Data resources will be provided separately on CD. Data resources for Chesterfield Limited AASF include:

Stormwater Pollution Prevention Plan

2015 Stormwater Pollution Prevention Plan for Chesterfield County Airport

Environmental Data Resources, Inc.™ Geocheck Report

• 2019 Environmental Data Resources, Inc™. Geocheck Report for Chesterfield Limited AASF, VA

Miscellaneous Data Resources

- 2013 Chesterfield Limited AASF Deed of Lease No. L04474
- 2013 Environmental Condition of Property Report, Phase I Environmental Site Assessment for the Proposed VAARNG Aviation Detachment, Office/Hangar Space, Chesterfield County Airport
- 2018 Environmental Condition of Property Report, Phase I Environmental Site Assessment for the Lease Renewal of the VAARNG Aviation Detachment Office/Hangar Space, Chesterfield County Airport



STORMWATER POLLUTION PREVENTION PLAN FOR CHESTERFIELD COUNTY AIRPORT

Chesterfield County
Department of General Services
Environmental Division

CHESTERFIELD COUNTY



STORM WATER PLAN - AIRPORT MANUAL CHANGE LOG

Date	Revision Description	Page #	Editor
06/23/06	Changed Plan # from 0004 to 0009 for EMS folder order	All	JTH
06/23/06	Non-storm water inspection requirement	6	JTH
06/23/06	Sump and dump procedure update	9	JTH
06/23/06	Completed waste fuel disposal implementation	16	JTH
06/23/06	Updated waste fuel disposal plan	17	JW/JT
06/23/06	Change log reference	19	JTH
06/23/06	Changed Bob Cheatham to Jeremy Wilkinson	WS1	JTH
06/23/06	Provided space for nine (9) outfalls	WS2	JTH
06/23/06	Updated Pollution Source Table	WS5	JTH
06/23/06	Updated BMP ID Table	WS5A	JTH
06/23/06	Updated BMP Implementation Table	WS6	JTH
07/23/07	Updated Background	3	RW/JH
07/23/07	Updated Existing Environmental Plans	4	RW/JH
07/23/07	Updated Facility Assessment Updated Facility Assessment	5	
07/23/07	Updated SARA Title III Section 313	6	RW/JH
			RW/JH
07/23/07	Updated Storm Water Drainage	6 7	RW/JH
07/23/07	Updated Oufalls 4,6,7 and 8	·	RW/JH
07/23/07	Updated Polluntant Sources and Risk to Storm Water	8 & 9	RW/JH
07/23/07	Updated Authorized Signatory(s)	19	RW/JH
07/23/07	Deleted Assigned Staff, Added Chris Workman New version of the from inserted.	App.B/WS1	RW/JH
07/23/07		App.B/WS3	JTH
03/27/08	Update Table of Contents	1	CAW
03/27/08	Update sentences to be passive.	2	CAW
03/27/08	Update sentences to be passive.	4	CAW
03/27/08	Update sentences to be passive. Update sentences with more current information.	6	CAW
03/27/08	Update sentence with more current information.	9	CAW
03/27/08	Update sentences to reflect most recent employee training procedures.	12	CAW
03/27/08	Update sentences to reflect most current inspection intervals.	13	CAW
03/27/08	Update sentences to reflect employee training records retention procedure.	14	CAW
03/27/08	Update Engineer information	17	CAW
03/27/08	Update revision footnote.	1-17	CAW
03/27/08	Revise figures to incorporate uniform Title Blocks and to reflect updates.	all Figures	CAW
03/27/08	Add perspective view of outfalls.	Fig. 4	CAW
03/27/08	Revise Title Blocks to a more-simplified format.	All App.B/WS	CAW
03/27/08	Delete. Not necessary or combined with another form.	App. B/WS3	CAW
03/27/08	Delete. Not necessary or combined with another form.	App. B/WS5A	CAW
03/27/08	Delete. Not necessary or combined with another form.	App. B/WS7	CAW
03/27/08	Revise Title Block to a more-simplified format.	App. C	CAW
03/27/08	Revise to reflect combination of Outfalls 4 and 5.	App. D	CAW
03/27/08	Delete. This form has been combined with another form.	App. E	CAW
03/27/08	Revise to incorporate most recent training session sign-in sheet.	App. F	CAW
03/27/08	Revise to incorporate most recent SWPPP inspection reports.	App. G	CAW
03/27/08	Revise to incorporate most recent SWPPP annual compliance reports.	App. H	CAW
03/18/09	Added "APSW-4", "Airport Maintenance Shop", "Facility Book"	Stormwater Plan Distribution	CAW
03/18/09	Updated the page date to reflect currect Plan certification date	2 of 18	CAW
03/18/09	Signed and sealed the document	2 of 18	CAW
03/18/09	Updated the page with current signature of the Airport Manager	3 of 18	CAW
03/18/09	Updated the page with current date	3 of 18	CAW

CHESTERFIELD COUNTY



STORM WATER PLAN - AIRPORT MANUAL CHANGE LOG

Date	Revision Description	Page #	Editor
03/18/09	Changed "Worksheet 3 in Appendix B" to "Appendix C"	8 of 18	CAW
03/18/09	completed."	8 of 18	CAW
03/18/09	Inserted the phrase "The only two known non-storm water discharges into the storm sewer system at the Chesterfield County Airport are the occasional fire hydrant flushings and the closed-system ground water sump pump in the Terminal Building." Deleted the entire exisiting sentence.	8 of 18	CAW
03/18/09	residue."	9 of 18	CAW
03/18/09	Added "This procedure is known as Sump and Dump." after "waste hauling company."	11 of 18	CAW
03/18/09	Replace the phrase "(see example on pg. 14)" with "(see Appendix D)"	12 of 18	CAW
03/18/09	"spills"	12 of 18	CAW
03/18/09	Changed the phrase "Appendix E" to "Appendix G"	12 of 18	CAW
03/18/09	Deleted the phrase "during the month of January"	14 of 18	CAW
03/18/09	Changed the phrase "Worksheet 5A" to "Appendix B, Worksheet 3"	14 of 18	CAW
03/18/09	Changed the phrase "Worksheet 6" to "Appendix B, Worksheet 3" in three places	15 of 18	CAW
03/18/09	Deleted the phrase "(3-27-2008)"	15 of 18	CAW
03/18/09	Deleted the phrase " These worksheets should be updated as necessary."	15 of 18	CAW
03/18/09	Deleted the whole sentence "This plan has been developed (3-27-2008)."	16 of 18	CAW
03/18/09	Inserted the phrase "Sump and Dump" after the phrase "during pre-flight checks."	16 of 18	CAW
03/18/09	Changed the phrase "Appendix H" to "Appendix E"	17 of 18	CAW
03/18/09	Inserted updated Figure 4	Figures	CAW
03/18/09	Updated Appendix B, Worksheet #1 to replace Charles Dane with Thomas J. Trudeau	App. B, Wksht. 1	CAW
03/18/09	Deleted the 1000-Gallon Virginia State Police Jet A Fuel AST from list.	App. B, Wksht. 2	CAW
03/18/09	Changed heading of Appendix B, Worksheet #6 to Worksheet #3	App. B, Wksht. 3	CAW
03/18/09	Updated completion dates on the Fuel Testing and Monitoring tasks	App. B, Wksht. 3	CAW
03/18/09	Updated the Non-Storm Water Discharge Assesstment and Certification worksheet	App. B, Wksht. 4	CAW
03/18/09	residue."	App. B, Wksht. 5	CAW
03/18/09	sewer"	App. B, Wksht. 5	CAW
03/18/09	Added the word "none" and the initials "JTH"	App. C	CAW
04/14/10	Remove Airport Maintenance Shop from SWPPP distribution	Inner notebook pocket	CAW
04/14/10	Updated Owner's Address	1 of 18	CAW
04/14/10	Signed and sealed the document	2 of 18	CAW
04/14/10	Updated the page with current signature of the Airport Manager	3 of 18	CAW
04/14/10	Changed "periodic" to "monthly"	6 of 18	CAW
04/14/10	Changed "emergence" to "emergency"	10 of 18	CAW
04/14/10	Added "One diesel fuel emergency generator base tank (50 gallons) adjacent to the terminal building;"	10 of 18	CAW
04/14/10	Added "a diesel fuel emergency generator base tank (50 gallons) adjacent to the terminal building,"	10 of 18	CAW
04/14/10	Changed "three ASTs" to "four ASTs"	10 of 18	CAW
04/14/10	Delete the phrase, "Records of preventive maintenance are maintained in Appendix G."	12 fo 18	CAW
04/14/10	Deleted last paragraph	14 of 18	CAW
04/14/10	Added the sentence "Advanced BMPs for this facility are listed in Appendix B, Worksheet 3." to the last paragraph.	14 of 18	CAW
04/14/10	Added the word "none" and the initials "JTH"	App. C	CAW
04/14/10	Added "Spill Containment around the Fuel Farm", "Tank Sump Reclaimers", and "Sump and Dump Procedure" to the Advanced BMPs Implementation worksheet.	App. B, Wksht. 3	CAW
04/14/10	Updated the Non-Storm Water Discharge Assesstment and Certification worksheet	App. B, Wksht. 4	CAW

CHESTERFIELD COUNTY



STORM WATER PLAN - AIRPORT MANUAL CHANGE LOG

Date	Revision Description	Page #	Editor
04/18/11	Signed and sealed the document	2 of 18	CAW
04/18/11	Updated Engineer's cell number	2 of 18	CAW
04/18/11	Updated the page with current signature of the Airport Manager	3 of 18	CAW
04/18/11	Updated paragraph to include most recent inventory of stored materials	6 of 18	CAW
04/18/11	Updated paragraph to include most recent inventory of stored materials	7 of 18	DSL
04/18/11	Updated the paragraph to include a description of the lastest spill.	8 of 18	CAW
04/18/11	Updated the paragraph to include lastest inspection observations.	8 of 18	CAW
04/18/11	Updated paragraphs to include most recent inventory of stored materials	10 of 18	CAW
04/18/11	Updated paragraph to include most recent inventory of stored materials	11 of 18	CAW
04/18/11	Updated Worksheet #2 to enter two Jet A Fuel 12,000 gallon USTs as separate entries.	App. B, Wksht. 2	CAW
04/18/11	Updated Worksheet #2 to enter Jet A Fuel 2000 gallon truck as separate entry.	App. B, Wksht. 2	CAW
04/18/11	Updated Worksheet #2 to enter Jet A Fuel 2500 gallon truck as separate entry.	App. B, Wksht. 2	CAW
04/18/11	Updated Worksheet #2 to include a past spill for Jet A Fuel 2000 gallon truck.	App. B, Wksht. 2	CAW
04/18/11	Added 2000 gallon AV Gas Truck to Material Inventory	App. B, Wksht. 2	CAW
04/18/11	Added 75 gallon Diesel Fuel Mobile Tank to Material Inventory	App. B, Wksht. 2	CAW
04/18/11	Added 300 gallon Used Cooking Oil AST to Material Inventory	App. B, Wksht. 2	CAW
04/18/10	Updated the Non-Storm Water Discharge Assesstment and Certification worksheet.	App. B, Wksht. 4	CAW
04/18/11	Added words "Spill of 30 to 80 gals. of Jet A Fuel from truck."	App. C	CAW
04/18/11	Added the words "Spill was promptly cleaned up, with no exterior releases."	App.C	CAW
04/18/11	Added the words "Environmental Incident Report Form attached."	App. C	CAW
04/18/11	Added initials "JTH"	App. C	CAW
		Throughout	
04/29/14	Changed Airport Manager title to Airport Administrator	Plan/Appendices/Wkshts	JMO
		Throughout	
04/29/14	Updated Airport Phone Numbers	Plan/Appendices/Wkshts	JMO
		Throughout	
05/01/14	Updated Tank Information	Plan/Appendices/Wkshts	JMO
05/12/14	Updated Plan	Pages 5, 8, 10, & 11	JMO
01/12/15	Added Cover Page	Cover Page	MEE
01/12/15	Added Acroynm List	Acronym list page	MEE
01/12/15	Added Table of Contents	Table of Contents Page	MEE
01/12/15	Updated worksheets in Appendix B	Appendix B	MEE
01/12/15	Change title of "Airport Administrator" to "Airport Manager"	Throughout	MEE
01/12/15	Add plan certification and delegated authority section	Page 2	MEE
01/12/15	Revised Engineer's Certification Statement	Page 3	MEE
01/12/15	Revised the name of the certifying professional engineer	Page 3	MEE
01/12/15	Revised the dates of the applicable regulations and general permit	Throughout	MEE
01/12/15	Replaced the term "BMP" to "control measure" as used by the VPDES Permit	Throughout	MEE
01/12/15	Added impervious area for facility	Page 5	MEE
	Revised narrative to further define the nature of the drainage patterns (particularly in the	Page 5	MEE
01/12/15	northwest corner of property)		
01/12/15	Revised the date of the most recent facility assessment	Page 7	MEE
01/12/15	Revised narrative to include site map requirements of the VPDES Permit	Page 7	MEE
	Revised narrative to further define the allowable non-stormwater discharges that occur at	Page 8	MEE
01/12/15	the facility		
01/12/15	Revised the number and locations of outfalls that exist at the facility	Page 9 and site map	MEE
01/12/15	Updated potential pollutant sources to better identify inventory and those exposed to	Page 11	MEE
01/12/15	stormwater) (EE
01/12/15	Added language emphasizing the importance of eliminating and minimizing exposure Updated elements to be covered during employee training	Page 13	MEE
01/12/15	Added language emphasizing the importance of dust suppression and vehicle tracking	Page 15	MEE
01/12/15		Page 15	MEE
01/12/15	Added Section 6 Routing Quarterly Facility Inpsections	Page 16	MEE
01/12/15	Added benchmark monitoring of outfalls semi-annually	Page 17	MEE
01/12/15	Updated monitoring types to include benchmark and TMDL monitoring	Page 18	MEE
01/12/15	Updated the trigger for performing outfall monitoring to measurable storm event	Page 18	MEE
01/12/15	Added "Comprehensive" Changed "two weeks" to "20 days" and "two weeks" to "60 days"	Page 22	MEE
01/12/15	Changed "two weeks" to "30 days" and "twelve weeks" to "60 days"	Page 22	MEE
01/12/15	Revised the timeframe for record retention to 3 years	Page 23	MEE

ACRONYMS

AST aboveground storage tank

AVGAS aviation gasoline

BMP Best Management Practice CFR Code of Federal Regulations

CSCE Comprehensive Site Compliance Evaluation

DA Dominion Aviation

DEQ Virginia Department of Environmental Quality

DMR Discharge Monitoring Report
DOT Department of Transportation

DRO diesel range organics

EPA Environmental Protection Agency

FBO fixed base operator GRO gasoline range organics

MARV mobile aviation-refueling vehicle
MS4 municipal separate storm sewer system

NPDES National Pollutant Discharge Elimination System OSHA Occupational Safety and Health Administration

SDS Safety Data Sheets

SIC Standard Industrial Classification

SPCC Spill Prevention Control and Countermeasure

SWPPP Stormwater Pollution Prevention Plan

TMDL Total Maximum Daily Load

TN Total Nitrogen TP Total Phosphorus

TPH Total Petroleum Hydrocarbons UST underground storage tank VAC Virginia Administrative Code

VPDES Virginia Pollutant Discharge Elimination System

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	VISUAL INSPECTION OF AREAS	
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Figure 3 – Detailed Site Plan

APPENDICES

Appendix A –Industrial Stormwater General Permit (# VAR051129) and Registration Statement Appendix B – Worksheets

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Worksheet 2 – Material Inventory Exposed to Stormwater

Worksheet 3 – Implementation

Worksheet 4 – Non-Stormwater Discharge Assessment and Certification

Worksheet 5 – Potential Pollutant Sources Exposed to Stormwater

Appendix C – Spills & Leaks

Appendix D – Quarterly Outfall Monitoring Reports

Appendix E – Quarterly Routine Facility Inspection Reports

Appendix F – Stormwater Training Documentation

Appendix G – Annual Comprehensive Site Compliance Evaluation Reports

Appendix H – Completed DMRs, Laboratory Results and Other Documentation



DOROTHY JAECKLE
Bermuda District

Chesterfield County, Virginia

James J. L. Stegmaier, County Administrator 9901 Lori Road – P.O. Box 40 – Chesterfield, VA 23832-0040 Phone: (804) 748-1211 – Fax: (804) 717-6297 – Internet: chesterfield.gov

BOARD OF SUPERVISORS
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Matoaca District
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DANIEL A. GECKER
Middothian District
JAMES M. "Jim" HOLLAND

January 21, 2015

Joy D. Abel
Water Permit Writer
Commonwealth of Virginia
Department of Environmental Quality
Piedmont Regional Office
4949 A Cox Road
Glen Allen Virginia 23060

RE: Delegation of Signature Authority for Discharge Monitoring Reporting associated with Chesterfield County Airport Coverage under the VPDES Industrial Stormwater General Permit, Registration # VAR051129.

Dear Ms. Abel:

This letter duly authorizes Dr. Sheryl D. Bailey, Deputy County Administrator, signature authority for Discharge Monitoring Reporting associated with Chesterfield County Airport Coverage under the VPDES Industrial Stormwater General Permit, Registration # VAR051129.

Sincerely,

James J. L. Stegmaier
County Administrator

c: Dr. Sheryl D. Bailey, Deputy County Administrator Rob C. Key, Director of General Services Patrick Driscoll, Chesterfield County Airport Administrator Jeff T. Howard, Chesterfield County Environmental Manager Jason E. St. Clair, Chesterfield County Environmental Officer



Chesterfield County, Virginia

Joseph P. Casey, Ph.D., County Administrator 9901 Lori Road – P.O. Box 40 – Chesterfield, VA 23832-0040 Phone: (804) 748-1211 – Fax: (804) 717-6297 – Internet: chesterfield.gov

BOARD OF SUPERVISORS

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JAMES M. "Jim" HOLLAND

Dale District

LESLIE A. T. HALEY

Midlothian District

November 7, 2016

Joy D. Abel
Water Permit Writer
Commonwealth of Virginia
Department of Environmental Quality
Piedmont Regional Office
4949 A Cox Road
Glen Allen Virginia 23060

RE: Delegation of Signature Authority for Discharge Monitoring Reporting associated with

Chesterfield County Airport Coverage under the VPDES Industrial Stormwater General

Permit, Registration # VAR051129.

Dear Ms. Abel:

This letter duly authorizes Mr. Clay Bowles, the Director of General Services, signature authority for Discharge Monitoring Reporting associated with Chesterfield County Airport Coverage under the VPDES Industrial Stormwater General Permit, Registration # VAR051129.

Sincerely,

Joseph P. Casey, Ph.D. County Administrator

Cc: Clay Bowles, Director of General Services

Patrick Driscoll, Chesterfield County Airport Administrator Jeff T. Howard, General Services - Environmental Manager Jason E. St. Clair, General Services - Environmental Officer

PLAN CERTIFICATION AND DELEGATED AUTHORITY

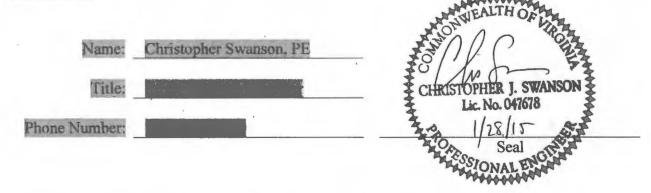
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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."

"As the County Administrator for Chesterfield County, I am authorized to make management decisions which govern the operation of the regulated facility including initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations. As such, I have delegated certification and signatory authority for all reports required by the General Permit for Stormwater Discharges Associated with Industrial Activity (General Permit No. VAR051129) for the Chesterfield County Airport, and other information requested by the Board, to Dr. Sheryl D. Bailey, the Deputy County Administrator."

			Phone	
Name	Authorized Signatory	Title	Number	Date
James J. L. Stegmaier		County Administrator	(804) 748-1211	

ENGINEER'S CERTIFICATION

This document was prepared under a contract with Chesterfield County for assistance with implementation of the VPDES Permit. I certify that this Stormwater Pollution Prevention Plan and all attachments were prepared under my supervision and in accordance with the VPDES Permit. Based on my inquiry of the person or person directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.



APPROVAL OF SWPPP PLAN BY OPERATOR

The operators must complete a review and evaluation of the following SWPPP plan annually. This SWPPP plan must be amended or updated whenever there is a change in the facility design, construction, operation or maintenance that affects the facility's potential for having pollutants enter stormwater runoff.

I hereby certify that I have examined this plan, and being familiar with the facility, concur with the provisions and procedures discussed herein.

Patrick Duscall
Airport Manager

Date

STORMWATER POLLUTION PREVENTION PLAN

PURPOSE

The purpose of the Stormwater Pollution Prevention Plan (SWPP) is to meet the requirements of the U.S. Environmental Protection Agency's (EPA) and Virginia Department of Environmental Quality's (DEQ) Virginia Pollutant Discharge Elimination System (VPDES) program requiring general permits for stormwater discharges associated with industrial activities. The SWPPP establishes policy, responsibilities, procedures, and technical guidance to reduce the potential for pollutants to enter stormwater runoff.

The plan is available for on-site inspection during normal working hours. Please contact the Facilities Maintenance Supervisor at the phone number listed below.

FACILITY OWNER/OPERATOR

OWNER: Chesterfield County Government

OWNER ADDRESS: 6751 Mimms Loop

P.O. Box 40

Chesterfield, Virginia 23832-0040

OPERATOR: Chesterfield County, Virginia Department of General Services

NAME OF FACILITY: Chesterfield County Airport

PHONE NUMBERS: (804) 768-7700, Airport Manager

(804) 768-7722, Facilities Maintenance Supervisor (804) 271-7793, Dominion Aviation Services (FBO)

1.0 INTRODUCTION

This Stormwater Pollution Prevention Plan (SWPPP) has been developed for the Chesterfield County Airport in Chesterfield, Virginia, based on an initial SWPPP prepared by EarthTech in June 1997.

The purpose of the SWPPP is to meet the requirements of the U.S. EPA and DEQ Pollutant Discharge Elimination System program requiring general permits for stormwater discharges associated with industrial activities. The SWPPP establishes policy, responsibilities, procedures, and technical guidance to reduce the potential for pollutants to enter stormwater runoff.

Regulations and Compliance

Section 402(p) of the EPA's Clean Water Act requires operators of facilities which discharge stormwater associated with industrial activity to obtain a discharge permit to control the quality of stormwater runoff.

Implementing regulations promulgated by EPA and DEQ under 40 CFR Parts 122-124 and 9 VAC 25-151, respectively, require facilities to submit a NPDES (or VPDES, in Virginia) permit registration statement and to develop a SWPPP. The Virginia Water Control Board adopted revisions to Virginia's Industrial Stormwater General Permit regulation (9 VAC 25-151) on May 8, 2014, which became effective July 1, 2014. The discharge regulations and resulting SWPPP are intended to characterize potential pollutants exposed to stormwater and implement control measures, including Best Management Practices (BMPs), which are designed to minimize pollution at its source.

SWPPP Overview

This SWPPP was prepared in accordance with EPA's Guidance Document entitled Stormwater Management for Industrial Activities-Developing Pollution Prevention Plans and Best Management Practices, dated September 1992 and DEQ's most recent regulations (9 VAC 25-151-10). The worksheets, figures, and regulations referred to in this SWPPP are based on those developed by the EPA.

The general SWPPP process consists of the following topics:

- Planning and Organization
- Assessment
- Control Measure Selection, including BMPs and Plan Design
- Implementation
- Evaluation, Monitoring and Site Inspection

These topics are covered in detail in the sections that follow.

2.0 BACKGROUND

The Chesterfield County Airport is owned and administratively operated by the Chesterfield County Department of General Services. The facility address is 7511 Airfield Drive. The site is near the northwest corner of State Routes 288 and 10 in Chesterfield County, Virginia. Figure 1 is a location and topographic map for the site.

The airport property comprises approximately 556 acres, of which approximately 54 acres is considered impervious area, and includes the Main Terminal building, the maintenance hangar for the fixed base operator (FBO), Dominion Aviation Services (DA), two DA private service hangars, two National Guard hangars, a Virginia State Police hangar, a civil air patrol hangar, six storage hangars (called T-Hangars), four maintenance support buildings, a wash rack and a fuel farm, which includes an asphalt bermed loading area. Parking areas, driveways, the tarmac in front of the service hangars and the aircraft runway are asphalt/concrete paved. Open space surrounding and between the tarmac and runway are grass covered. A perimeter chain link fence generally encloses the airport operations. Surrounding land to the north and east, outside the perimeter fence but on airport property, are forested and/or wetlands. The property boundary is presented as part of Figure 2.

Adjacent properties to the south and west of the airport are occupied by the Chesterfield County Airport Industrial Park. Adjacent properties to the east and north of the airport are generally forested with light to medium residential development. Chesterfield County Fire Station No. 15 is located along the eastern side of Airfield Drive as it leads to the airport, but is administered and maintained separately from the airport and is therefore excluded from this plan.

Reedy Creek, the receiving waters for the majority of stormwater runoff generated at the airport, traverses the property from southwest to northeast to the south of the runway. Some stormwater from the northeast portion of the airport property drains to the east through wetlands to Cosby Lake and ultimately Kingsland Creek. Some stormwater from the northwest portion of the airport property drains through wetlands to Licking Creek, which leads to the north into Falling Creek. All stormwater leaving the property eventually discharge into the James River.

3.0 PLANNING AND ORGANIZATION

Chesterfield County has identified the team that is responsible for the implementation of the SWPPP.

Pollution Prevention Team

The SWPPP team for the facility will be responsible for overseeing stormwater pollution prevention activities. The SWPPP identifies points of contact and individuals that have a role in the facility's pollution prevention plan. The SWPPP team members and their duties are presented in Worksheet 1 in Appendix B.

Responsibilities of the Team

The team is the driving force behind future development, implementation, maintenance, and revision of the SWPPP. The team will perform annual evaluations to measure the effectiveness of the SWPPP. To ensure effectiveness, the team will document changes to facilities operations and determine if changes need to be made within the SWPPP.

Existing Environmental Plans

A Spill Prevention, Control, and Countermeasure (SPCC) Plan was developed for the Chesterfield County Airport by ATEC Associates Inc., dated September 1993, and is revised and updated on an annual basis.

The SPCC Plan for the facility refers to monthly inspections and training to prevent oil spills, and provides specific guidance on managing a spill if one occurs. Spill kits are maintained at the FBO maintenance hangar, at the fire station, and at the airport's Fuel Farm. Fire Station personnel as well as a county emergency response contractor are also available in the event airport personnel cannot manage a spill. References to the SPCC Plan will be made in future sections of the SWPPP where appropriate.

4.0 FACILITY ASSESSMENT

A facility assessment of potential pollutants exposed to stormwater from the airport property (based on a site inspection, interviews with county personnel, and a review of site operations conducted in November and December 2014) has been developed. These assessments included:

- Development/revision of a drainage map;
- Inventory of materials exposed to stormwater;
- Description of exposed significant materials;
- List of significant spills and leaks;
- Consideration of non-stormwater discharges;
- Summarization of potential pollutant sources and risks.

Site Map

Figure 3 presents a detailed drainage and layout diagram for the facility that identifies the following as required by the permit:

- The boundaries of the property and the size of the property (in acres);
- The location and extent of significant structures and impervious surfaces (roofs, paved areas and other impervious areas);
- Locations of all stormwater conveyances including ditches, pipes, swales, and inlets, and the directions of stormwater flow using arrows to show which ways stormwater will flow;
- Locations of all existing structural and source control measures, including BMPs;
- Locations of all surface water bodies, including wetlands;
- Locations of potential pollutant sources;
- Location of any storage piles containing salt used for deicing or other commercial or industrial purposes;
- Locations where significant spills or leaks have occurred, if any;
- Locations of activities and areas that have potential to convey pollutants to stormwater where such activities are exposed to precipitation;
- Location of the stormwater outfall and an approximate outline of the area draining to the outfall, and location of municipal storm sewer systems, if the stormwater from the facility discharges to them;
- Location and description of all non-stormwater discharges;
- Locations and sources of runon to the site from adjacent property, where the runon contains significant quantities of pollutants; and
- Locations of all stormwater monitoring points.

Material Inventory

An updated and complete material inventory of all materials kept on site can be found in the SPCC Plan. The list of chemicals, products, raw materials, and waste products exposed to stormwater that may be used, stored or produced onsite is presented in Worksheet 2 in Appendix B. This list of substances includes materials that could be considered a pollutant if introduced into the stormwater drainage system-either directly or by stormwater runoff contact. The material inventory exposed to stormwater for the Chesterfield County Airport includes jet fuel, aviation gas, gasoline, diesel fuel, and used cooking oil.

SWPPP planning requires the development of a list of significant materials that were exposed to stormwater during the past three years and/or are currently exposed. Exposure includes any lack of complete shelter from rainfall contact even if the materials are stored within a pile, drum, tank, etc. *Significant materials*, as defined in 40CFR Part 122.26(b)(12), are substances related to industrial activities such as process chemicals, raw materials, petroleum products, pesticides, fertilizers, and waste products. There are no significant exposed materials identified in this plan. As discussed further below, there are minor amounts of stored materials at the Chesterfield County Airport that may be exposed to stormwater, such as deicing solution and AVGAS or jet fuel from pre-flight tests; however, these are considered as being used in *de minimus* quantities and are not judged to be significant exposed materials.

Significant Spills and Leaks

A significant spill is a release of a substance in excess of a reportable quantity. Reportable quantity levels are set by the EPA and Virginia Department of Environmental Quality and vary by material. Significant spills and leaks are to be documented and records maintained with this plan. Appendix C provides a form to document spills and leaks.

Airport personnel report that there has not been a significant spill or leak at the facility within the past three years. Significant spills and leaks will be documented in Appendix C. If a spill were to occur, proper control and countermeasures will be implemented as described in the SPCC Plan kept on site.

Non-Stormwater Discharge Assessment

During the site inspection on December 5, 2014, all facility outfalls were observed. No rainfall occurred during or immediately prior to the inspection; however, outfalls 2, 6, and 7 had water present at the time of the inspection. The inspector did not observe any conditions indicative of a non-stormwater discharge, such as color, floating or suspended material, a petroleum sheen, foam, etc., suggesting that the source of the water was surface or ground water.

Inspections required to ensure compliance with the non-stormwater discharge requirements are being performed by Chesterfield County and/or airport personnel (or a pre-designated, qualified consultant) using the non-stormwater inspection and certification forms (see Worksheet 4 in Appendix B).

The following non-stormwater discharges are authorized by the Permit:

- a. Discharges from fire fighting activities;
- b. Fire hydrant flushings;
- c. Potable water including water line flushings;
- d. Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;
- e. Irrigation drainage;
- f. Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling;
- g. Routine external building washdown that does not use detergents;

- h. Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);
- i. Uncontaminated ground water or spring water;
- j. Foundation or footing drains where flows are not contaminated with process materials; and
- k. Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but not intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains).

The following table describes the allowable non-stormwater discharges identified at the facility:

Summar	v of Allowable	Non-Stormwater	Discharges	Identified at the	e Facility

Type of Allowable Non-Stormwater Discharge	Location at Facility
Air Conditioning Condensate Drains	Throughout
Foundation Sump Pump Drain	North Side of Terminal Building
Fire Hydrants	Throughout
Water Spigots	Throughout

NOTE: Spigots used for aircraft or vehicle washing are not allowable discharges. At no time should a spigot be used to wash vehicles other than at the vehicle wash rack.

All other non-stormwater discharges are not authorized and shall either be eliminated or covered under a separate VPDES permit.

The following non-stormwater discharges are specifically not authorized by this permit:

- Aircraft, ground vehicle, runway and equipment washwaters
- Dry weather discharges of deicing and anti-icing chemicals

Summary of Drainage and Pollutant Sources

Following is a brief description of the general drainage patterns and outfalls for the site and areas of concern for potential stormwater impacts.

Stormwater Drainage

Stormwater generally flows across the property and leaves the site as sheet flow into surrounding woodlands/wetlands to the north and east of the site or flows to one of seven outfall areas (see Figure 2). A description of the outfalls is as follows:

<u>Outfall 1</u>- This outfall consists of a grassy ditch that runs along the southwestern side of the runway. This grassy ditch receives runoff from the runway and grassy areas along the southwetern side of the runway. Outfall 1 discharges to a wetland area, or stormwater management area, located on the southwestern most portion of the airport property, which is also considered the headwater of Reedy Creek that flows across the southern portion of the property.

<u>Outfall 2</u>- This outfall consists of a 48-inch reinforced concrete pipe located at the southeastern end of the runway. It receives runoff from the runway and grass areas between the runways. It also receives runoff from the parking lots, apron, a subsurface drain system beneath the apron, hangar and other building roofs, and grass areas between the buildings as identified on Figure 2. Outfall 2 discharges directly into Reedy Creek.

Outfall 3- This outfall consists of an open channel along the fence line leading from near the fuel farm area into the adjacent wetlands along the southern side of Airfield Drive. It receives runoff from the fuel farm area, the wash rack pad, a portion of the apron north of the wash rack area, the parking lot to the north of the fuel farm, the state police aviation and civil air patrol building roofs, and grass areas surrounding the apron, parking lot, buildings, and fuel farm areas. The main source of stormwater is runoff from the paved areas surrounding the fuel farm, wash rack, apron and buildings. Outfall 3 discharges to a wetland area in the woods southeast of the fuel farm area that ultimately drains to Reedy Creek. The wetland area serves as a vegetative buffer that would likely filter pollutants from the stormwater before reaching Reedy Creek. There is a pipe leading into the channel to Outfall 3 from the oil/water separator located at the fuel farm that has been retrofitted with organic mulch to reduce trace petroleum residue. This pipe has a gate valve that is only opened by airport personnel after a storm event to ensure there is no residual petroleum entering the channel.

Outfall 4- This outfall consists of a grassy ditch located at the northwest corner of the runway. This grassy ditch receives runoff from the runway and grassy areas along the northern side of the runway. Outfall 4 discharges to a wetland area located in the northwestern most portion of the airport property into Licking Creek, which leads to the north into Falling Creek. The wetland area serves as a vegetative buffer that would likely filter pollutants from the stormwater before reaching Licking Creek, or Falling Creek.

Outfall 5- This outfall, which includes riprap lined outfall protection, is located at the end of the concrete culvert that runs in an "L" shape from the northeastern portion of the airport toward the eastern side of the airport property (see Figure 2). This outfall drains to wetlands and woodlands surrounding the northern and eastern sides of the airport property, which ultimately drain to Reedy Creek and possibly Kingsland Creek via Crosby's Lake. The woodland/wetland area serves as a vegetative buffer that would likely filter pollutants from the stormwater before reaching Kingsland or Reedy Creek.

Outfalls 6- This outfall consists of a 48-inch reinforced concrete pipe that receives runoff, via drop inlets, from a majority of the areas surrounding the T Hangars, a small portion of the apron near the Main Terminal Building, a majority of the parking lots to the north and east of the Main Terminal Building, and the basement sump pump from the Main Terminal Building. Outfall 6 drains to wetlands and woodlands surrounding the northern and eastern sides of the airport

property, which ultimately drain to Reedy Creek and possibly Kingsland Creek via Crosby's Lake. The woodland/wetland area serves as a vegetative buffer that would likely filter pollutants from the stormwater before reaching Kingsland or Reedy Creek.

Outfall 7- This outfall consists of a 48-inch reinforced concrete pipe that receives runoff, via drop inlets, from the areas surrounding the southeastern T Hangars. This outfall drains to woodlands and wetlands surrounding the eastern side of the airport property, which ultimately drains to Reedy Creek and possibly Kingsland Creek via Crosby's Lake. The woodland/wetland area serves as a vegetative buffer that would likely filter pollutants from the stormwater before reaching Kingsland or Reedy Creek.

Stormwater not intercepted by the storm sewer systems that discharge to Outfalls 1 through 7, drains from the facility as overland flow to grass areas and wetlands surrounding the airport, which ultimately drain to Reedy and/or Kingsland Creek. Some stormwater from the northwest portion of the airport property drains through wetlands to Licking Creek, which leads to the north into Falling Creek. All stormwater leaving the property eventually discharge into the James River. According to airport personnel, there are no floor drains inside airport buildings that discharge to the storm sewer. There is one sump pump located in the Main Terminal Building that discharges to the grassy ditch to the north of the Main Terminal Building. The sump water flows through the ditch into the adjacent stormwater outfall 7.

Potential Pollutant Sources Exposed to Stormwater

Worksheet 5 in Appendix B lists the areas at the facility where pollutants may potentially discharge into the stormwater runoff system due to contact with stormwater runoff. This worksheet and the summary below were compiled from field reconnaissance, staff interviews, and a review of existing facility environmental plans.

Potential pollutant sources exposed to stormwater at the facility are as follows:

- Piping for the two Jet A fuel USTs (both 12,000 gallons) and one AVGAS UST (12,000 gallons) at the fuel farm;
- Trash dumpsters located at the fuel farm;
- One gasoline AST (500 gallons) at the fuel farm;
- One Used Cooking Oil AST (300 gallons) located at the fuel farm near the dumpsters;
- One diesel fuel emergency generator base tank (250 gallons) adjacent to the electrical vault;
- One diesel fuel emergency generator base tank (50 gallons) adjacent to the terminal building;
- Aircraft and vehicle washing at the wash rack;
- Two Jet A fuel (2,200/5,000 gallons each) and one AVGAS (1,000 gallons) mobile aviation refueling vehicles for transferring fuel to aircraft;
- One Diesel fuel (2,000 gallons) stationary tank truck provides diesel fuel to ground equipment; and
- Impervious areas of airport including the paved parking lots, tarmac and runway, and the paved access driveways.

There are three 12,000-gallon USTs located at the fuel farm area. Two contain Jet A fuel and the third contains AVGAS. The dispenser and tank fill ports are located aboveground on a concrete

pad that is graded to drain spills and releases, as well as stormwater, to a drop inlet within the fuel farm's bermed loading area. The drain includes a normally closed gate valve connected to an adjacent below ground 1000-gallon oil/water separator. This valve is manually opened after rain events once it is determined there is no oil sheen observed on the collected water. Oil is pumped, as needed, from the separator tank for off-site disposal. Treated water from the oil/water separator is discharged into Outfall 3. Potential contact with stormwater could arise from transfer operations at the fuel farm or a bypass of the oil/water separator. This pollutant source area is covered by the existing SPCC Plan.

There are four ASTs at the airport exposed to stormwater, including a 250-gallon diesel fuel emergency generator base tank adjacent to the electrical vault, a diesel fuel emergency generator base tank (50 gallons) adjacent to the terminal building, one 500-gallon gasoline tank inside the fuel farm, and one 300-gallon Used Cooking Oil tank located in the Fuel Farm near the dumpsters. The diesel fuel and gasoline ASTs are both double-walled tanks and are situated on a concrete slab. Potential contact with stormwater could arise from fuel handling operations. These pollutant source areas are covered by the existing SPCC Plan.

Aircraft and vehicle washing using detergent (biodegradable) and water is performed on a concrete pad at the southern end of the tarmac. The pad is sloped to the center where a drain inlet is located that permits discharge of the wash water through a grit separator into the sanitary sewer system. Under normal operating conditions, when no washing is being performed, the drain inlet is directed to discharge into the adjacent grass ditch that leads to a natural wetland drainage area to the south towards Reedy Creek. When washing is performed, the valve is opened so that all flow is directed into the sanitary sewer.

There are five mobile aviation-refueling vehicles (MARV) in use at the airport: one 2,000-gallon Diesel Fuel MARV, one 2,200-gallon and one 5,000-gallon Jet A MARV, and one 1,000-gallon AVGAS MARV. These are typically parked during the day at the north end of the airport west of the FBO Building near the taxiway on a demarcated area of the pavement. The vehicles drive to the Private Corporate and T Hangars to transfer fuel to individual aircraft. Other parking areas include within the fuel farm's bermed loading area at night and/or behind Chesterfield County Fire Station No. 15. The facility also includes a 75-gallon equipment mobile refueler typically parked inside T Hanger "B". Potential contact with stormwater could arise from spills and releases during tank refilling and/or transfer operations. The MARVs are covered by the facility SPCC Plan.

Large portions of the airport, including the parking lots, tarmac, runway, taxiways, and driveways, are paved and are therefore impervious. These surfaces present a potential pollutant source from oil, grease, dirt, and sediment because numerous vehicles use these areas. Most impervious surfaces discharge to or eventually flow through grass ditches or vegetative buffers, which act as pollutant filters.

The facility is manned generally from 6:00 a.m. to 10:00 p.m., 365 days per year. Perimeter fencing is present around all critical areas, precluding access by the public. The site is illuminated with overhead and building-mounted light fixtures. The security systems in place are considered adequate to prevent vandalism or accidental releases of pollutants to stormwater runoff.

5.0 STORMWATER CONTROL MEASURES

Control measures, including BMPs, are measures used to prevent or control pollutants in stormwater discharges from the facility. Control measures are a broad class of measures and include processes, procedures, schedules of activities, prohibitions on practices, and other management practices to prevent or reduce the potential for pollution of stormwater runoff.

The following section describes *baseline and advanced* control measures that are to be implemented by the SWPPP. All control measures identified will be maintained in effective operating condition and will be observed at least annually during active operation (i.e., during a stormwater runoff event) to ensure that they are functioning correctly.

Baseline Control Measures

The baseline control measures that will be implemented are described below.

- Good Housekeeping;
- Eliminating and Minimizing Exposure
- Preventive Maintenance;
- Spill Prevention and Response;
- Sediment and Erosion Control;
- Management of Runoff;
- Dust Suppression and Vehicle Tracking of Industrial Materials;
- Employee Training; and
- Recordkeeping and Reporting.

Good Housekeeping

Good housekeeping practices will be used to promote a clean and orderly working environment. Poor housekeeping can result in more waste being generated than necessary and an increased potential for stormwater contamination. Poor housekeeping can also lead to accidents that might cause spills of significant materials. A checklist for housekeeping practices follows at the end of this section. The Facilities Supervisor will serve as the housekeeping coordinator. The following will be completed as part of Good Housekeeping procedures:

- Conducting a formal quarterly inspection using a checklist (see Appendix E) and maintaining a log of such inspections;
- Conducting an annual inventory of chemical substances currently used, stored or produced onsite;
- Maintaining a current file of Material Safety Data Sheets for chemical products used onsite; and
- Labeling of chemical containers in each building per OSHA, EPA, DOT or other applicable regulations.

Eliminating and Minimizing Exposure

Chesterfield County airport personnel have taken great strides to eliminate and/or minimize the likelihood of potential pollutant sources from being exposed to precipitation by storing materials inside structures and providing cover where appropriate. However, there are limited instances where fuels, dirt, sands, and other erodible materials are stored at the facility. Therefore, the

facility will continue to use its daily good housekeeping procedures to minimize the potential of these areas.

Preventive Maintenance

Preventive maintenance involves the regular inspection and testing of buildings, equipment and the stormwater management system. These inspections will identify conditions such as cracks or slow leaks, or other conditions which could cause breakdowns or failures resulting in the potential discharge of pollutants to storm sewers and/or surface waters. The preventive maintenance program at the facility includes the following:

- Maintaining an inventory of each facility/system/equipment that, upon failure, could result in leaks or spills of potential pollutants; and
- Conducting quarterly inspections of equipment that could results in leaks or spills, listing each facility/system/equipment inspected and any deficiencies noted.

Spill Prevention and Response

Spills and leaks are one of the largest industrial sources of stormwater pollution and, in most cases, are avoidable. Therefore, the facility will follow established standard operating procedures within the existing SPCC plan for safety and spill prevention, along with proper employee training, to reduce the potential for these accidental releases.

Sediment and Erosion Control

The property will be inspected for general drainage discharge patterns that may be affecting erosion over time and for the buildup of sediment in the stormwater management channels and culverts.

Management of Runoff

Traditional management practices used to reduce pollutants in stormwater runoff include:

- Maintaining grass and vegetative buffers surrounding facility;
- Spill management methods and materials as covered by the facility SPCC Plan;
- Inspection and maintenance of oil-water and grit separator; and
- Fuel transfer management: transfer allowed only during daylight hours; training required for transfer operations; personnel required to be present during all fuel loading/unloading; liquid level monitoring of tanks; operations covered by SPCC Plan.

At this facility, runoff is managed principally via culverts and open outfalls that discharge through the vegetated and grass buffers. These conveyances will be inspected quarterly and after major storm events to ensure proper operation.

Employee Training

Employee training is essential to effective implementation of the SWPPP. The purpose of a training program is to teach personnel at all levels of responsibility the components and goals of the SWPPP. Training records for personnel will be kept on file. Recommended training is listed in Section 6.0 of this plan. A summary of the required training is provided below:

- General Requirements and Purpose of SWPPP;
- Staff Responsibilities for Implementation of SWPPP;

- Spill Response (SPCC Plan): Standard Operating Procedures to Manage Spills; and
- Description of Control Measures, including BMPs: Good Housekeeping, Eliminating and Minimizing Exposure, Preventive Maintenance, Sediment and Erosion Control, Management of Runoff, Dust Suppression and Vehicle Tracking of Industrial Materials, Materials Handling and Storage.

Employee training must be provided for all employees who work in areas where industrial materials or activities are exposed to stormwater, and for employees who are responsible for implementing activities identified in the SWPPP. Training will be performed on an annual basis.

Dust Suppression and Vehicle Tracking of Industrial Materials

The typical industrial activities performed at the facility do not generate a significant amount of dust. Unusual or intermittent activities, such as construction, will be evaluated on a case by case basis to determine what dust suppression control measures may need to be implemented. Good housekeeping practices should prevent the off-site tracking of industrial materials. All loading and unloading areas of the facility will be kept clean and any spills will be addressed immediately.

The facility will implement control measures, as needed, to minimize the generation of dust and off-site tracking of raw, final, or waste materials. The facility will be sure there is no direct discharge to surface waters from dust suppression activities or as a result of spraying stockpiles.

Recordkeeping and Reporting

Detailed reports of all spills, training, inspection and replacement records, good housekeeping checklists, preventive maintenance logs, and visual inspections should be kept on file by the SWPPP coordinator. Inspection reports will be reviewed by the SWPPP team leader.

Advanced Control Measures

Advanced control measures are specific measures taken to reduce potential pollutants for a particular source. Advanced control measures can be as simple as posting a warning sign at a potential source or curb inlet, or as sophisticated as constructing a pretreatment system to remove stormwater pollutants. Cost, necessity, and effectiveness are determining factors when considering the selection of an advanced control measure. Advanced control measures can include the installation of engineering controls, building a containment dike or diversionary structure, replacing a toxic product or raw material with a non-toxic or bio-degradable product, or installing equipment with low or no maintenance requirements. Advanced control measures for this facility are listed in Appendix B, Worksheet 3.

6.0 ROUTINE QUARTERLY FACILITY INSPECTIONS

Routine facility inspections will be performed quarterly to ensure that all of the elements of the SWPPP are in place and working properly and how well. Quarterly facility inspection checklists have been provided in Appendix E.

Facility personnel will evaluate the effectiveness of control measures and will inspect all areas of the facility where industrial materials or activities are exposed to stormwater as identified in Section 4. At least once each calendar year, the routine facility inspection will be conducted during a period when a stormwater discharge is occurring.

Inspection records will be kept in Appendix E of this SWPPP and will note when inspections were done, who conducted the inspection, what areas were inspected, what problems were found, steps taken to correct any problems and whom has been notified.

Any deficiencies that are found will be corrected as soon as practicable, but not later than within 30 days of the inspection.

7.0 IMPLEMENTATION

This section describes the schedule for implementing identified stormwater management controls or BMPs. This phase details the individuals responsible for setting the SWPPP into operation and activating the SWPPP team. Implementation of the plan includes training of the SWPPP team and related personnel.

SWPPP Implementation

Chesterfield County airport personnel responsible for implementing the elements of the SWPPP will be trained to carry out their responsibilities. The SWPPP team leader will have the primary responsibility of implementing the SWPPP. Implementation elements are shown on Appendix B, Worksheet 3 and are summarized as follows:

Action	Schedule
Training (SWPPP and SPCC)	Annual
Inspections	Quarterly, following significant storm events
Implement Monitoring of Outfalls	Quarterly
Implement Benchmark Monitoring of Outfalls	Semi-Annually

Control Measure Implementation

Implementation schedules for baseline and advanced control measures at the facility are shown in Appendix B, Worksheet 3.

SWPPP Team Activation

To activate the SWPPP team, the team leader will notify all team members of their duties and responsibilities. The team members will be trained and able to perform all assigned duties. Implementation of the plan requires completing actions and steps listed on Appendix B, Worksheet 3.

SWPPP training will address each component of the SWPPP, including who is responsible for tasks to be implemented. A meeting of the team shall take place annually to discuss findings and allow for input on the future direction of the SWPPP.

Training (SWPPP and SPCC)

Employee training needs to be conducted to inform personnel at all levels of their responsibilities as well as the goals of the SWPPP. Training should address each component of the SWPPP, including how, why, and when tasks are to be implemented. Training shall be documented. At minimum, training will include sessions on 1) Elements of SWPPP and Staff Responsibilities and 2) SPCC Plan Training. Effective training can include a variety of techniques to enhance participation and learning including:

- Lectures and visual aids
- Written handouts
- Films and slide presentations
- Drills
- Suggestion Boxes
- Employee handbooks

Training is documented, with copies of attendance sheets maintained with the SWPPP in Appendix F.

Training materials are stored electronically in the Office of Environmental Management's V:/ drive.

Inspections

The SWPPP team has developed a schedule and customized form for the required quarterly inspections. Copies of inspection forms are maintained in Appendix E.

Implement Monitoring of Outfalls

There are four types of monitoring requirements that a facility may be subject to under this permit:

- Quarterly visual monitoring
- Benchmark monitoring of discharges associated with specific industrial activities
- Compliance monitoring for discharges subject to numerical effluent limitations
- Monitoring of discharges to impaired waters

The following sections discuss the procedures for stormwater monitoring at the Chesterfield County Airport.

Quarterly Visual Monitoring

Quarterly visual monitoring of the stormwater discharge outfalls shall be performed at least once in the following three-month time periods: January through March, April through June, July through September, and October through December. A minimum of one grab sample shall be taken from the discharge associated with industrial activity resulting from a storm event that results in an actual discharge from the site (defined as a "measurable storm event"), which occurs at least 72-hours from the previously measurable storm event. The 72-hour requirement can be waived if it is documented that less than a 72-hour interval is representative for local storm events during the sampling period. In the case of snowmelt, the monitoring shall be performed at a time when a measurable discharge occurs at the site.

The grab sample shall be collected within the first 30 minutes of the discharge. If it is not practicable to take the sample during the first 30 minutes, the sample may be taken during the first three hours of discharge, provided that an explanation is documented as to why a grab sample during the first 30 minutes was impracticable. This information shall be maintained with the SWPPP in Appendix D.

No analytical tests are required to be performed on the samples collected for visual monitoring. The monitoring will be completed using the SWPPP Quarterly Inspection Form in Appendix D. Samples shall be collected in a clear glass containers and will be observed and recorded for the following items:

- Color:
- Odor;
- Clarity;

- Floating solids;
- Settled solids;
- Suspended solids;
- Foam;
- Oil sheen: and
- Other obvious indicators of stormwater pollution.

The quarterly visual monitoring results shall be maintained with the SWPPP in Appendix D. The results do not need to be submitted to the Department unless requested to do so.

Benchmark Monitoring

Benchmark monitoring is required for the Chesterfield County Airport under this General Permit for industrial Sector "S" – Airport facilities. Benchmark monitoring shall be conducted at least once in each of the following semiannual periods each year of permit coverage: January through June, and July through December. A minimum of one grab sample shall be taken from the discharge associated with industrial activity resulting from a storm event that results in an actual discharge from the site (defined as a "measurable storm event"), which occurs at least 72-hours from the previously measurable storm event. The 72-hour requirement can be waived if it is documented that less than a 72-hour interval is representative for local storm events during the sampling period. In the case of snowmelt, the monitoring shall be performed at a time when a measurable discharge occurs at the site.

The grab sample shall be collected within the first 30 minutes of the discharge. If it is not practicable to take the sample during the first 30 minutes, the sample may be taken during the first three hours of discharge, provided that an explanation is documented as to why a grab sample during the first 30 minutes was impracticable. This information shall be submitted on or with the Discharge Monitoring Report (DMR), and maintained with the SWPPP in Appendix H.

The benchmark monitoring parameters are Total Suspended Solids (TSS) and Total Petroleum Hydrocarbons (TPH). The benchmark monitoring results shall be submitted to the Department on a DMR by January 10 and July 10 each permit year.

Stormwater discharges from those portions of air transportation facilities where vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), and equipment cleaning is performed shall be sampled for the parameters listed in the table below. Note: The benchmark monitoring requirements apply year round and are not limited to the deicing season.

Sector S – Benchmark Monitoring Requirements

Pollutants of Concern	Benchmark Concentration	
Air Transportation Facilities (SIC 45).		
Total Suspended Solids (TSS)	100 mg/L	
Total Petroleum Hydrocarbons (TPH)*	15.0 mg/L	
*Total Dataslavas Hydrogodoma (TDH) is the same of individual conding range arganics and discal		

*Total Petroleum Hydrocarbons (TPH) is the sum of individual gasoline range organics and diesel range organics (TPH-GRO and TPH-DRO) to be measured by EPA SW 846 Method 8015 for gasoline and diesel range organics, or by EPA SW 846 Methods 8260 Extended and 8270 Extended.

Only outfalls 2, 3, 6, and 7 are required to be sampled for benchmark monitoring as required by the permit.

Compliance Monitoring

Compliance monitoring is not required for the Chesterfield County Airport under this General Permit for industrial Sector "S" – Airport facilities due to the facility not performing airfield pavement deicing or aircraft deicing.

Monitoring of Discharges to Impaired Waters

Monitoring of discharges to impaired waters, both those with an approved Total Maximum Daily Load (TMDL) and those without and approved TMDL, shall be conducted on a semiannual basis. Impaired waters monitoring shall be conducted at least once in each of the following semiannual periods each year of permit coverage: January through June, and July through December. A minimum of one grab sample shall be taken from the discharge associated with industrial activity resulting from a storm event that results in an actual discharge from the site (defined as a "measurable storm event"), which occurs at least 72-hours from the previously measurable storm event. The 72-hour requirement can be waived if it is documented that less than a 72-hour interval is representative for local storm events during the sampling period. In the case of snowmelt, the monitoring shall be performed at a time when a measurable discharge occurs at the site.

The grab sample shall be collected within the first 30 minutes of the discharge. If it is not practicable to take the sample during the first 30 minutes, the sample may be taken during the first three hours of discharge, provided that an explanation is documented as to why a grab sample during the first 30 minutes was impracticable. This information shall be submitted on or with the Discharge Monitoring Report (DMR), and maintained with the SWPPP in Appendix H.

The semiannual monitoring results shall be submitted to the Department on a DMR by January 10 and by July 10 each permit year.

Owners of facilities in the Chesapeake Bay watershed shall monitor their discharges for total suspended solids (TSS), total nitrogen (TN), and total phosphorus (TP) to characterize the contributions from their facility's specific industrial sector for these parameters. After the facility is granted coverage under the permit, the facility is required to collect samples during each of the first four monitoring periods (i.e., the first two years of permit coverage). If the results of the sampling are below the quantitation level in all of the samples from the first four monitoring

periods (i.e., the first two years of coverage under the permit), the facility may request to the Board in writing that further sampling be discontinued. The laboratory certificate of analysis shall be submitted with the request. If approved, documentation of this shall be kept with the SWPPP.

If the results of the sampling are above the quantitation level in any of the samples from the first four monitoring periods, the facility is required to continue the scheduled monitoring throughout the term of the permit.

Using the first four sampling results (the first two years of permit coverage), the facility is required to calculate the facility loading values for TP, TN, and TSS. If any of the values are above the loading value limitations as specified in the permit, the facility is required to develop and submit an Action Plan to the Board for review and approval to achieve. If an Action Plan is needed, the facility must implement the approved Action Plan over the remaining term of the permit to achieve all the necessary reductions by June 30, 2024.

Summary of Sampling Data

The quarterly visual monitoring performed under this current General Permit and the previous permit has had no visual indications that the facility is discharging anything other than stormwater. Semiannual monitoring of discharges for TSS, TN, and TP for facilities in the Chesapeake Bay watershed and benchmark monitoring for TSS and TPH is a new requirement for the current Industrial General Permit beginning July 1, 2014 and ending July 1, 2019.

No other sampling is required under this General Permit, including Sector "S" – Airport facilities.

8.0 EVALUATION AND MONITORING

The purpose of the evaluation and monitoring phase will be to keep the SWPPP up to date by regularly evaluating the information collected in the Assessment Phase and the controls that have been selected in the Control Measure Identification Phase. Specifically, the SWPPP team will:

- Conduct site evaluations:
- Keep records of all inspections and reports; and
- Revise the plan as needed.

Other general requirements include where to keep copies of the plan, how to make changes to the plan that are required by regulatory orders, and who must sign the plan.

Annual Comprehensive Site Compliance Evaluation

At least once per year, SWPPP team members must conduct comprehensive site compliance evaluations (CSCE), which are comprehensive inspections. The team members involved should be familiar with facility operations and SWPPP goals.

The CSCE includes, but is not limited to:

- Reviewing the Stormwater Pollution Prevention Plan and listing items which are part of material handling and storage areas covered by the plan.
- Reviewing facility operations to determine if new areas or modifications to plant operations have occurred that should be incorporated into the plan.
- Inspecting stormwater drainage areas for evidence of pollutants entering the drainage system.
- Evaluating the effectiveness of stormwater pollution prevention measures to reduce pollutant loadings and whether additional measures are needed.
- Observe structural measures, sediment controls, and other BMPs to ensure proper operation.
- Inspect equipment needed to implement the plan, such as spill response equipment.
- Revising the SWPPP as necessary within 30 days if it is determined that potential pollutant sources and pollution prevention control measures are not adequate.
- Implementing necessary changes in a timely manner but in no case more than 60 days after the evaluation.
- Preparing a report summarizing the evaluation, personnel making the evaluation, the date of the evaluation, major observations related to the implementation of the SWPPP, and actions taken. The report shall identify incidents of non-compliance, if any. Where a report does not identify any incidents of non-compliance, the report shall contain a certification that the facility is in compliance with the SWPPP plan and related VPDES permit. The report shall be signed by a principal executive officer (PEO) for the County or ranking elected official (REO). Alternatives for signature authority may be made by the PEO or REO, but must be in writing and specific to an individual or title of an individual (i.e. Airport Administrator) who is authorized to sign on their behalf.

Records documenting the annual comprehensive site compliance evaluation are maintained in Appendix G.

Recordkeeping and Internal Reporting

Keeping records and reporting of events that occur on site is an effective means of tracking the progress of pollution prevention efforts and waste minimization. By keeping records of spills, leaks, and other discharges, revised practices can be implemented to prevent similar events from occurring in the future. Recordkeeping and internal reporting represent good operating practices as they can increase the efficiency of the facility and the effectiveness of control measures, including BMPs.

Facility maps will be maintained and updated to reflect the correct outfall and discharge information, including the name and location of receiving waters and number and location of outfall discharge points.

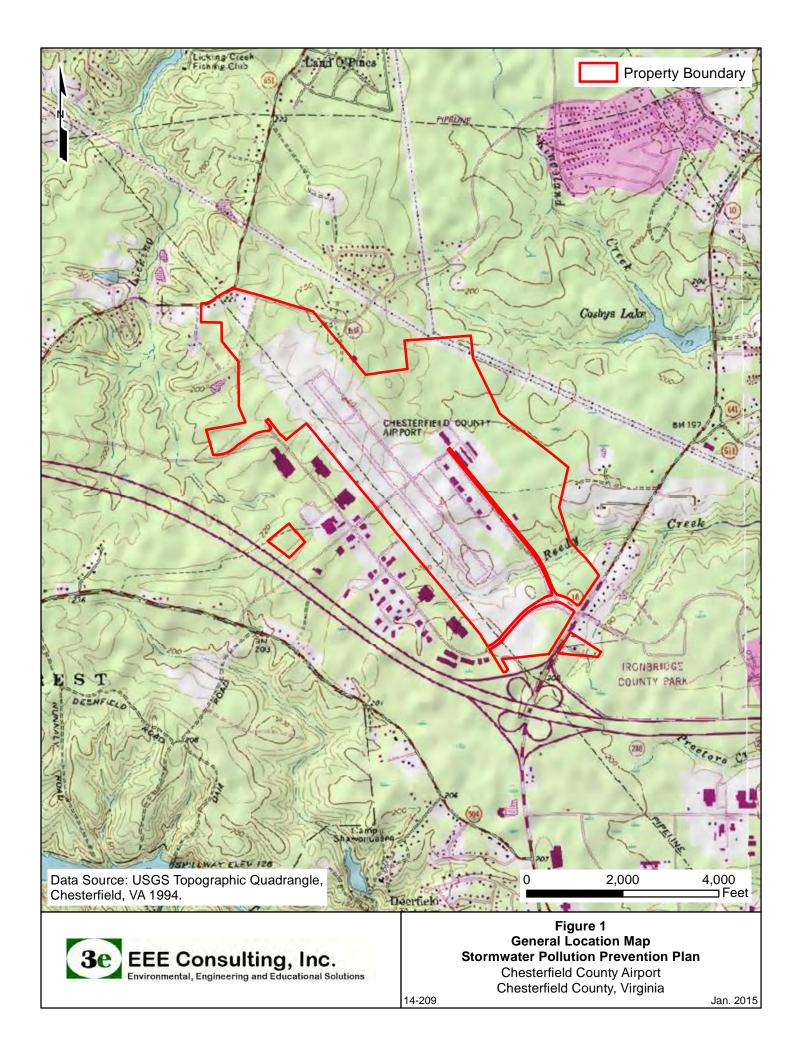
Records of all required activities under the SWPPP regulations will be retained for at least three years from the date that coverage under this permit expires or is terminated.

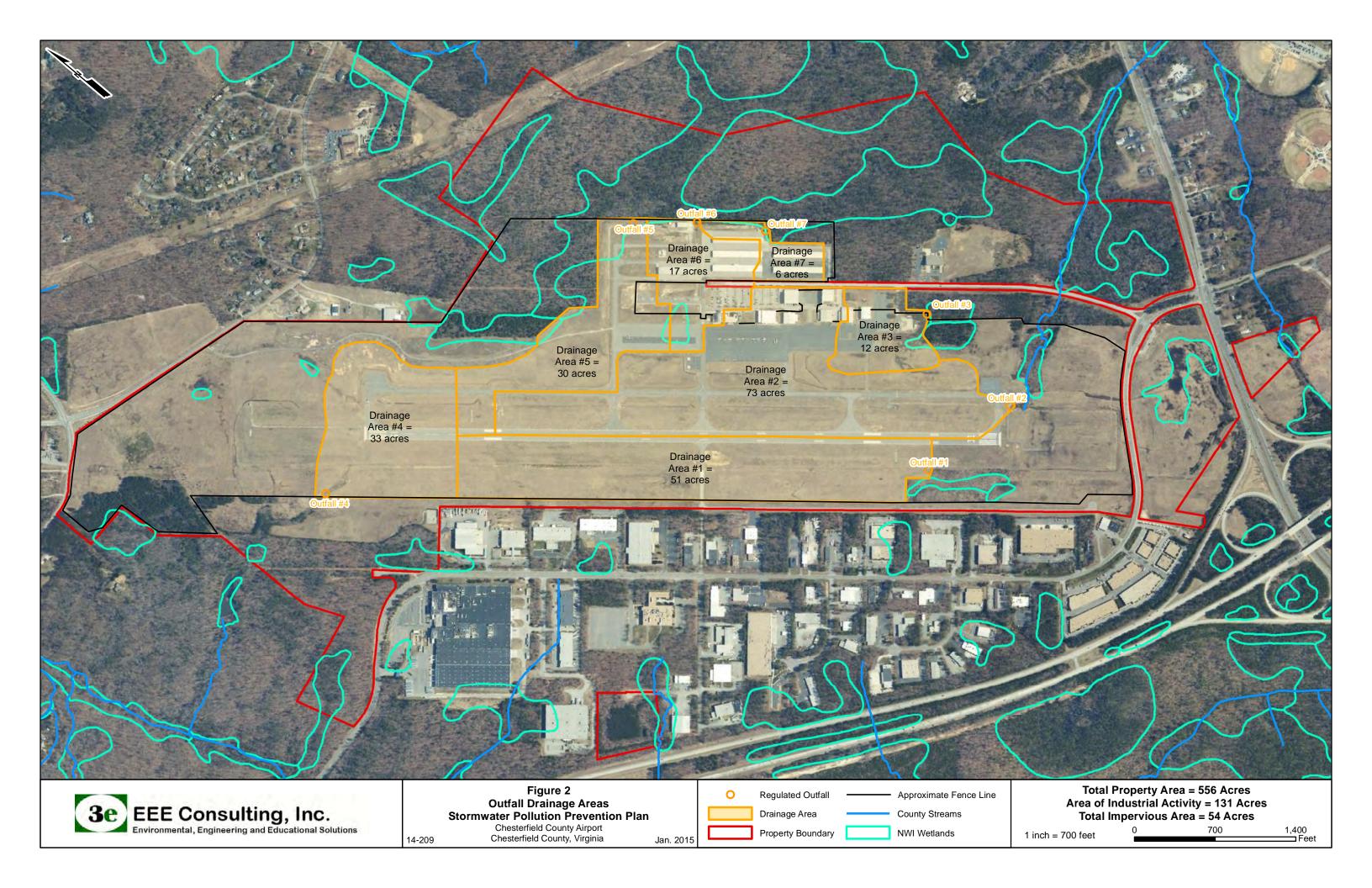
Space is provided within the appendices of this document for storing all records produced in the implementation and maintenance of the SWPPP.

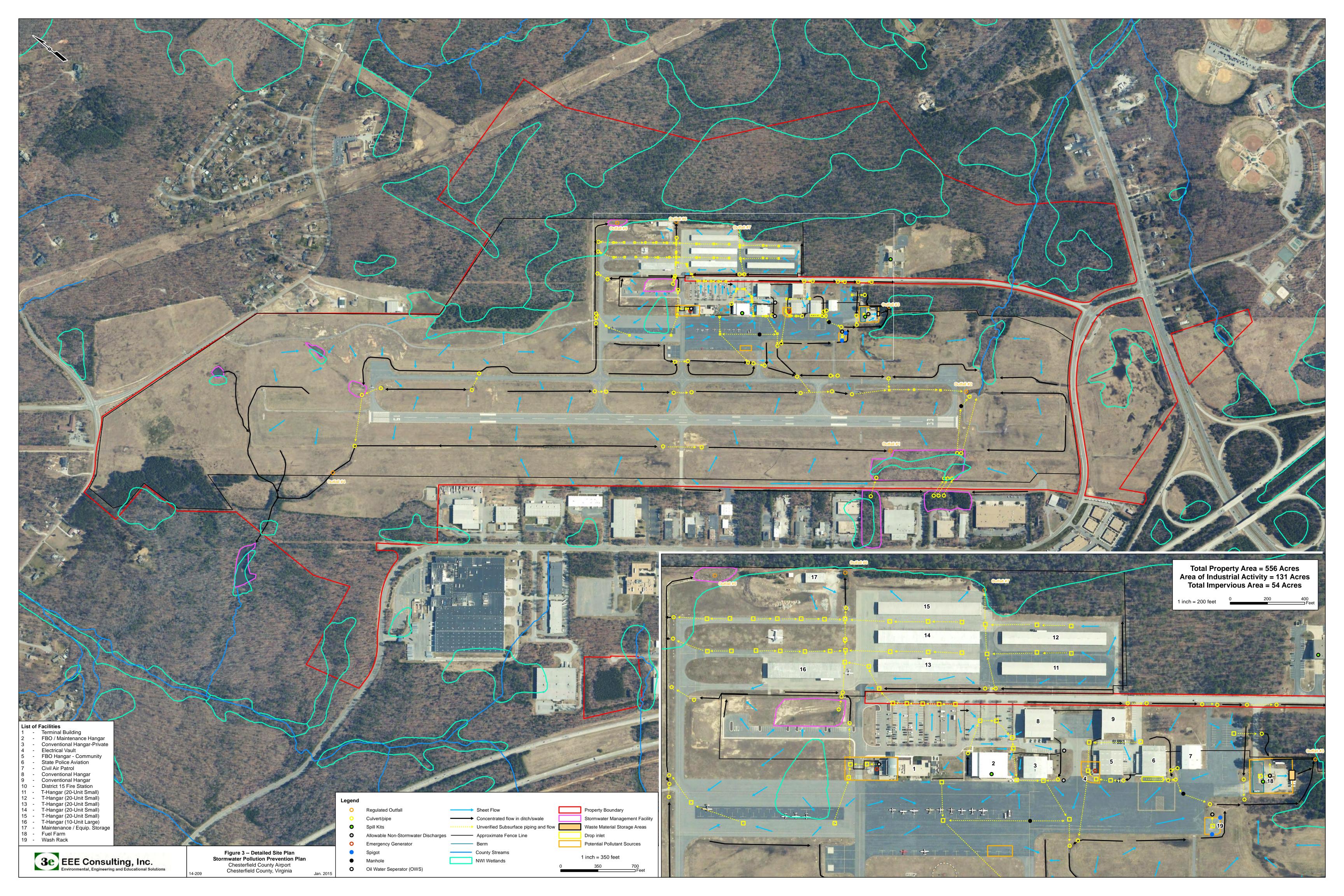
Plan Revisions

The SWPPP Team must amend the plan whenever there is a change in design, construction, operation, and/or maintenance which may impact the potential for pollutants to be discharged or if the SWPPP proves to be ineffective in controlling the discharge of pollutants.









	Appendix A	
VPDES Industrial Stormwater Gen	eral Permit # VAR051129 and Registration St	atement
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COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY PIEDMONT REGIONAL OFFICE

Molly Joseph Ward

Secretary of Natural Resources

4949-A Cox Road, Glen Allen, Virginia 23060

(804) 527-5020 Fax (804) 527-5106

www.deq.virginia.gov

David K. Paylor Director

Michael P. Murphy Regional Director

August 19, 2014

Environmental Coordinator Chesterfield County Airport 6751 Mimms Loop Chesterfield, VA 23832

RE: Coverage under the VPDES Industrial Stormwater General Permit, Registration # VAR051129

Dear Permittee:

We have reviewed your Registration Statement received on May 12, 2014, and have determined that stormwater discharges from the above facility are hereby covered under the referenced VPDES general permit. Your coverage under this permit is effective as of July 1, 2014. The enclosed copy of the general permit contains the applicable stormwater pollution prevention plan (SWPPP), sector specific requirements, monitoring requirements, and other conditions of coverage.

The general permit requires that you update your Stormwater Pollution Prevention Plan (SWPPP) within 90-days of your date of coverage under the permit to incorporate the SWPPP changes that the Department made for this permit reissuance.

For this reissuance, all permit discharge monitoring is semi-annual (i.e., once per six months). Monitoring for your facility begins with the July 1st, 2014 monitoring period.

Discharge Monitoring Reports (DMRs) for your monitoring type(s) and outfalls are included with the permit. Each DMR specifies the applicable monitoring parameters required by the permit. A DMR should be completed for each permitted outfall for each monitoring period. DMRs must be submitted to this office by January 10th and July 10th each year. The first DMR is due January 10th, 2015 for the monitoring period of July 1, 2014 to December 31, 2014.

You are responsible for obtaining additional copies of the DMRs. (See the **e-DMR** note at the end of this letter). Note that Representative Outfall sampling and reporting is allowed for all monitoring types **except** Effluent Limitation Monitoring. See the permit Part I A 2 f for details, and Part I A 5 for instructions on submitting DMRs with representative outfalls.

Note that permittees with at least one industrial activity stormwater discharge through a regulated municipal separate storm sewer system (MS4) have to submit signed copies of DMRs to the MS4 operator at the same time as the reports are submitted to the Department. A spreadsheet listing the regulated MS4s and their addresses is on DEQ's web site at:

 $\frac{http://www.deq.virginia.gov/Programs/Water/StormwaterManagement/VSMPPermits/MS4Permits.aspx}{the\ bottom\ of\ the\ page)}.$

The following discharge monitoring applies to your facility:

- Benchmark monitoring. Specific stormwater monitoring for your facility based on the industrial sectors that apply to your facility (see the enclosed DMR). Refer to the permit Part I A 1 b for the benchmark monitoring requirements, and the sector specific sections for the benchmark monitoring applicable to your facility.
- Impaired Waters Monitoring Chesapeake Bay TMDL Special Monitoring For Facilities In The Chesapeake Bay Watershed. In response to EPA's Chesapeake Bay Total Maximum Daily Load (TMDL) (December 2010), all owners of facilities in the Chesapeake Bay watershed are required to monitor their stormwater discharges for total suspended solids (TSS), total nitrogen (TN), and total phosphorus (TP) to characterize the contributions from their facility's specific industrial sector for these parameters (see the enclosed DMR). After you are granted coverage under the permit, stormwater samples are to be collected during each of the first four monitoring periods (i.e., the first two years of permit coverage). Refer to the permit Special Condition # 7b (permit Part I B 7 b) for the specific Chesapeake Bay TMDL requirements. Also note that Special Condition # 7b(3) (permit Part I B 7 b (3)) requires you to analyze the collected data and possibly develop a Chesapeake Bay TMDL Action Plan based on the results of the sampling. Please refer to the enclosed Errata Sheet for the correct equation to use for the Chesapeake Bay TMDL loading calculations.

Virginia's Phase I Chesapeake Bay Total Maximum Daily Load (TMDL) Watershed Implementation Plan (November 29, 2010), states that the wasteloads from any expansion of an existing permitted facility discharging stormwater in the Chesapeake Bay watershed cannot exceed the nutrient and sediment loadings that were discharged from the expanded portion of the land prior to the land being developed for the expanded industrial activity. For any industrial activity area expansions (i.e., construction activities, including clearing, grading and excavation activities) that commence on or after July 1, 2014 (the effective date of this permit), you must document in the SWPPP the information and calculations used to determine the nutrient and sediment loadings discharged from the expanded land area prior to the land being developed, and the measures and controls that were employed to meet the no net increase of stormwater nutrient and sediment load as a result of the expansion of the industrial activity. Any land disturbance that is not required to be permitted under the VPDES construction stormwater general permit regulation (9VAC25-880) is exempt from this requirement.

DEQ launched an electronic Discharge Monitoring Report (e-DMR) program that now allows you to submit your stormwater DMR data electronically. We hope that every permittee will sign up for e-DMR access when they receive their general permit coverage, but it is not mandatory at this time. Note that EPA is moving towards making electronic reporting a mandatory requirement nationwide, so this may become a requirement in the future. There are many benefits to both DEQ and the permittee when e-DMR is utilized for monitoring data submissions:

- 1) Fewer revisions of the data since the e-DMR program automatically flags omissions before the data is submitted;
- 2) Cost savings on postage, copying, and paper;
- 3) No concerns about using the most current DMR form e-DMR refreshes the required parameters automatically when changes are needed;
- 4) Submittals can be made on a timelier basis;
- 5) e-DMR participants instantly receive a system-generated email notification/ documentation with the exact time and date of when the e-DMR was submitted; and
- 6) Electronic signatures from multiple people are allowed, and e-DMR can be accessed from multiple computer locations.

We ask that you apply for e-DMR participation now, although you may apply at any time. Your regional e-DMR administrator Patrick Bishop, 804-527-5127 or Patrick.bishop@deq.virginia.gov can assist you. The following website provides details, training videos and Frequently Asked Questions: http://www.deq.virginia.gov/Programs/Water/PermittingCompliance/ElectronicDMRsubmissions.aspx

This general permit will expire on June 30, 2019. The permit requires that you submit a new registration statement at least 60 days prior to that date if you wish continued coverage under the general permit,

unless permission for a later date has been granted by the Board. Permission cannot be granted to submit the registration statement after the expiration date of the permit.

If you have any questions, please contact me at 804-527-5197 or joy.abel@deq.virginia.gov.

Sincerely,

Joy D. Abel Water Permit Writer

Enclosure: Permit VAR051129

Fact Sheet Errata Sheet

Benchmark Monitoring DMR Chesapeake Bay TMDL DMR

TMDL Sheet

cc: PRO Compliance: Heather Deihls

Patrick Bishop



General Permit No.: VAR051129

Effective Date: July 1, 2014 Expiration Date: June 30, 2019

GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY

AUTHORIZATION TO DISCHARGE UNDER THE VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM AND THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act, as amended, and pursuant to the State Water Control Law and regulations adopted pursuant thereto, owners of facilities with stormwater discharges associated with industrial activity are authorized to discharge to surface waters within the boundaries of the Commonwealth of Virginia, except those waters specifically named in Board regulation that prohibit such discharges.

The authorized discharge shall be in accordance with this cover page, Part I-Effluent Limitations, Monitoring Requirements and Special Conditions, Part II-Conditions Applicable to All VPDES Permits, Part III-Stormwater Pollution Prevention Plan, and Part IV-Sector-Specific Permit Requirements, as set forth herein.

PART I EFFLUENT LIMITATIONS, MONITORING REQUIREMENTS AND SPECIAL CONDITIONS

A. Effluent limitations and monitoring requirements.

There are four individual and separate categories of monitoring requirements that a facility may be subject to under this permit: (i) quarterly visual monitoring; (ii) benchmark monitoring of discharges associated with specific industrial activities; (iii) compliance monitoring for discharges subject to numerical effluent limitations; and (iv) monitoring of discharges to impaired waters, both those with an approved TMDL and those without an approved TMDL. The monitoring requirements and numeric effluent limitations applicable to a facility depend on the types of industrial activities generating stormwater runoff from the facility, and for TMDL monitoring, the location of the facility's discharge or discharges. Part IV of the permit identifies monitoring requirements applicable to specific sectors of industrial activity. The permittee shall review Part I A 1 and Part IV of the permit to determine which monitoring requirements and numeric limitations apply to his facility. Unless otherwise specified, limitations and monitoring requirements under Part I A 1 and Part IV are additive.

Sector-specific monitoring requirements and limitations are applied discharge by discharge at facilities with co-located activities. Where stormwater from the co-located activities are commingled, the monitoring requirements and limitations are additive. Where more than one numeric limitation for a specific parameter applies to a discharge, compliance with the more restrictive limitation is required. Where monitoring requirements for a monitoring period overlap (e.g., need to monitor TSS twice per year for a limit and also twice per year for benchmark monitoring), the permittee may use a single sample to satisfy both monitoring requirements.

- 1. Types of monitoring requirements and limitations.
 - a. Quarterly visual monitoring. The requirements and procedures for quarterly visual monitoring are applicable to all facilities covered under this permit, regardless of the facility's sector of industrial activity.
 - (1) The permittee shall perform and document a quarterly visual examination of a stormwater discharge associated with industrial activity from each outfall, except discharges exempted in Part I A 3 or Part I A 4. The examination(s) shall be made at least once in each of the following three-month periods: January through March, April through June, July through September, and October through December. The visual examination shall be made during normal working hours, where practicable, and when considerations for safety and feasibility allow. If no storm event resulted in runoff from the facility during a monitoring quarter, the permittee is excused from visual monitoring for that quarter provided that documentation is included with the monitoring records indicating that no runoff occurred. The documentation shall be signed and certified in accordance with Part II K of this permit.
 - (2) Samples shall be collected in accordance with Part I A 2. The examination shall document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution. The examination shall be conducted in a well-lit area. No analytical tests are required to be performed on the samples.
 - (3) The visual examination reports shall be maintained on-site with the Stormwater Pollution Prevention Plan (SWPPP). The report shall include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snow melt), visual quality of the stormwater discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids,

foam, oil sheen, and other obvious indicators of stormwater pollution), and probable sources of any observed stormwater contamination.

b. Benchmark monitoring of discharges associated with specific industrial activities.

Table 70-1 identifies the specific industrial sectors subject to the benchmark monitoring requirements of this permit and the industry-specific pollutants of concern. The permittee shall refer to the tables found in the individual sectors in Part IV for benchmark monitoring concentration values. Co-located industrial activities at the facility that are described in more than one sector in Part IV shall comply with all applicable benchmark monitoring requirements from each sector.

The results of benchmark monitoring are primarily for the permittee to use to determine the overall effectiveness of the SWPPP in controlling the discharge of pollutants to receiving waters. Benchmark concentration values, included in Part IV of this permit, are not effluent limitations. Exceedance of a benchmark concentration does not constitute a violation of this permit and does not indicate that violation of a water quality standard has occurred; however, it does signal that modifications to the SWPPP are necessary, unless justification is provided in the comprehensive site compliance evaluation (Part III E). In addition, exceedance of benchmark concentrations may identify facilities that would be more appropriately covered under an individual, or alternative general permit where more specific pollution prevention controls could be required.

TABLE 70-1
INDUSTRIAL SECTORS SUBJECT TO BENCHMARK MONITORING

Industry Sector ¹	Industry Sub-sector	Benchmark Monitoring Parameters
S	Airports	TSS, TPH.

¹Table does not include parameters for compliance monitoring under effluent limitations guidelines.

(1) Benchmark monitoring shall be performed for all benchmark parameters specified for the industrial sector or sectors applicable to a facility's discharge. Monitoring shall be performed at least once during each of the first four, and potentially all, monitoring periods after coverage under the permit begins. Monitoring commences with the first full monitoring period after the owner is granted coverage under the permit. Monitoring periods are specified in Part I A 2.

Depending on the results of four consecutive monitoring periods, benchmark monitoring may not be required to be conducted in subsequent monitoring periods (see subdivision (2) below).

- (2) Benchmark monitoring waivers for facilities testing below benchmark concentration values. Waivers from benchmark monitoring are available to facilities whose discharges are below benchmark concentration values on an outfall by outfall basis. Sector-specific benchmark monitoring is not required to be conducted in subsequent monitoring periods during the term of this permit provided:
 - (a) Samples were collected in four consecutive monitoring periods, and the average of the four samples for all parameters at the outfall is below the applicable benchmark concentration value in Part IV. (Note: facilities that were covered under the 2009 industrial stormwater general permit may use sampling data from the last two monitoring periods of that permit and the first two monitoring periods of this permit to satisfy the four consecutive monitoring periods requirement); and

- (b) The facility is not subject to a numeric effluent limitation established in Part I A 1 c (1) (Stormwater Effluent Limitations), Part I A 1 c (2) (Coal Pile Runoff), or Part IV (Sector Specific Permit Requirements) for any of the parameters at that outfall: and
- (c) A waiver request is submitted to and approved by the Board. The waiver request shall be sent to the appropriate DEQ regional office, along with the supporting monitoring data for four consecutive monitoring periods, and a certification that, based on current potential pollutant sources and control measures used, discharges from the facility are reasonably expected to be essentially the same (or cleaner) compared to when the benchmark monitoring for the four consecutive monitoring periods was done.

Waiver requests will be evaluated by the Board based upon: (i) benchmark monitoring results below the benchmark concentration values; (ii) a favorable compliance history (including inspection results); and (iii) no outstanding enforcement actions.

The monitoring waiver may be revoked by the Board for just cause. The permittee will be notified in writing that the monitoring waiver is revoked, and that the benchmark monitoring requirements are again in force and will remain in effect until the permit's expiration date.

- (3) Samples shall be collected and analyzed in accordance with Part I A 2. Monitoring results shall be reported in accordance with Part I A 5 and Part II C and retained in accordance with Part II B.
- c. Compliance monitoring for discharges subject to numerical effluent limitations or discharges to impaired waters.
 - (1) Facilities subject to stormwater effluent limitation guidelines.
 - (a) Facilities subject to stormwater effluent limitation guidelines (see Table 70-2) are required to monitor such discharges to evaluate compliance with numerical effluent limitations. Industry-specific numerical limitations and compliance monitoring requirements are described in Part IV of the permit. Permittees with co-located industrial activities at the facility that are described in more than one sector in Part IV shall comply on a discharge-by-discharge basis with all applicable effluent limitations from each sector.
 - (b) Permittees shall monitor the discharges for the presence of the pollutant subject to the effluent limitation at least once during each of the monitoring periods after coverage under the permit begins. Monitoring commences with the first full monitoring period after the owner is granted coverage under the permit. Monitoring periods are specified in Part I A 2. The substantially identical outfall monitoring provisions (Part I A 2 f) are not available for numeric effluent limits monitoring.

TABLE 70-2 STORMWATER-SPECIFIC EFFLUENT LIMITATION GUIDELINES

Effluent Limitation Guideline	Sectors with Affected Facilities
Discharges from airport deicing operations (40 CFR Part 449 (established May 16, 2012))	S

- (c) Samples shall be collected and analyzed in accordance with Part I A 2. Monitoring results shall be reported in accordance with Part I A 5 and Part II C, and retained in accordance with Part II B.
- (2) Not Applicable Facilities subject to coal pile runoff monitoring.
- (3) Facilities discharging to an impaired water with an approved TMDL wasteload allocation.

Owners of facilities that are a source of the specified pollutant of concern to waters for which a TMDL wasteload allocation has been approved prior to the term of this permit will be notified as such by the Department when they are approved for coverage under the general permit.

- (a) Upon written notification from the Department, facilities subject to TMDL wasteload allocations will be required to monitor such discharges to evaluate compliance with the TMDL requirements.
- (b) Permittees shall monitor the discharges for the pollutant subject to the TMDL wasteload allocation at least once during each of the monitoring periods after coverage under the permit begins. Monitoring commences with the first full monitoring period after the owner is granted coverage under the permit. Monitoring periods are specified in Part I A 2.
- (c) Samples shall be collected and analyzed in accordance with Part I A 2. Monitoring results shall be reported in accordance with Part I A 5 and Part II C, and retained in accordance with Part II B.
- (d) If the pollutant subject to the TMDL wasteload allocation is below the quantitation level in all of the samples from the first four monitoring periods (i.e., the first two years of coverage under the permit), the permittee may request to the Board in writing that further sampling be discontinued, unless the TMDL has specific instructions to the contrary (in which case those instructions shall be followed). The laboratory certificate of analysis shall be submitted with the request. If approved, documentation of this shall be kept with the SWPPP.
- If the pollutant subject to the TMDL wasteload allocation is above the quantitation level in any of the samples from the first four monitoring periods, the permittee shall continue the scheduled TMDL monitoring throughout the term of the permit.
- (4) Facilities discharging to an impaired water without an approved TMDL wasteload allocation.

Owners of facilities that discharge to waters listed as impaired in the 2012 Final 305(b)/303(d) Water Quality Assessment Integrated Report, and for which a TMDL wasteload allocation has not been approved prior to the term of this permit, will be notified as such by the Department when they are approved for coverage under the general permit.

- (a) Upon written notification from the Department, facilities discharging to an impaired water without an approved TMDL wasteload allocation will be required to monitor such discharges for the pollutant(s) that caused the impairment.
- (b) Permittees shall monitor the discharges for all pollutants for which the waterbody is impaired, and for which a standard analytical method exists, at least once during each of the monitoring periods after coverage under the permit begins. Monitoring commences with the first full monitoring period after the owner is granted coverage under the permit. Monitoring periods are specified in Part I A 2.

(c) If the pollutant for which the waterbody is impaired is suspended solids, turbidity, or sediment, or sedimentation, monitor for total suspended solids (TSS). If the pollutant for which the waterbody is impaired is expressed in the form of an indicator or surrogate pollutant, monitor for that indicator or surrogate pollutant. No monitoring is required when a waterbody's biological communities are impaired but no pollutant, including indicator or surrogate pollutants, is specified as causing the impairment, or when a waterbody's impairment is related to hydrologic modifications, impaired hydrology, or temperature.

Samples shall be collected and analyzed in accordance with Part I A 2. Monitoring results shall be reported in accordance with Part I A 5 and Part II C, and retained in accordance with Part II B.

(d) If the pollutant for which the water is impaired is below the quantitation level in the discharges from the facility, or it is above the quantitation level but its presence is caused solely by natural background sources, the permittee may request to the Board in writing that further impaired water monitoring be discontinued. The laboratory certificate of analysis shall be submitted with the request. If approved, documentation of this shall be kept with the SWPPP.

To support a determination that the pollutant's presence is caused solely by natural background sources, the following documentation shall be submitted with the request and kept with the SWPPP: (i) an explanation of why it is believed that the presence of the impairment pollutant in the facility's discharge is not related to the activities at the facility; and (ii) data or studies that tie the presence of the impairment pollutant in the facility's discharge to natural background sources in the watershed. Natural background pollutants include those substances that are naturally occurring in soils or groundwater. Natural background pollutants do not include legacy pollutants from earlier activity at the facility's site, or pollutants in run-on from neighboring sources that are not naturally occurring.

2. Monitoring instructions.

- a. Collection and analysis of samples. Sampling requirements shall be assessed on an outfall by outfall basis. Samples shall be collected and analyzed in accordance with the requirements of Part II A.
- b. When and how to sample. A minimum of one grab sample shall be taken from the discharge associated with industrial activity resulting from a storm event that results in an actual discharge from the site (defined as a "measurable storm event"), providing the interval from the preceding measurable storm event is at least 72 hours. The 72-hour storm interval is waived if the permittee is able to document that less than a 72-hour interval is representative for local storm events during the sampling period. In the case of snowmelt, the monitoring shall be performed at a time when a measurable discharge occurs at the site. For discharges from a stormwater management structure, the monitoring shall be performed at a time when a measurable discharge occurs from the structure.

The grab sample shall be taken during the first 30 minutes of the discharge. If it is not practicable to take the sample during the first 30 minutes, the sample may be taken during the first three hours of the discharge, provided that the permittee explains why a grab sample during the first 30 minutes was impracticable. This information shall be submitted on or with the Discharge Monitoring Report (DMR), and maintained with the SWPPP. If the sampled discharge commingles with process or nonprocess water, the permittee shall attempt to sample the stormwater discharge before it mixes with the non-stormwater.

- c. Storm event data. For each monitoring event (except snowmelt monitoring), along with the monitoring results, the permittee shall identify the date and duration (in hours) of the storm event(s) sampled; rainfall total (in inches) of the storm event that generated the sampled runoff; and the duration between the storm event sampled and the end of the previous measurable storm event. For snowmelt monitoring, the permittee shall identify the date of the sampling event.
- d. Monitoring periods.
 - (1) Quarterly visual monitoring. The quarterly visual examinations shall be made at least once in each of the following three-month periods each year of permit coverage: January through March, April through June, July through September, and October through December.
 - (2) Benchmark monitoring, effluent limitation monitoring, and impaired waters monitoring (for waters both with and without an approved TMDL). Monitoring shall be conducted at least once in each of the following semiannual periods each year of permit coverage: January through June, and July through December.
- e. Documentation explaining a facility's inability to obtain a sample (including dates and times the outfalls were viewed or sampling was attempted), of no rain event, or of no "measurable" storm event shall be maintained with the SWPPP. Acceptable documentation includes, but is not limited to, National Climatic Data Center (NCDC) weather station data, local weather station data, facility rainfall logs, and other appropriate supporting data.
- f. Representative outfalls substantially identical discharges. If the facility has two or more outfalls that discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and stormwater management practices occurring within the drainage areas of the outfalls, the permittee may conduct monitoring on the effluent of just one of the outfalls and report that the observations also apply to the substantially identical outfall or outfalls. The substantially identical outfall monitoring, benchmark monitoring, and impaired waters monitoring (both those with and without an approved TMDL). The substantially identical outfall monitoring provisions are not available for numeric effluent limits monitoring.

The permittee shall include the following information in the SWPPP:

- (1) The locations of the outfalls:
- (2) Why the outfalls are expected to discharge substantially identical effluents, including evaluation of monitoring data where available; and
- (3) Estimates of the size of the drainage area (in square feet) for each of the outfalls.
- 3. Adverse climatic conditions waiver. When adverse weather conditions prevent the collection of samples, a substitute sample may be taken during a qualifying storm event in the next monitoring period. Adverse weather conditions are those that are dangerous or create inaccessibility for personnel, and may include such things as local flooding, high winds, electrical storms, or situations that otherwise make sampling impracticable, such as drought or extended frozen conditions. Unless specifically stated otherwise, this waiver may be applied to any monitoring required under this permit.
- 4. Inactive and unstaffed sites (including temporarily inactive sites).
 - a. A waiver of the quarterly visual assessments, routine facility inspections, and monitoring requirements (including benchmark, effluent limitation, and impaired waters monitoring) may be granted by the Board at a facility that is both inactive and unstaffed, as long as the facility remains inactive and unstaffed and there are no industrial

materials or activities exposed to stormwater. The owner of such a facility is only required to conduct an annual comprehensive site inspection in accordance with the requirements in Part III E.

- b. An inactive and unstaffed sites waiver request shall be submitted to the Board for approval and shall include: the name of the facility; the facility's VPDES general permit registration number; a contact person, phone number and email address (if available); the reason for the request; and the date the facility became or will become inactive and unstaffed. The waiver request shall be signed and certified in accordance with Part II K. If this waiver is granted, a copy of the request and the Board's written approval of the waiver shall be maintained with the SWPPP.
- c. If circumstances change and industrial materials or activities become exposed to stormwater, or the facility becomes either active or staffed, the permittee shall notify the Department within 30 days, and all quarterly visual assessments, routine facility inspections, and monitoring requirements shall be resumed immediately.
- d. The Board retains the right to revoke this waiver when it is determined that the discharge is causing, has a reasonable potential to cause, or contributes to a water quality standards violation.

5. Reporting monitoring results.

a. Reporting to the Department. The permittee shall follow the reporting requirements and deadlines below for the types of monitoring that apply to the facility:

TABLE 70-4
MONITORING REPORTING REQUIREMENTS

Semiannual Monitoring	Submit the results on a DMR by January 10 and by July 10.
Quarterly Visual Monitoring	Retain results with SWPPP - do not submit unless requested to do so by the Department.

Permittees shall submit results for each outfall associated with industrial activity according to the requirements of Part II C. For each outfall sampled, one signed discharge monitoring report (DMR) form shall be submitted to the Department per storm event sampled. For representative outfalls, the sampled outfall will be reported on the DMR, and the outfalls that are representative of the sampled outfall will be listed in the comment section of the DMR. Signed DMRs are not required for each of the outfalls that are representative of the sampled outfall.

- b. Additional reporting. In addition to submitting copies of discharge monitoring reports in accordance with Part II C, permittees with at least one stormwater discharge associated with industrial activity through a regulated municipal separate storm sewer system (MS4) shall submit signed copies of DMRs to the MS4 operator at the same time as the reports are submitted to the Department. Permittees not required to report monitoring data and permittees that are not otherwise required to monitor their discharges need not comply with this provision.
- c. Significant digits. The permittee shall report at least the same number of significant digits as a numeric effluent limitation or TMDL wasteload allocation for a given parameter; otherwise, at least two significant digits shall be reported for a given parameter. Regardless of the rounding convention used by the permittee (i.e., five always rounding up or to the nearest even number), the permittee shall use the convention consistently and shall ensure that consulting laboratories employed by the permittee use the same convention.

Corrective actions.

- a. Data exceeding benchmarks concentration values.
 - (1) If the benchmark monitoring result exceeds the benchmark concentration value for that parameter, the permittee shall review the SWPPP and modify it as necessary to address any deficiencies that caused the exceedance. Revisions to the SWPPP shall be completed within 30 days after an exceedance is discovered. When control measures need to be modified or added (distinct from regular preventive maintenance of existing control measures described in Part III C), implementation shall be completed before the next anticipated storm event if possible, but no later than 60 days after the exceedance is discovered, or as otherwise provided or approved by the Department. In cases where construction is necessary to implement control measures, the permittee shall include a schedule in the SWPPP that provides for the completion of the control measures as expeditiously as practicable, but no later than three years after the exceedance is discovered. Where a construction compliance schedule is included in the SWPPP, the plan shall include appropriate nonstructural and temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure. Any control measure modifications shall be documented and dated, and retained with the SWPPP, along with the amount of time taken to modify the applicable control measures or implement additional control measures.
 - (2) Natural background pollutant levels. If the concentration of a pollutant exceeds a benchmark concentration value, and the permittee determines that exceedance of the benchmark is attributable solely to the presence of that pollutant in the natural background, corrective action is not required provided that:
 - (a) The concentration of the benchmark monitoring result is less than or equal to the concentration of that pollutant in the natural background;
 - (b) The permittee documents and maintains with the SWPPP the supporting rationale for concluding that benchmark exceedances are in fact attributable solely to natural background pollutant levels. The supporting rationale shall include any data previously collected by the facility or others (including literature studies) that describe the levels of natural background pollutants in the facility's stormwater discharges; and
 - (c) The permittee notifies the Department on the benchmark monitoring DMR that the benchmark exceedances are attributable solely to natural background pollutant levels.

Natural background pollutants include those substances that are naturally occurring in soils or groundwater. Natural background pollutants do not include legacy pollutants from earlier activity on the facility's site, or pollutants in run-on from neighboring sources that are not naturally occurring.

- b. Corrective actions. The permittee shall take corrective action whenever:
 - (1) Routine facility inspections, comprehensive site compliance evaluations, inspections by local, state or federal officials, or any other process, observation or event result in a determination that modifications to the stormwater control measures are necessary to meet the permit requirements;
 - (2) There is any exceedance of an effluent limitation (including coal pile runoff), TMDL wasteload allocation, or a reduction required by a local ordinance established by a municipality to meet Chesapeake Bay TMDL requirements; or

(3) The Department determines, or the permittee becomes aware, that the stormwater control measures are not stringent enough for the discharge to meet applicable water quality standards.

The permittee shall review the SWPPP and modify it as necessary to address any deficiencies. Revisions to the SWPPP shall be completed within 30 days following the discovery of the deficiency. When control measures need to be modified or added (distinct from regular preventive maintenance of existing control measures described in Part III C), implementation shall be completed before the next anticipated storm event if possible, but no later than 60 days after the deficiency is discovered, or as otherwise provided or approved by the Department. In cases where construction is necessary to implement control measures, the permittee shall include a schedule in the SWPPP that provides for the completion of the control measures as expeditiously as practicable, but no later than three years after the deficiency is discovered. Where a construction compliance schedule is included in the SWPPP, the plan shall include appropriate nonstructural and temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure. The amount of time taken to modify a control measure or implement additional control measures shall be documented in the SWPPP.

Any corrective actions taken shall be documented and retained with the SWPPP. Reports of corrective actions shall be signed in accordance with Part II K.

c. Follow-up reporting. If at any time monitoring results indicate that discharges from the facility exceed an effluent limitation or a TMDL wasteload allocation, or the Department determines that discharges from the facility are causing or contributing to an exceedance of a water quality standard, immediate steps shall be taken to eliminate the exceedances in accordance with the above Part I A 6 b (Corrective actions). Within 30 calendar days of implementing the relevant corrective action(s), an exceedance report shall be submitted to the Department. The following information shall be included in the report: general permit registration number; facility name, address, and location; receiving water; monitoring data from this event; an explanation of the situation; description of what has been done and the intended actions (should the corrective actions not yet be complete) to further reduce pollutants in the discharge; and an appropriate contact name and phone number.

B. Special conditions.

- 1. Allowable non-stormwater discharges. Except as provided in this section or in Part IV, all discharges covered by this permit shall be composed entirely of stormwater. The following non-stormwater discharges are authorized by this permit:
 - a. Discharges from fire fighting activities;
 - b. Fire hydrant flushings;
 - c. Potable water including water line flushings;
 - d. Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;
 - e. Irrigation drainage;
 - f. Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling;
 - q. Routine external building washdown that does not use detergents:
 - h. Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);

- i. Uncontaminated ground water or spring water;
- j. Foundation or footing drains where flows are not contaminated with process materials; and
- k. Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but not intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains).

All other non-stormwater discharges are not authorized and shall either be eliminated or covered under a separate VPDES permit.

The following non-stormwater discharges are specifically not authorized by this permit:

- Sector S Air transportation. Aircraft, ground vehicle, runway and equipment washwaters; and dry weather discharges of deicing and anti-icing chemicals.
- 2. Releases of hazardous substances or oil in excess of reportable quantities. The discharge of hazardous substances or oil in the stormwater discharge(s) from the facility shall be prevented or minimized in accordance with the stormwater pollution prevention plan for the facility. This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill. This permit does not relieve the permittee of the reporting requirements of 40 CFR Part 110, 40 CFR Part 117, and 40 CFR Part 302 or § 62.1-44.34:19 of the Code of Virginia.

Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302 occurs during a 24-hour period:

- a. The permittee is required to notify the Department in accordance with the requirements of Part II G as soon as he has knowledge of the discharge;
- b. Where a release enters a municipal separate storm sewer system (MS4), the permittee shall also notify the owner of the MS4; and
- c. The stormwater pollution prevention plan required under Part III shall be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan shall be modified where appropriate.
- 3. Co-located industrial activity. If the facility has industrial activities occurring on-site which are described by any of the activities in Part IV of the permit, those industrial activities are considered to be co-located industrial activities. Stormwater discharges from co-located industrial activities are authorized by this permit, provided that the permittee complies with any and all additional pollution prevention plan and monitoring requirements from Part IV applicable to that particular co-located industrial activity. The permittee shall determine which additional pollution prevention plan and monitoring requirements are applicable to the co-located industrial activity by examining the narrative descriptions of each coverage section (Discharges covered under this section).
- 4. The stormwater discharges authorized by this permit may be combined with other sources of stormwater which are not required to be covered under a VPDES permit, so long as the combined discharge is in compliance with this permit.
- 5. There shall be no discharge of waste, garbage, or floating debris in other than trace amounts.
- 6. Approval for coverage under this general permit does not relieve the permittee of the responsibility to comply with any other applicable federal, state, or local statute, ordinance, or regulation.
- 7. Discharges to waters subject to TMDL wasteload allocations.

- a. Owners of facilities that are a source of the specified pollutant of concern to waters for which a total maximum daily load (TMDL) wasteload allocation has been approved prior to the term of this permit shall incorporate measures and controls into the SWPPP required by Part III that are consistent with the assumptions and requirements of the TMDL. The Department will provide written notification to the owner that a facility is subject to the TMDL requirements. The facility's SWPPP shall specifically address any conditions or requirements included in the TMDL that are applicable to discharges from the facility. If the TMDL establishes a specific numeric wasteload allocation that applies to discharges from the facility, the owner shall perform any required monitoring in accordance with Part I A 1 c (3), and implement control measures designed to meet that allocation.
- b. Facilities in the Chesapeake Bay watershed.
 - (1) Owners of facilities in the Chesapeake Bay watershed shall monitor their discharges for total suspended solids (TSS), total nitrogen (TN), and total phosphorus (TP) to characterize the contributions from their facility's specific industrial sector for these parameters. After the facility is granted coverage under the permit, samples shall be collected during each of the first four monitoring periods (i.e., the first two years of permit coverage). Monitoring periods are specified in Part I A 2. Samples shall be collected and analyzed in accordance with Part I A 2. Monitoring results shall be reported in accordance with Part I A 5 and Part II C, and retained in accordance with Part II B.
 - (2) Facilities that were covered under the 2009 industrial stormwater general permit that sampled for TSS, TN or TP may use applicable sampling data from the last two monitoring periods of that permit and the first two monitoring periods of this permit to satisfy the four consecutive monitoring periods requirement.
 - (3) Chesapeake Bay TMDL wasteload allocations and Chesapeake Bay TMDL action plans.
 - (a) EPA's Chesapeake Bay TMDL (December 29, 2010) includes wasteload allocations for VPDES permitted industrial stormwater facilities as part of the regulated stormwater aggregate load. EPA used data submitted by Virginia with the Phase I Chesapeake Bay TMDL Watershed Implementation Plan, including the number of industrial stormwater permits per county and the number of urban acres regulated by industrial stormwater permits, as part of their development of the aggregate load. Aggregate loads for industrial stormwater facilities were appropriate because actual facility loading data were not available to develop individual facility wasteload allocations.

Virginia estimated the loadings from industrial stormwater facilities using actual and estimated facility acreage information, and TP, TN, and TSS loading values from the Northern Virginia Planning District Commission (NVPDC) *Guidebook for Screening Urban Nonpoint Pollution Management Strategies,* prepared for the Metropolitan Washington Council of Governments. Annandale, VA. November, 1979. The loading values used were as follows:

TP - High (80%) imperviousness industrial; 1.5 lb/ac/yr

TN - High (80%) imperviousness industrial: 12.3 lb/ac/vr

TSS - High (80%) imperviousness industrial; 440 lb/ac/yr

The actual facility area information, and the TP, TN and TSS data collected for this permit will be used by the Board to quantify the nutrient and sediment loads from VPDES permitted industrial stormwater facilities, and will be submitted to EPA to aid them in further refinements to their Chesapeake Bay TMDL model.

The loading information will also be used by the Board to determine any additional load reductions needed for industrial stormwater facilities for the next reissuance of this permit.

(b) Data analysis and Chesapeake Bay TMDL action plans. The permittee shall analyze the nutrient and sediment data collected in accordance with subdivision 7 b (1) of this subsection to determine if additional action is needed for this permit term. The permittee shall average the data collected at the facility for each of the pollutants of concern (POC) (e.g., TP, TN and TSS) and compare the results to the loading values for TP, TN and TSS presented in subdivision 7 b (3) (a) of this subsection. To calculate the facility loadings, the permittee may use either: (i) actual annual average rainfall data for the facility location (in inches/year), or the Virginia annual average rainfall of 44.3 inches/year; or (ii) another method approved by the Board.

The following formula may be used to determine the loading value:

 $L = (0.2263 \times R \times C) / A$

where:

L = the POC loading value (lb/acre/year)

R = the annual average rainfall (inches/year)

C = the POC average concentration of all facility samples (mg/L)

A = the facility industrial activity area (acres)

NOTE: Do NOT use this equation to calculate the facility loading data. The equation is incorrect. See the 2014 Industrial Stormwater General Permit Regulation (VAR05) Errata Sheet for the correct equation to use.

- (c) If the calculated facility loading value for TP or TN or TSS is above the loading values for TP or TN or TSS presented in subdivision 7 b (3) (a) of this subsection, then the permittee shall develop and submit to the Board for review and approval a Chesapeake Bay TMDL Action Plan. The plan shall be submitted within 90 days from the end of the second year's monitoring period (by September 28, 2016). The permittee shall implement the approved plan over the remaining term of this permit to achieve all the necessary reductions by June 30, 2024. The action plan shall include:
 - (i) A determination of the total pollutant load reductions for TP, TN and TSS (as appropriate) necessary to reduce the annual loads from industrial activities. This shall be determined by calculating the difference between the loading values listed in subdivision 7 b (3) (a) of this subsection, and the average of the sampling data for TP, TN or TSS (as appropriate) for the entire facility. The reduction applies to the total difference calculated for each pollutant of concern;
 - (ii) The means and methods, such as management practices and retrofit programs, that will be utilized to meet the required reductions determined in subdivision 7 b (3) (c) (i) of this subsection, and a schedule to achieve those reductions by June 30, 2024. The schedule should include annual benchmarks to demonstrate the ongoing progress in meeting those reductions:
 - (iii) The permittee may consider utilization of any pollutant trading or offset program in accordance with §§ 62.1-44.19:20 through 62.1-44.19:23 of the Code of Virginia, governing trading and offsetting, to meet the required reductions.

- (d) Permittees required to develop and implement a Chesapeake Bay TMDL Action Plan shall submit an annual report to the Department by June 30th of each year describing the progress in meeting the required reductions.
- 8. Discharges through a regulated MS4 to waters subject to the Chesapeake Bay TMDL. In addition to the requirements of this permit, any facility with industrial activity discharges through a regulated MS4 that is notified by the MS4 operator that the locality has adopted ordinances to meet the Chesapeake Bay TMDL shall incorporate measures and controls into their SWPPP to comply with applicable local TMDL ordinance requirements.
- 9. Expansion of facilities that discharge to waters subject to the Chesapeake Bay TMDL. Virginia's Phase I Chesapeake Bay TMDL Watershed Implementation Plan (November 29, 2010), states that the wasteloads from any expansion of an existing permitted facility discharging stormwater in the Chesapeake Bay watershed cannot exceed the nutrient and sediment loadings that were discharged from the expanded portion of the land prior to the land being developed for the expanded industrial activity.
 - a. For any industrial activity area expansions (i.e., construction activities, including clearing, grading and excavation activities) that commence on or after July 1, 2014 (the effective date of this permit), the permittee shall document in the SWPPP the information and calculations used to determine the nutrient and sediment loadings discharged from the expanded land area prior to the land being developed, and the measures and controls that were employed to meet the no net increase of stormwater nutrient and sediment load as a result of the expansion of the industrial activity. Any land disturbance that is exempt from permitting under the VPDES construction stormwater general permit regulation (9VAC25-880) is exempt from this requirement.
 - b. The permittee may use the VSMP water quality design criteria to meet the requirements of subdivision "a" of this subsection. Under this criteria, the total phosphorus load shall not exceed the greater of: (i) the total phosphorus load that was discharged from the expanded portion of the land prior to the land being developed for the industrial activity or (ii) 0.41 pounds per acre per year. Compliance with the water quality design criteria may be determined utilizing the Virginia Runoff Reduction Method or another equivalent methodology approved by the Board. Design specifications and pollutant removal efficiencies for specific BMPs can be found on the Virginia Stormwater BMP Clearinghouse website at http://www.vwrrc.vt.edu/swc.
 - c. The permittee may consider utilization of any pollutant trading or offset program in accordance with §§ 62.1-44.19:20 through 62.1-44.19:23 of the Code of Virginia, governing trading and offsetting, to meet the no net increase requirement.
- 10. Water quality protection. The discharges authorized by this permit shall be controlled as necessary to meet applicable water quality standards. The Board expects that compliance with the conditions in this permit will control discharges as necessary to meet applicable water quality standards.
- 11. Adding or deleting stormwater outfalls. The permittee may add new or delete existing stormwater outfalls at the facility as necessary and appropriate. The permittee shall update the SWPPP and notify the Department of all outfall changes within 30 days of the change. The permittee shall submit a copy of the updated SWPPP site map with their notification.
- 12. Antidegradation requirements for new or increased discharges to high quality waters. Facilities that add new outfalls, or increase their discharges from existing outfalls that discharge directly to high quality waters designated under Virginia's water quality standards antidegradation policy under 9VAC25-260-30 A 2 may be notified by the Department that additional control measures, or other permit conditions are necessary to comply with the

applicable antidegradation requirements, or may be notified that an individual permit is required in accordance with 9VAC25-31-170 B 3.

- 13. If the permittee discharges to surface waters through a municipal separate storm sewer system (MS4), the permittee shall, within 30 days of coverage under this general permit, notify the owner of the MS4 in writing of the existence of the discharge and provide the following information: the name of the facility, a contact person and phone number, the location of the discharge, the nature of the discharge, and the facility's VPDES general permit registration number. A copy of such notification shall be provided to the Department.
- 14. Termination of permit coverage.
 - a. The owner may terminate coverage under this general permit by filing a complete notice of termination. The notice of termination may be filed after one or more of the following conditions have been met:
 - (1) Operations have ceased at the facility and there are no longer discharges of stormwater associated with industrial activity from the facility;
 - (2) A new owner has assumed responsibility for the facility (Note: A notice of termination does not have to be submitted if a VPDES Change of Ownership Agreement Form has been submitted):
 - (3) All stormwater discharges associated with industrial activity have been covered by an individual VPDES permit; or
 - (4) Termination of coverage is being requested for another reason, provided the Board agrees that coverage under this general permit is no longer needed.
 - b. The notice of termination shall contain the following information:
 - (1) Owner's name, mailing address, telephone number, and email address (if available):
 - (2) Facility name and location;
 - (3) VPDES industrial stormwater general permit registration number;
 - (4) The basis for submitting the notice of termination, including:
 - (a) A statement indicating that a new owner has assumed responsibility for the facility;
 - (b) A statement indicating that operations have ceased at the facility, and there are no longer discharges of stormwater associated with industrial activity from the facility;
 - (c) A statement indicating that all stormwater discharges associated with industrial activity have been covered by an individual VPDES permit; or
 - (d) A statement indicating that termination of coverage is being requested for another reason (state the reason); and
 - (5) The following certification: "I certify under penalty of law that all stormwater discharges associated with industrial activity from the identified facility that are authorized by this VPDES general permit have been eliminated, or covered under a VPDES individual permit, or that I am no longer the owner of the industrial activity, or permit coverage should be terminated for another reason listed above. I understand that by submitting this notice of termination, that I am no longer authorized to discharge stormwater associated with industrial activity in accordance with the general permit, and that discharging pollutants in stormwater associated with industrial activity to surface waters is unlawful where the discharge is not authorized by a VPDES permit. I also understand that the submittal of this notice of termination

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does not release an owner from liability for any violations of this permit or the Clean Water Act."

- c. The notice of termination shall be signed in accordance with Part II K.
- d. The notice of termination shall be submitted to the DEQ regional office serving the area where the industrial facility is located.

PART II CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring.

- 1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.
- 2. Monitoring shall be conducted according to procedures approved under 40 CFR Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
- 3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.
- 4. Samples taken as required by this permit shall be analyzed in accordance with 1VAC30-45 (Certification for Noncommercial Environmental Laboratories) or 1VAC30-46 (Accreditation for Commercial Environmental Laboratories).

B. Records.

- 1. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individual(s) who performed the sampling or measurements:
 - c. The date(s) and time(s) analyses were performed;
 - d. The individual(s) who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
- 2. The permittee shall retain copies of the SWPPP, including any modifications made during the term of this permit, records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the registration statement for this permit, for a period of at least three years from the date that coverage under this permit expires or is terminated. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting monitoring results.

- 1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to the Department's regional office.
- 2. Monitoring results shall be reported on a discharge monitoring report (DMR) or on forms provided, approved or specified by the Department.
- 3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under 40 CFR Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted on the DMR or reporting form specified by the Department.
- 4. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

- D. Duty to provide information. The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating coverage under this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from the discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.
- E. Compliance schedule reports. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
- F. Unauthorized discharges. Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:
 - 1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or
 - 2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.
- G. Reports of unauthorized discharges. Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II F; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II F, shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department within five days of discovery of the discharge. The written report shall contain:
 - 1. A description of the nature and location of the discharge;
 - 2. The cause of the discharge;
 - 3. The date on which the discharge occurred;
 - 4. The length of time that the discharge continued;
 - 5. The volume of the discharge:
 - 6. If the discharge is continuing, how long it is expected to continue:
 - 7. If the discharge is continuing, what the expected total volume of the discharge will be; and
 - 8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of unusual or extraordinary discharges. If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II I 2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

- 1. Unusual spillage of materials resulting directly or indirectly from processing operations;
- 2. Breakdown of processing or accessory equipment;
- 3. Failure or taking out of service some or all of the treatment works; and
- 4. Flooding or other acts of nature.
- I. Reports of noncompliance. The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.
 - 1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:
 - a. Any unanticipated bypass; and
 - b. Any upset which causes a discharge to surface waters.
 - 2. A written report shall be submitted within five days and shall contain:
 - a. A description of the noncompliance and its cause;
 - b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
 - c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II I if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Part II I 1 or 2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II I 2.

NOTE: The immediate (within 24 hours) reports required in Part II G, H and I may be made to the Department's regional office. Reports may be made by telephone, FAX, or online at http://www.deq.virginia.gov/Programs/PollutionResponsePreparedness/MakingaReport.aspx. For reports outside normal working hours, a message may be left and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Management maintains a 24-hour telephone service at 1-800-468-8892.

- J. Notice of planned changes.
 - 1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
 - a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:
 - (1) After promulgation of standards of performance under § 306 of the Clean Water Act which are applicable to such source; or
 - (2) After proposal of standards of performance in accordance with § 306 of the Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with § 306 within 120 days of their proposal;
 - b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or

- c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- 2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory requirements.

- 1. Registration statement. All registration statements shall be signed as follows:
 - a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-making or decision-making functions for the corporation; or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit registration requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - c. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
- 2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II K 1 or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described in Part II K 1;
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or any individual occupying a named position; and
 - c. The written authorization is submitted to the Department.
- 3. Changes to authorization. If an authorization under Part II K 2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II K 2 shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.
- 4. Certification. Any person signing a document under Part II K 1 or 2 shall make the following 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 gather and evaluate 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."

L. Duty to comply. The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit coverage renewal application.

The permittee shall comply with effluent standards or prohibitions established under § 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under § 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

- M. Duty to reapply. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall submit a new registration statement at least 60 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for registration statements to be submitted later than the expiration date of the existing permit.
- N. Effect of a permit. This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.
- O. State law. Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by § 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II U), and "upset" (Part II V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.
- P. Oil and hazardous substance liability. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under §§ 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.
- Q. Proper operation and maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.
- R. Disposal of solids or sludges. Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

- S. Duty to mitigate. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
- T. Need to halt or reduce activity not a defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass.

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Part II U 2 and 3.

2. Notice.

- a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least 10 days before the date of the bypass.
- b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II I.
- 3. Prohibition of bypass.
 - a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (3) The permittee submitted notices as required under Part II U 2.
 - b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II U 3 a.

V. Upset.

- 1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II V 2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.
- 2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - b. The permitted facility was at the time being properly operated;
 - c. The permittee submitted notice of the upset as required in Part II I; and
 - d. The permittee complied with any remedial measures required under Part II S.
- 3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.
- W. Inspection and entry. The permittee shall allow the director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

- 1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- 3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- 4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

- X. Permit actions. Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.
- Y. Transfer of permits.

Permits are not transferable to any person except after notice to the Department.

Coverage under this permit may be automatically transferred to a new permittee if:

- 1. The current permittee notifies the Department within 30 days of the proposed transfer of the title to the facility or property, unless permission for a later date has been granted by the Board;
- 2. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
- 3. The Board does not notify the existing permittee and the proposed new permittee of its intent to deny the new permittee coverage under the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II Y 2.
- Z. Severability. The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby..

PART III STORMWATER POLLUTION PREVENTION PLAN

A Stormwater Pollution Prevention Plan (SWPPP) shall be developed and implemented for the facility covered by this permit. The SWPPP is intended to document the selection, design, and installation of control measures, including BMPs, to eliminate or reduce the pollutants in all stormwater discharges from the facility, and to meet applicable effluent limitations and water quality standards.

The SWPPP requirements of this general permit may be fulfilled, in part, by incorporating by reference other plans or documents such as a spill prevention control and countermeasure (SPCC) plan developed for the facility under § 311 of the Clean Water Act, or best management practices (BMP) programs otherwise required for the facility, provided that the incorporated plan meets or exceeds the plan requirements of Part III B (Contents of the Plan). All plans incorporated by reference into the SWPPP become enforceable under this permit. If a plan incorporated by reference does not contain all of the required elements of the SWPPP of Part III B, the permittee shall develop the missing SWPPP elements and include them in the required plan.

A. Deadlines for plan preparation and compliance.

- 1. Facilities that were covered under the 2009 Industrial Stormwater General Permit. Owners of facilities that were covered under the 2009 Industrial Stormwater General Permit who are continuing coverage under this general permit shall update and implement any revisions to the SWPPP within 90 days of the Board granting coverage under this permit.
- 2. New facilities, facilities previously covered by an expiring individual permit, and existing facilities not currently covered by a VPDES permit. Owners of new facilities, facilities previously covered by an expiring individual permit, and existing facilities not currently covered by a VPDES permit who elect to be covered under this general permit shall prepare and implement the SWPPP prior to submitting the registration statement.
- 3. New owners of existing facilities. Where the owner of an existing facility that is covered by this permit changes, the new owner of the facility shall update and implement any revisions to the SWPPP within 60 days of the ownership change.
- 4. Extensions. Upon a showing of good cause, the director may establish a later date in writing for the preparation and compliance with the SWPPP.
- B. Contents of the plan. The contents of the SWPPP shall comply with the requirements listed below and those in the appropriate sectors of Part IV. These requirements are cumulative. If a facility has co-located activities that are covered in more than one sector of Part IV, that facility's pollution prevention plan shall comply with the requirements listed in all applicable sectors. The following requirements are applicable to all SWPPPs developed under this general permit. The plan shall include, at a minimum, the following items:
 - 1. Pollution prevention team. The plan shall identify the staff individuals by name or title who comprise the facility's stormwater pollution prevention team. The pollution prevention team is responsible for assisting the facility or plant manager in developing, implementing, maintaining, revising and ensuring compliance with the facility's SWPPP. Specific responsibilities of each staff individual on the team shall be identified and listed.
 - 2. Site description. The SWPPP shall include the following:
 - a. Activities at the facility. A description of the nature of the industrial activities at the facility.

- b. General location map. A general location map (e.g., USGS quadrangle or other map) with enough detail to identify the location of the facility and the receiving waters within one mile of the facility.
- c. Site map. A site map identifying the following:
 - (1) The boundaries of the property and the size of the property (in acres);
 - (2) The location and extent of significant structures and impervious surfaces (roofs, paved areas and other impervious areas);
 - (3) Locations of all stormwater conveyances including ditches, pipes, swales, and inlets, and the directions of stormwater flow (use arrows to show which ways stormwater will flow);
 - (4) Locations of all existing structural and source control measures, including BMPs;
 - (5) Locations of all surface water bodies, including wetlands;
 - (6) Locations of potential pollutant sources identified under Part III B 3;
 - (7) Locations where significant spills or leaks identified under Part III B 3 c have occurred;
 - (8) Locations of the following activities where such activities are exposed to precipitation: fueling stations; vehicle and equipment maintenance and cleaning areas; loading and unloading areas; locations used for the treatment, storage or disposal of wastes; liquid storage tanks; processing and storage areas; access roads, rail cars and tracks; transfer areas for substances in bulk; and machinery;
 - (9) Locations of stormwater outfalls and an approximate outline of the area draining to each outfall, and location of municipal storm sewer systems, if the stormwater from the facility discharges to them. Outfalls shall be numbered using a unique numerical identification code for each outfall (e.g., Outfall No. 001, No. 002, etc.);
 - (10) Location and description of all non-stormwater discharges;
 - (11) Location of any storage piles containing salt used for deicing or other commercial or industrial purposes;
 - (12) Locations and sources of runon to the site from adjacent property, where the runon contains significant quantities of pollutants; and
 - (13) Locations of all stormwater monitoring points.
- d. Receiving waters and wetlands. The name of all surface waters receiving discharges from the site, including intermittent streams, dry sloughs, and arroyos. Provide a description of wetland sites that may receive discharges from the facility. If the facility discharges through a municipal separate storm sewer system (MS4), identify the MS4 operator, and the receiving water to which the MS4 discharges.
- 3. Summary of potential pollutant sources. The plan shall identify each separate area at the facility where industrial materials or activities are exposed to stormwater. Industrial materials or activities include, but are not limited to: material handling equipment or activities, industrial machinery, raw materials, industrial production and processes, intermediate products, byproducts, final products, and waste products. Material handling activities include, but are not limited to: the storage, loading and unloading, transportation, disposal, or conveyance of any raw material, intermediate product, final product or waste product. For each separate area identified, the description shall include:
 - a. Activities in the area. A list of the industrial activities exposed to stormwater (e.g., material storage, equipment fueling and cleaning, cutting steel beams);
 - b. Pollutants. A list of the pollutant(s) or pollutant constituents (e.g., crankcase oil, zinc, sulfuric acid, cleaning solvents, etc.) associated with each industrial activity. The

pollutant list shall include all significant materials handled, treated, stored or disposed that have been exposed to stormwater in the three years prior to the date this SWPPP was prepared or amended. The list shall include any hazardous substances or oil at the facility.

- c. Spills and leaks. The SWPPP shall clearly identify areas where potential spills and leaks that can contribute pollutants to stormwater discharges can occur and their corresponding outfalls. The plan shall include a list of significant spills and leaks of toxic or hazardous pollutants that actually occurred at exposed areas, or that drained to a stormwater conveyance during the three-year period prior to the date this SWPPP was prepared or amended. The list shall be updated if significant spills or leaks occur in exposed areas of the facility during the term of the permit. Significant spills and leaks include, but are not limited to, releases of oil or hazardous substances in excess of reportable quantities.
- d. Sampling data. The plan shall include a summary of existing stormwater discharge sampling data taken at the facility. The summary shall include, at a minimum, any data collected during the previous permit term.

4. Stormwater controls.

a. Control measures shall be implemented for all the areas identified in Part III B 3 (summary of potential pollutant sources) to prevent or control pollutants in stormwater discharges from the facility. Regulated stormwater discharges from the facility include stormwater runon that commingles with stormwater discharges associated with industrial activity at the facility. The SWPPP shall describe the type, location and implementation of all control measures for each area where industrial materials or activities are exposed to stormwater.

Selection of control measures shall take into consideration:

- (1) That preventing stormwater from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from stormwater;
- (2) Control measures generally shall be used in combination with each other for most effective water quality protection;
- (3) Assessing the type and quantity of pollutants, including their potential to impact receiving water quality, is critical to designing effective control measures;
- (4) That minimizing impervious areas at the facility can reduce runoff and improve groundwater recharge and stream base flows in local streams (however, care must be taken to avoid ground water contamination);
- (5) Flow attenuation by use of open vegetated swales and natural depressions can reduce in-stream impacts of erosive flows;
- (6) Conservation or restoration of riparian buffers will help protect streams from stormwater runoff and improve water quality; and
- (7) Treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some instances to minimize the discharge of pollutants.
- b. Nonnumeric technology-based effluent limits. The permittee shall implement the following types of control measures to prevent and control pollutants in the stormwater discharges from the facility, unless it can be demonstrated and documented that such controls are not relevant to the discharges (e.g., there are no storage piles containing salt).

- (1) Good housekeeping. The permittee shall keep clean all exposed areas of the facility that are potential sources of pollutants to stormwater discharges. Typical problem areas include areas around trash containers, storage areas, loading docks, and vehicle fueling and maintenance areas. The plan shall include a schedule for regular pickup and disposal of waste materials, along with routine inspections for leaks and conditions of drums, tanks and containers.
- (2) Eliminating and minimizing exposure. To the extent practicable, manufacturing, processing, and material storage areas (including loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations) shall be located inside, or protected by a storm-resistant covering to prevent exposure to rain, snow, snowmelt, and runoff. Note: Eliminating exposure at all industrial areas may make the facility eligible for the "Conditional Exclusion for No Exposure" provision of 9VAC25-31-120 E, thereby eliminating the need to have a permit.
- (3) Preventive maintenance. The permittee shall have a preventive maintenance program that includes regular inspection, testing, maintenance and repairing of all industrial equipment and systems to avoid situations that could result in leaks, spills and other releases of pollutants in stormwater discharged from the facility. This program is in addition to the specific control measure maintenance required under Part III C (Maintenance of control measures).
- (4) Spill prevention and response procedures. The plan shall describe the procedures that will be followed for preventing and responding to spills and leaks, including:
 - (a) Preventive measures, such as barriers between material storage and traffic areas, secondary containment provisions, and procedures for material storage and handling;
 - (b) Response procedures, including notification of appropriate facility personnel, emergency agencies, and regulatory agencies, and procedures for stopping, containing and cleaning up spills. Measures for cleaning up hazardous material spills or leaks shall be consistent with applicable RCRA regulations at 40 CFR Part 264 and 40 CFR Part 265. Employees who may cause, detect or respond to a spill or leak shall be trained in these procedures and have necessary spill response equipment available. If possible, one of these individuals shall be a member of the Pollution Prevention Team;
 - (c) Procedures for plainly labeling containers (e.g., "used oil," "spent solvents," "fertilizers and pesticides," etc.) that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur; and
 - (d) Contact information for individuals and agencies that must be notified in the event of a spill shall be included in the SWPPP, and in other locations where it will be readily available.
- (5) Salt storage piles or piles containing salt. Storage piles of salt or piles containing salt used for deicing or other commercial or industrial purposes shall be enclosed or covered to prevent exposure to precipitation. The permittee shall implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile. All salt storage piles shall be located on an impervious surface. All runoff from the pile, and runoff that comes in contact with salt, including under drain systems, shall be collected and contained within a bermed basin lined with concrete or other impermeable materials, or within an underground storage tank or tanks, or within an

above ground storage tank or tanks, or disposed of through a sanitary sewer (with the permission of the owner of the treatment facility). A combination of any or all of these methods may be used. In no case shall salt contaminated stormwater be allowed to discharge directly to the ground or to surface waters.

- (6) Employee training. The permittee shall implement a stormwater employee training program for the facility. The SWPPP shall include a schedule for all types of necessary training, and shall document all training sessions and the employees who received the training. Training shall be provided for all employees who work in areas where industrial materials or activities are exposed to stormwater, and for employees who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel, etc.). The training shall cover the components and goals of the SWPPP, and include such topics as spill response, good housekeeping, material management practices, control measure operation and maintenance, etc. The SWPPP shall include a summary of any training performed.
- (7) Sediment and erosion control. The plan shall identify areas at the facility that, due to topography, land disturbance (e.g., construction, landscaping, site grading), or other factors, have a potential for soil erosion. The permittee shall identify and implement structural, vegetative, and stabilization control measures to prevent or control on-site and off-site erosion and sedimentation. Flow velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel if the flows would otherwise create erosive conditions.
- (8) Management of runoff. The plan shall describe the stormwater runoff management practices (i.e., permanent structural control measures) for the facility. These types of control measures are typically used to divert, infiltrate, reuse, or otherwise reduce pollutants in stormwater discharges from the site.
- Structural control measures may require a separate permit under § 404 of the CWA and the Virginia Water Protection Permit Program Regulation (9VAC25-210) before installation begins.
- (9) Dust suppression and vehicle tracking of industrial materials. The permittee shall implement control measures to minimize the generation of dust and off-site tracking of raw, final, or waste materials. Stormwater collected on-site may be used for the purposes of dust suppression or for spraying stockpiles. Potable water, well water, and uncontaminated reuse water may also be used for this purpose. There shall be no direct discharge to surface waters from dust suppression activities or as a result of spraying stockpiles.
- 5. Routine facility inspections. Facility personnel who possess the knowledge and skills to assess conditions and activities that could impact stormwater quality at the facility and who can also evaluate the effectiveness of control measures shall regularly inspect all areas of the facility where industrial materials or activities are exposed to stormwater. These inspections are in addition to, or as part of, the comprehensive site evaluation required under Part III E. At least one member of the pollution prevention team shall participate in the routine facility inspections.

The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be at a minimum quarterly unless more frequent intervals are specified elsewhere in the permit or written approval is received from the Department for less frequent intervals. Inspections shall be performed during periods when the facility is in operation. At least once each calendar year, the routine facility inspection shall be conducted during a period when a stormwater discharge is occurring.

The requirement for routine facility inspections is waived for facilities that have maintained an active VEEP E3/E4 status. Note: Certain sectors in Part IV have additional inspection requirements. If the VEEP E3/E4 waiver language is not included for the sector specific inspections, these additional inspection requirements may not be waived.

Any deficiencies in the implementation of the SWPPP that are found shall be corrected as soon as practicable, but not later than within 30 days of the inspection, unless permission for a later date is granted in writing by the director. The results of the inspections shall be documented in the SWPPP and shall include at a minimum:

- a. The inspection date and time;
- b. The name(s) and signature(s) of the inspector(s);
- c. Weather information and a description of any discharges occurring at the time of the inspection;
- d. Any previously unidentified discharges of pollutants from the site;
- e. Any control measures needing maintenance or repairs;
- f. Any failed control measures that need replacement;
- g. Any incidents of noncompliance observed; and
- h. Any additional control measures needed to comply with the permit requirements.
- C. Maintenance. The SWPPP shall include a description of procedures and a regular schedule for preventive maintenance of all control measures, and shall include a description of the back-up practices that are in place should a runoff event occur while a control measure is off-line. The effectiveness of nonstructural control measures shall also be maintained by appropriate means (e.g., spill response supplies available and personnel trained, etc.).

All control measures identified in the SWPPP shall be maintained in effective operating condition and shall be observed at least annually during active operation (i.e., during a stormwater runoff event) to ensure that they are functioning correctly. Where discharge locations are inaccessible, nearby downstream locations shall be observed. The observations shall be documented in the SWPPP.

If site inspections required by Part III B 5 (Routine facility inspections) or Part III E (Comprehensive site compliance evaluation) identify control measures that are not operating effectively, repairs or maintenance shall be performed before the next anticipated storm event. If maintenance prior to the next anticipated storm event is not possible, maintenance shall be scheduled and accomplished as soon as practicable. In the interim, back-up measures shall be employed and documented in the SWPPP until repairs or maintenance is complete. Documentation shall be kept with the SWPPP of maintenance and repairs of control measures, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair or replacement, date(s) for repairs, date(s) that the control measure(s) returned to full function, and the justification for any extended maintenance or repair schedules.

D. Non-stormwater discharges.

- 1. Discharges of certain sources of non-stormwater are allowable discharges under this permit (see Part I B, special condition 1 Allowable non-stormwater discharges). All other non-stormwater discharges are not authorized and shall be either eliminated or covered under a separate VPDES permit.
- 2. Annual outfall evaluation for unauthorized discharges.
 - a. The SWPPP shall include documentation that all stormwater outfalls associated with industrial activity have been evaluated annually for the presence of unauthorized discharges (i.e., discharges other than stormwater; the authorized non-stormwater

discharges described in Part I B, special condition 1; or discharges covered under a separate VPDES permit, other than this permit). The documentation shall include:

- (1) The date of the evaluation;
- (2) A description of the evaluation criteria used;
- (3) A list of the outfalls or on-site drainage points that were directly observed during the evaluation;
- (4) A description of the results of the evaluation for the presence of unauthorized discharges; and
- (5) The actions taken to eliminate unauthorized discharges if any were identified (i.e., a floor drain was sealed, a sink drain was rerouted to sanitary, or a VPDES permit application was submitted for a cooling water discharge).
- b. The permittee may request in writing to the Department that the facility be allowed to conduct annual outfall evaluations at 20% of the outfalls. If approved, the permittee shall evaluate at least 20% of the facility outfalls each year on a rotating basis such that all facility outfalls will be evaluated during the period of coverage under this permit.
- E. Comprehensive site compliance evaluation. The permittee shall conduct comprehensive site compliance evaluations at least once each calendar year after coverage under the permit begins. The evaluations shall be done by qualified personnel who possess the knowledge and skills to assess conditions and activities that could impact stormwater quality at the facility, and who can also evaluate the effectiveness of control measures. The personnel conducting the evaluations may be either facility employees or outside personnel hired by the facility.
 - 1. Scope of the compliance evaluation. Evaluations shall include all areas where industrial materials or activities are exposed to stormwater, as identified in Part III B 3. The personnel shall evaluate:
 - a. Industrial materials, residue or trash that may have or could come into contact with stormwater;
 - b. Leaks or spills from industrial equipment, drums, barrels, tanks or other containers that have occurred within the past three years;
 - c. Off-site tracking of industrial or waste materials or sediment where vehicles enter or exit the site;
 - d. Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas;
 - e. Evidence of, or the potential for, pollutants entering the drainage system;
 - f. Evidence of pollutants discharging to surface waters at all facility outfalls, and the condition of and around the outfall, including flow dissipation measures to prevent scouring;
 - g. Review of stormwater related training performed, inspections completed, maintenance performed, quarterly visual examinations, and effective operation of control measures, including BMPs;
 - h. A summary of the annual outfall evaluation for unauthorized discharges required by subsection D 2 of this section.
 - i. Results of both visual and any analytical monitoring done during the past year shall be taken into consideration during the evaluation.
 - 2. Based on the results of the evaluation, the SWPPP shall be modified as necessary (e.g., show additional controls on the map required by Part III B 2 c; revise the description of controls required by Part III B 4 to include additional or modified control measures designed to correct problems identified). Revisions to the SWPPP shall be completed within 30 days

following the evaluation, unless permission for a later date is granted in writing by the director. If existing control measures need to be modified or if additional control measures are necessary, implementation shall be completed before the next anticipated storm event, if practicable, but not more than 60 days after completion of the comprehensive site evaluation, unless permission for a later date is granted in writing by the Department;

- 3. Compliance evaluation report. A report shall be written summarizing the scope of the evaluation, name(s) of personnel making the evaluation, the date of the evaluation, and all observations relating to the implementation of the SWPPP, including elements stipulated in Part III E 1 (a) through (i) above. Observations shall include such things as: the location(s) of discharges of pollutants from the site; location(s) of previously unidentified sources of pollutants; location(s) of control measures that need to be maintained or repaired; location(s) of failed control measures that need replacement; and location(s) where additional control measures are needed. The report shall identify any incidents of noncompliance that were observed. Where a report does not identify any incidents of noncompliance, the report shall contain a certification that the facility is in compliance with the SWPPP and this permit. The report shall be signed in accordance with Part II K and maintained with the SWPPP.
- 4. Where compliance evaluation schedules overlap with routine inspections required under Part III B 5 the annual compliance evaluation may be used as one of the routine inspections.

F. Signature and plan review.

- 1. Signature and location. The SWPPP, including revisions to the SWPPP to document any corrective actions taken as required by Part I A 6, shall be signed in accordance with Part II K, dated, and retained on-site at the facility covered by this permit in accordance with Part II B 2. All other changes to the SWPPP, and other permit compliance documentation, shall be signed and dated by the person preparing the change or documentation. For inactive facilities, the plan may be kept at the nearest office of the permittee.
- 2. Availability. The permittee shall retain a copy of the current SWPPP required by this permit at the facility, and it shall be immediately available to the Department, EPA, or the operator of an MS4 receiving discharges from the site at the time of an on-site inspection or upon request.
- 3. Required modifications. The permittee shall modify the SWPPP whenever necessary to address all corrective actions required by Part I A 6 a (Data exceeding benchmark concentration values) or Part I A 6 b (Corrective actions). Changes to the SWPPP shall be made in accordance with the corrective action deadlines in Part I A 6 a and Part I A 6 b, and shall be signed and dated in accordance with Part III F 1.

The director may notify the permittee at any time that the SWPPP, control measures, or other components of the facility's stormwater program do not meet one or more of the requirements of this permit. The notification shall identify specific provisions of the permit that are not being met, and may include required modifications to the stormwater program, additional monitoring requirements, and special reporting requirements. The permittee shall make any required changes to the SWPPP within 60 days of receipt of such notification, unless permission for a later date is granted in writing by the director, and shall submit a written certification to the director that the requested changes have been made.

G. Maintaining an updated SWPPP.

- 1. The permittee shall review and amend the SWPPP as appropriate whenever:
 - a. There is construction or a change in design, operation, or maintenance at the facility that has a significant effect on the discharge, or the potential for the discharge, of pollutants from the facility;

- b. Routine inspections or compliance evaluations determine that there are deficiencies in the control measures, including BMPs;
- c. Inspections by local, state, or federal officials determine that modifications to the SWPPP are necessary;
- d. There is a spill, leak or other release at the facility;
- e. There is an unauthorized discharge from the facility; or
- f. The Department notifies the permittee that a TMDL has been developed and applies to the permitted facility, consistent with Part I B, special condition 7 (Discharges to waters subject to TMDL wasteload allocations).
- 2. SWPPP modifications shall be made within 30 calendar days after discovery, observation or event requiring a SWPPP modification. Implementation of new or modified control measures (distinct from regular preventive maintenance of existing control measures described in Part III C) shall be initiated before the next storm event if possible, but no later than 60 days after discovery, or as otherwise provided or approved by the director. The amount of time taken to modify a control measure or implement additional control measures shall be documented in the SWPPP.
- 3. If the SWPPP modification is based on a release or unauthorized discharge, include a description and date of the release, the circumstances leading to the release, actions taken in response to the release, and measures to prevent the recurrence of such releases. Unauthorized releases and discharges are subject to the reporting requirements of Part II G of this permit.

PART IV SECTOR SPECIFIC PERMIT REQUIREMENTS

The permittee must only comply with the additional requirements of Part IV that apply to the sector(s) of industrial activity located at the facility. These sector specific requirements are in addition to the "basic" requirements specified in Parts I, II and III of this permit. All numeric effluent limitations and benchmark monitoring concentration values reflect two significant digits, unless otherwise noted.

Sector S - Air Transportation.

A. Discharges covered under this section. The requirements listed under this section apply to stormwater discharges associated with industrial activity from air transportation facilities including airports, airport terminal services, air transportation (scheduled and nonscheduled), flying fields, air courier services, and establishments engaged in operating and maintaining airports, and servicing, repairing or maintaining aircraft (generally classified under SIC Code 45), which have vehicle maintenance shops, material handling facilities, equipment cleaning operations, or airport or aircraft deicing or anti-icing operations. For the purpose of this section, the term "deicing" is defined as the process to remove frost, snow, or ice and "anti-icing" is the process which prevents the accumulation of frost, snow, or ice. Only those portions of the facility that are either involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, or deicing or anti-icing operations are addressed under this section.

- B. Special definitions. The following definitions are only for this section of the general permit:
- "Aircraft deicing fluid" or "ADF" means a fluid (other than hot water) applied to aircraft to remove or prevent any accumulation of snow or ice on the aircraft. This includes deicing and anti-icing fluids.
- "Airfield pavement" means all paved surfaces on the airside of an airport.
- "Airside" means the part of an airport directly involved in the arrival and departure of aircraft, including runways, taxiways, aprons, and ramps.
- "Annual non-propeller aircraft departures" means the average number of commercial turbineengine aircraft that are propelled by jet (i.e., turbojet or turbofan) that take off from an airport on an annual basis, as tabulated by the Federal Aviation Administration (FAA).
- "Available ADF" means 75% of the normalized Type I aircraft deicing fluid and 10% of the normalized Type IV aircraft deicing fluid, excluding aircraft deicing fluids used for defrosting or deicing for safe taxiing.
- "Collection requirement" means, for new sources, the requirement for permittee to collect available ADF.
- "Defrosting" means the removal of frost contamination from an aircraft when there has been no active precipitation.
- "Deicing" mean procedures and practices to remove or prevent any accumulation of snow or ice on:
 - (1) An aircraft; or
 - (2) Airfield pavement.
- "Normalized Type I or Type IV aircraft deicing fluid" means ADF less any water added by the manufacturer or customer before ADF application.
- "Primary airport" means an airport defined at 49 USC § 47102 (15).
- C. Special conditions. Prohibition of non-stormwater discharges. In addition to the general non-stormwater prohibition in Part I B 1, the following discharges are not covered by this permit:

aircraft, ground vehicle, runway and equipment washwaters, and dry weather discharges of deicing or anti-icing chemicals. These discharges must be covered by a separate VPDES permit. Note: Discharge resulting from snowmelt is not a dry weather discharge.

D. Stormwater pollution prevention plan requirements. SWPPPs developed for areas of the facility occupied by tenants of the airport shall be integrated with the plan for the entire airport. For the purposes of this permit, tenants of the airport facility include airline passenger or cargo companies, fixed based operators and other parties who have contracts with the airport authority to conduct business operations on airport property and whose operations result in stormwater discharges associated with industrial activity. In addition to the requirements of Part III, the SWPPP shall include, at a minimum, the following items.

1. Site description.

- a. Site map. The site map shall identify the location of the following activities and indicate any of the activities that may be exposed to precipitation or surface runoff: aircraft and runway deicing or anti-icing operations; fueling stations; aircraft, ground vehicle and equipment maintenance and cleaning areas; and storage areas for aircraft, ground vehicles and equipment awaiting maintenance.
- b. Summary of potential pollutant sources. The plan shall include a narrative description of the potential pollutant sources from the following activities: aircraft, runway, ground vehicle and equipment maintenance and cleaning; aircraft and runway deicing or anticing operations (including apron and centralized aircraft deicing or anticing stations, runways, taxiways, and ramps). Facilities which conduct deicing or anticing operations shall maintain a record of the types (including the safety data sheets (SDS)) and monthly quantities of deicing or anticing chemicals used, either as measured amounts, or in the absence of metering, as estimated amounts. This includes all deicing or anticing chemicals, not just glycols and urea (e.g., potassium acetate). Tenants and fixed-base operators who conduct deicing or anticing operations shall provide the above information to the airport authority for inclusion in the stormwater pollution prevention plan for the entire facility.
- c. Deicing season. The SWPPP shall define the average seasonal timeframe (e.g., December-February, October-March, etc.) during which deicing activities typically occur at the facility. Implementation of control measures, including any BMPs, facility inspections, and effluent limitation monitoring shall be conducted with particular emphasis throughout the defined deicing season.

2. Stormwater controls.

a. Good housekeeping.

- (1) Aircraft, ground vehicle and equipment maintenance areas. The permittee shall describe and implement measures that prevent or minimize the contamination of stormwater runoff from all areas used for aircraft, ground vehicle and equipment maintenance (including the maintenance conducted on the terminal apron and in dedicated hangars). Appropriate control measures (or their equivalents) shall be implemented, such as the following practices: performing maintenance activities indoors; maintaining an organized inventory of materials used in the maintenance areas; draining all parts of fluids prior to disposal; preventing the practice of hosing down the apron or hangar floor; using dry cleanup methods; and collecting the stormwater runoff from the maintenance area and providing treatment or recycling.
- (2) Aircraft, ground vehicle and equipment cleaning areas. Permittees shall ensure that cleaning of equipment is conducted in designated areas only and clearly identify these areas on the ground and delineate them on the site map. The permittee shall

describe and implement measures that prevent or minimize the contamination of the stormwater runoff from cleaning areas.

- (3) Aircraft, ground vehicle and equipment storage areas. The storage of aircraft, ground vehicles and equipment awaiting maintenance shall be confined to designated areas (delineated on the site map). Appropriate control measures, including any BMPs (or their equivalents) shall be implemented, such as the following practices: indoor storage of aircraft and ground vehicles; the use of drip pans for the collection of fluid leaks; and perimeter drains, dikes or berms surrounding storage areas.
- (4) Material storage areas. Storage vessels of all materials (e.g., used oils, hydraulic fluids, spent solvents, and waste aircraft fuel) shall be maintained in good condition, so as to prevent or minimize contamination of stormwater, and plainly labeled (e.g., "used oil," "Contaminated Jet A," etc.). The permittee shall describe and implement measures that prevent or minimize contamination of precipitation or runoff from storage areas. Appropriate control measures (or their equivalents) shall be implemented, such as the following practices: indoor storage of materials; centralized storage areas for waste materials; and installation of berms and dikes around storage areas.
- (5) Airport fuel system and fueling areas. The permittee shall describe and implement measures that prevent or minimize the discharge of fuels to the storm sewer or surface waters resulting from fuel servicing activities or other operations conducted in support of the airport fuel system. Appropriate control measures (or their equivalents) shall be implemented, such as the following practices: implementing spill and overflow practices (e.g., placing absorptive materials beneath aircraft during fueling operations); using dry cleanup methods; and collecting the stormwater runoff.
- b. Source reduction. The permittee shall minimize, and where practicable eliminate, the use of urea and glycol-based deicing or anti-icing chemicals in order to reduce the aggregate amount of deicing or anti-icing chemicals used and lessen the environmental impact. Chemical options to replace ethylene glycol, propylene glycol and urea include: potassium acetate; magnesium acetate; calcium acetate; anhydrous sodium acetate.
 - (1) Runway deicing operations. The permittee shall minimize contamination of stormwater runoff from runways as a result of deicing operations. The permittee shall evaluate present application rates to ensure against excessive over application by analyzing application rates and adjusting as necessary, consistent with considerations of flight safety. Appropriate control measures, (or their equivalents) shall be implemented, such as the following practices: metered application of chemicals; prewetting dry chemical constituents prior to application; installation of runway ice detection systems; implementing anti-icing operations as a preventive measure against ice buildup.
 - (2) Aircraft deicing operations. The permittee shall minimize contamination of stormwater runoff from aircraft deicing operations. The permittee shall determine whether excessive application of deicing chemicals occurs, and adjust as necessary, consistent with considerations of flight safety. This evaluation shall be carried out by the personnel most familiar with the particular aircraft and flight operations in question (versus an outside entity such as the airport authority). The use of alternative deicing or anti-icing agents as well as containment measures for all applied chemicals shall be considered. Appropriate control measures (or their equivalents) shall be implemented for reducing deicing fluid use, such as the

following practices: forced-air deicing systems; computer-controlled fixed-gantry systems; infrared technology; hot water; varying glycol content to air temperature; enclosed-basket deicing trucks; mechanical methods; solar radiation; hangar storage; aircraft covers; and thermal blankets for MD-80s and DC-9s. The use of ice-detection systems and airport traffic flow strategies and departure slot allocation systems shall also be considered where practicable.

- c. Management of runoff. Where deicing operations occur, the permittee shall implement a program to control or manage contaminated runoff to minimize the amount of pollutants being discharged from the site. The plan shall describe the controls used for collecting or containing contaminated melt water from collection areas used for disposal of contaminated snow. The following control measure options (or their equivalents) shall be considered: establishing a dedicated deicing facility with a runoff collection and recovery system; using vacuum or collection trucks; storing contaminated stormwater water or deicing fluids in tanks and releasing controlled amounts to a publicly owned treatment works; collecting contaminated runoff in a wet pond for biochemical decomposition (be aware of attracting wildlife that may prove hazardous to flight operations); and directing runoff into vegetative swales or other infiltration measures. The plan shall consider the recovery of deicing and anti-icing materials when these materials are applied during nonprecipitation events (e.g., covering storm sewer inlets, using booms, installing absorptive interceptors in the drains, etc.) to prevent these materials from later becoming a source of stormwater contamination. Used deicing fluid shall be recycled whenever possible.
- d. Routine facility inspections. The inspection frequency shall be specified in the plan. At a minimum, inspections shall be conducted once per month during deicing and anticing season (e.g., October through April for most airports). If deicing occurs before or after this period, the inspections shall be expanded to include all months during which deicing chemicals may be used.
- e. Comprehensive site compliance evaluation. The annual site compliance evaluations shall be conducted by qualified facility personnel during periods of actual deicing operations, if possible. If not practicable during active deicing or if the weather is too inclement, the evaluations shall be conducted when deicing operations are likely to occur and the materials and equipment for deicing are in place.
- E. Numeric effluent limitations. The average deicing season identified in the SWPPP is the time frame during which any effluent limitation monitoring samples shall be obtained.
 - 1. Airfield pavement deicing. Existing primary airports and primary airports meeting the definition of a new source (new primary airports) with at least 1,000 annual jet departures (non-propeller aircraft) that discharge wastewater associated with airport pavement deicing comingled with stormwater shall either use deicing products that do not contain urea or alternatively, airfield pavement discharges at every discharge point shall achieve the numeric limitations for ammonia in Table 260-1, prior to any dilution or commingling with any non-deicing discharge. Primary airports that only use deicing products that do not contain urea shall certify this fact annually to the Board. The certification shall be signed in accordance with Part II K, and a copy of the certification shall be kept with the SWPPP.

Table 260-1 Sector S – Numeric Effluent Limitations, Existing and New Primary Airports

Airfield Pavement Deicing	
Parameter	Effluent Limitations - Daily Maximum
Ammonia as Nitrogen	14.7 mg/L

2. Aircraft deicing. Airports meeting the definition of a new source (new airports) with 10,000 annual departures, and located in cold climate zones, shall collect at least 60% of available ADF after deicing. New airports shall achieve the performance standards in Table 260-2 for available ADF collected. The limitation shall be met at the location where the effluent leaves the on-site treatment system utilized for meeting these requirements and before commingling with any non-deicing discharge.

Table 260-2 Sector S – Numeric Effluent Limitations, New Primary Airports

Aircraft Deicing				
Parameter	Effluent Limitations			
Parameter	Daily Maximum	Weekly Average		
Chemical Oxygen Demand (COD)	271 mg/L	154 mg/L		

- 3. Monitoring, reporting, and recordkeeping requirements.
 - a. Demonstrating compliance with the ADF collection requirement for dischargers subject to the requirements in subdivision E 2 of this subsection.
 - (1) The permittee shall maintain records with the SWPPP to demonstrate that the airport is operating and maintaining one or more centralized deicing pads, and shall certify this annually to the Board. The certification shall be signed in accordance with Part II K, and a copy of the certification shall be kept with the SWPPP.

The centralized deicing pad technology shall be operated and maintained according to the technical specifications set forth in paragraphs (a) through (d) of this subsection. The demonstration and valid certification are sufficient to meet the applicable collection requirement without the permittee having to determine the numeric percentage of available ADF collected.

- (a) Each centralized deicing pad shall be sized and sited in accordance with all applicable FAA advisory circulars.
- (b) Drainage valves associated with the centralized deicing pad shall be activated before deicing activities commence, to collect available ADF.
- (c) The centralized deicing pad and associated collection equipment shall be installed and maintained per any applicable manufacturers' instructions, and shall be inspected, at a minimum, at the beginning of each deicing season to ensure that the pad and associated equipment are in working condition.
- (d) All aircraft deicing shall take place on a centralized deicing pad, with the exception of defrosting and deicing for safe taxiing.
- (2) The permittee shall maintain records with the SWPPP on the volume of ADF sprayed and the amount of available ADF collected in order to determine compliance with the collection requirement, and shall report this information annually to the Department.
- b. Monitoring requirements.
 - (1) COD limitation. Permittees subject to the ADF collection and discharge requirements specified in subdivision E 2 of this subsection shall conduct effluent monitoring to demonstrate compliance with the COD limitation for all ADF that is collected.

Compliance shall be demonstrated at the location where the effluent leaves the onsite treatment system utilized for meeting these requirements and before

- commingling with any non-deicing discharge. Effluent samples shall be collected following the grab sample protocol in 40 CFR 449, Appendix A.
- (2) Ammonia limitation. If a permittee chooses to comply with the compliance alternative specified in subdivision E 1 of this subsection, the permittee shall conduct effluent monitoring at all locations where pavement deicing with a product that contains urea is occurring, prior to any dilution or commingling with any non-deicing discharge.

c. Recordkeeping.

- (1) The permittee shall maintain records with the SWPPP documenting compliance with subdivisions E 3 a and E 3 b of this subsection. These records include, but are not limited to, documentation of wastewater samples collected and analyzed, certifications, and equipment maintenance schedules and agreements.
- (2) The permittee shall collect and maintain data with the SWPPP on the annual volume of ADF used.
- F. Benchmark monitoring and reporting requirements. Stormwater discharges from those portions of air transportation facilities where vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), and equipment cleaning is performed shall be sampled for the parameters listed in Table 260-3. Note: The benchmark monitoring requirements apply year round and are not limited to the deicing season.

Table 260-3 Sector S – Benchmark Monitoring Requirements

Pollutants of Concern	Benchmark Concentration		
Air Transportation Facilities (SIC 45).			
Total Suspended Solids (TSS)	100 mg/L		
Total Petroleum Hydrocarbons (TPH)*	15.0 mg/L		

^{*}Total Petroleum Hydrocarbons (TPH) is the sum of individual gasoline range organics and diesel range organics (TPH-GRO and TPH-DRO) to be measured by EPA SW 846 Method 8015 for gasoline and diesel range organics, or by EPA SW 846 Methods 8260 Extended and 8270 Extended.



Chesterfield County, Virginia Department of General Services

Environmental Division

6751 Mimms Loop – P.O. Box 40 – Chesterfield, VA 23832 Phone: (804)748-1297 – Fax: (804) 748-3032 – Internet: chesterfield.gov

ROBERT C. KEY Director

May 12, 2014

Department of Environmental Quality Piedmont Regional Office 4949-A Cox Road Glen Allen, Virginia 23060

Phone: (804) 527-5012 Fax: (804) 527-5106

Subject: VPDES General Permit Registration Statement-Industrial Activity Storm Water Discharges

Storm Water Permit Re-Issuance - Chesterfield County Airport, VAR05!129

Dear Sir or Madam:

Please find enclosed the General Permit Registration Statement for Storm Water Discharges and the requested support documents for the Chesterfield County Airport.

Please advise if there are any questions or if any additional information is required.

Thank you for your assistance.

Sincerely,

Jeff T. Howard

Environmental Manager

Enclosures

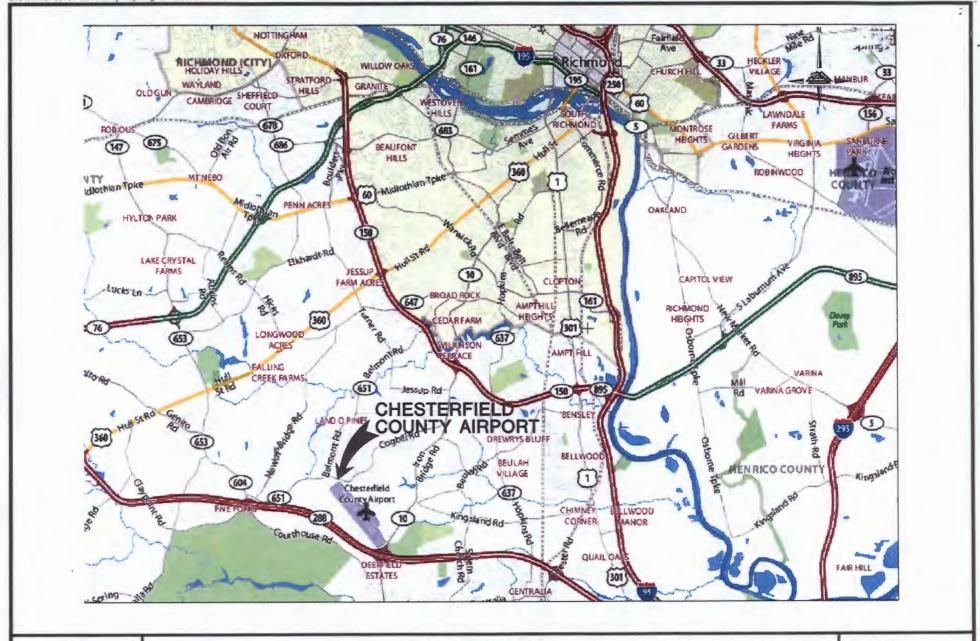
c: P Driscoll, Airport Administrator

J. Wilkinson, Facilities Supervisor

· VPDES General Permit for Industrial Activity Stormwater Discharges (VAR05) Registration Statement

	(Please Type or Print All Information)
1a.	Facility Owner
	Name: Chesterfield County
	Mailing Address: 6751 Mimms Loop
	City: Chesterfield State: VA Zip: 23832 Phone: (804) 717-6531
	E-Mail Address (where available): Jeff T. Howard (HowardJT@chesterfield.gov)
1b.	. Operator Applying For Permit Coverage (if different than "1a")
	Name: N/A
	Mailing Address: N/A
	City: N/A State: N/A Zip: N/A Phone: N/A
	E-Mail Address (where available): N/A
2.	Facility Information
	Facility Name: Chesterfield County Airport
	Street Address: 7511 Airfield Drive
	City: North Chesterfield State: VA Zip: 23237 FAX Number: (804) 743-0771
	County Name: Chesterfield
	Contact Name: Pat Driscoll Phone: (804) 743-0771
	E-Mail Address (where available): DriscollP@chesterfield.gov
3.	Nature of business (provide a brief description): Municipal Airport Terminal providing service to
	small-to-medium-sized aircraft. Areas on the airport are also available for aircraft storage and maintenance.
4.	Names of the receiving waters for all industrial activity discharges: Reedy Creek and its adjacent tributaries
5.	Are any of the discharges through a municipal separate storm sewer system (MS4)? Yes 🗸 No 🗌
	If "yes", provide the name of the MS4 owner: Chesterfield County, Virginia
	Note: Permit Special Condition 13 requires the permittee to notify the MS4 owner in writing of the existence of the discharge within 30 days of coverage under this permit. The notification must include the following information: the name of the facility, a contact person and phone number, the location of the discharge, the nature of the discharge, and the facility's VPDES general permit registration number. DEQ must be copied with the notification.
6.	Permit Numbers for any existing VPDES permits assigned to the facility: VAR051129
7.	For a new facility, a facility previously covered by an expiring individual permit, or an existing facility not currently covered by a VPDES permit, has a SWPPP been prepared? Yes 🔽 No 🗌
8.	Identify up to four 4-digit Standard Industrial Classification (SIC) Codes or 2-letter Industrial Activity Codes that best represent the principal products or services rendered by the facility and major co-located activities.
	The 2-letter Industrial Activity Codes are: HZ - hazardous waste treatment, storage, or disposal facilities; LF - landfills/disposal facilities that receive or have received any industrial wastes; SE - steam electric power generating facilities; or, TW - treatment works treating domestic sewage.
	4-Digit SIC Codes or 2-letter Industrial Activity Codes: 4581 N/A N/A N/A N/A

	industrial activities at th	e facility, and from maje	or co-located indust	over the stormwater discharges from the trial activities that will be covered under associated with each identified sector.
1	In addition to attaching t	he list, answer the quest	ions below as they	apply to the facility's discharges:
	a. For landfills (Sector L),	indicate the type of landfi	II: N/A	
	b. For timber products ope	rations (Sector A), indicate	e which outfalls (if any	y) receive discharges from wet decking
	areas: N/A			
(c. For all facilities, indicate N/A	which outfalls (if any) rece	eive discharges from	coal storage piles:
	d. For asphalt paving and	roofing materials manufac	turers (Sector D), indi	icate which outfalls (if any) receive
	discharges from asphali	t paving and roofing emul	sions production area	BIS: N/A
	e. For cement manufacturi	ng facilities (Sector E), ind	licate which outfalls (i	f any) receive discharges from material
	storage piles: N/A			
	f. For (Sector N) scrap re	ecycling/waste recycling fa	acilities that receive of	only source-separated recyclable materials,
	indicate which outfalls (if a	ny) receive discharges fro	m this activity. Also li	ist the metals that are received (if any).
	N/A			
				and indicate which outfalls (if any) receive departures of non-propeller aircraft.
	N/A			
				es), the area of industrial activity at the at the facility (in acres), and the area
	(in acres) draining to ea	ch industrial activity ou	tfall at the facility.	556 total acres, 131 acres of Ind. Activity,
	54 ac.tot.imp.areas; Outfall#1	=14.9ac, #2=11.4ac, #3=6.3a	ac, #4=9.7ac, #6=7.6ac,	#7=3.8ac, #8=3.0ac, #9=4.6ac
11.	Attach the following map	os to the registration sta	tement:	
				other equivalent computer generated map, e surrounding locale; and
	 b. Site map. A map sho outfalls, and all water bod 			all industrial activity areas, all stormwater site.
				0, 2014, located in the Chesapeake Bay ee instructions) Yes ☐ No ☑
	If "yes", attach the requi	red documentation (see	instructions).	
	direction or supervision in evaluate the information si persons directly responsib	accordance with a system ubmitted. Based on my in the for gathering the inform and complete. I am	n designed to assure equiry of the person on nation, the information aware that there are	all attachments were prepared under my that qualified personnel properly gather and or persons who manage the system or those in submitted is to the best of my knowledge e significant penalties for submitting false violations."
	Print Name James J. L. S	Stegmaier	Title	e: County Administrator
	Signature: Mamme	w		Date: 5.8.W
14.	Would you like your perr	nit sent to you electronic	cally? Yes 🗸 No	
	If "Yes", please list the e	-	-	_
Fo	r Department of Environ	mental Quality Hee Only		
	cepted/Not Accepted by:	montal quality osc only		Date:
	espicaritor riccopied by.			
	sin	Stream Class	Section	Special Standards



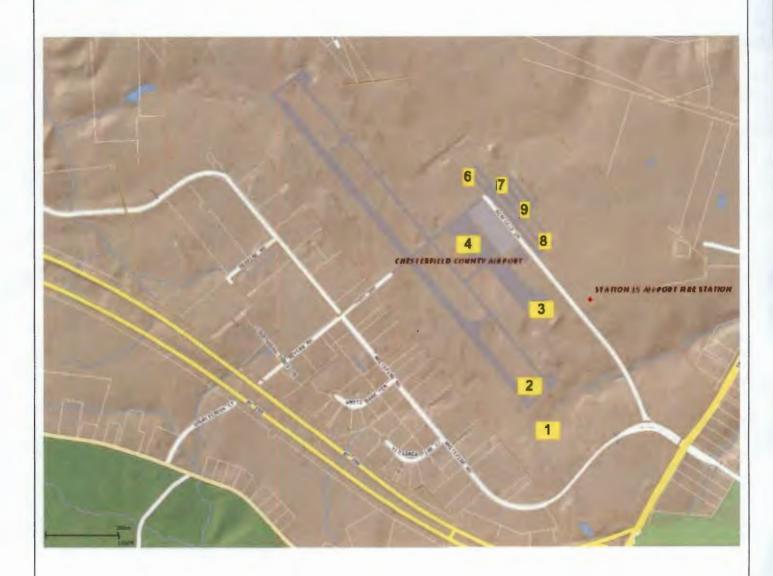


VICINITY MAP
CHESTERFIELD COUNTY AIRPORT

EXHIBIT 1-1

DRAWN BY: LKH CHECKED BY: KSK SCALE: NTS DATE: OCTOBER 2010

NOTE: Outfalls #4 and #5 have been combined and renamed Outfall #4



NOTE: Areas of Industrial Activity (i.e., the runways, parking, hangers, and terminals) are shown in gray.

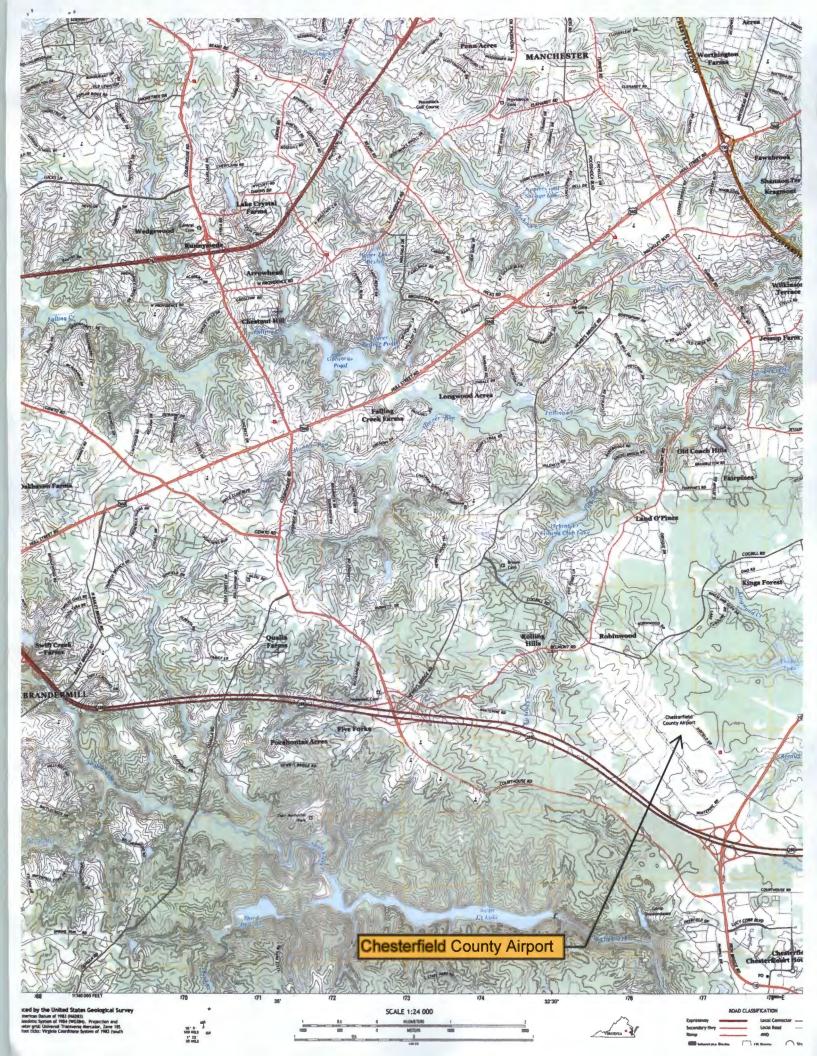


DATE: APRIL 1, 2014

SCALE: AS NOTED

FIGURE 2
SITE LOCATION MAP WITH OUTFALLS LOCATED
CHESTERFIELD COUNTY AIRPORT
CHESTERFIELD COUNTY, VIRGINIA

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) KB 05056-015



Molly Joseph Ward Secretary of Natural Resources PIEDMONT REGIONAL OFFICE 4949-A Cox Road, Glen Allen, Virginia 23060 (804) 527-5020 Fax (804) 527-5106 www.deq.virginia.gov

David K. Paylor Director

Michael P. Murphy Regional Director

March 6, 2014

Environmental Coordinator Chesterfield County PO Box 40 Chesterfield, VA 23832

RE: 2014 Reissuance of the VPDES Industrial Stormwater General Permit (VAR05) for Chesterfield County Airport - Permit Number VAR051129

Dear Permittee:

The existing VPDES Industrial Stormwater General Permit will expire on June 30, 2014. The State Water Control Board adopted the final amendments to the Industrial Stormwater General Permit Regulation at their December 17, 2013 meeting, and the new general permit will be effective on July 1, 2014. If you plan to continue to operate your facility and discharge stormwater beyond the expiration date of the current permit, you must reapply for authorization under the new permit.

Table 1 provides the information we currently have in our database for your facility. If this information is correct, (1) please put a check mark in the box and (2) make sure the information you provide on the Registration Statement matches the information in this table. If the information provided in the table is not correct: (1) do not check the box; (2) provide the correct information on the Registration Statement form; and (3) please include a brief explanation with change dates (e.g., facility name change or new owner on 2/1/2013). After you complete this table, please include a copy of this page with the Registration Statement.

Table 1. Facility Information from DEQ Records

(miles to the state of the stat			HILLS COLUMN TO THE STATE OF TH
X	la.	Facility Owner	Chesterfield County
X	lb.	Operator	Chesterfield County
X	2.	Facility Name	Chesterfield County Airport
X	8.	SIC Codes	4581

The forms to reapply for permit coverage (the 2014 Registration Statement form and the DEQ Water Permit Fee Form) are not included with this letter, but are available electronically online.

The 2014 Registration Statement form can be found online at: http://www.deq.virginia.gov/Portals/0/DEQ/Water/PollutionDischargeElimination/VAR05RegistrationStatement2014.pdf



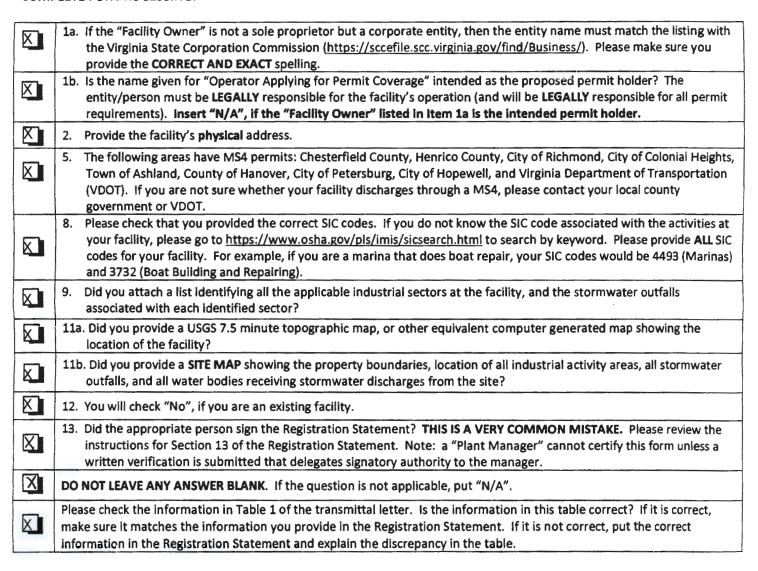


COMMON MISTAKES/DEFICIENCIES

THE TABLE BELOW LISTS THE MOST COMMON MISTAKES AND DEFICIENCIES FOUND ON THE REGISTRATION STATEMENT. IF THESE ITEMS ARE NOT COMPLETE AND CORRECT, YOUR REGISTRATION STATEMENT WILL BE SENT BACK TO YOU, PROCESSING COULD BE DELAYED, AND YOU MAY NOT BE ELIGIBLE FOR ADMINISTRATIVE CONTINUANCE.

***PLEASE PUT A CHECK IN THE BOX NEXT TO EACH ITEM AFTER YOU VERIFY IT. ***

PLEASE MAKE SURE YOU HAVE CHECKED ALL THE ITEMS IN THIS TABLE TO MAKE SURE YOUR REGISTRATION STATEMENT IS COMPLETE!!! THESE ITEMS MUST BE COMPLETE IN ORDER FOR YOUR REGISTRATION STATEMENT TO BE CONSIDERED COMPLETE FOR PROCESSING.



Appendix B

Worksheets

Worksheet 1 – Pollution Prevention Team Member Roster

Worksheet 2 – Material Inventory Exposed to Stormwater

Worksheet 3 – Implementation

Worksheet 4 – Non-Stormwater Discharge Assessment and Certification Worksheet 5 – Potential Pollutant Sources Exposed to Stormwater

POLLUTION PREVENTION TEAM MEMBER ROSTER Chesterfield County Airport		Worksheet #1		
Leader	Title:	Facility Maintenance Supervisor		
	Office Phone:	804 768-7722		
Responsibilities: Implementation of SWPPP. Coor Responsible for assigning tasks to supervisors. Coo Incorporates changes into SWPPP as necessary.				
incorporates enanges into 5 W111 as necessary.				
Member	Title:	Airport Manager		
,	Title: Office Phone:	Airport Manager 804 768-7700		
	Office Phone: entation of SWPPP. Coordinate	804 768-7700 es with Team Leader.		
Member Responsibilities: Mgmt. responsibility for impleme	Office Phone: entation of SWPPP. Coordinate	804 768-7700 es with Team Leader.		

MATERIAL INVENTORY EXPOSED TO STORMWATER

Chesterfield County Airport

Worksheet #2

Instructions: List all materials used, stored, or produced onsite exposed to stormwater. Assess and evaulate these materials for the potential to contribute pollutants to stormwater runoff.

		Quantity (Units)			Quantity Spilled	Likelihood of Contact with	Past S	pill
Material	Purpose/Location	Used	Type	Stored	In Last 3 Years	Stormwater	Yes	No
Jet A Fuel	Fuel Farm	Varies	UST	12,000 gal.	None	Little		X
Jet A Fuel	Fuel Farm	Varies	UST	12,000 gal.	None	Little		X
AV Gas	Fuel Farm	Varies	UST	12,000 gal.	None	Little		X
Gasoline	Fuel Farm	Varies	AST	500 gal.	None	Little		X
Used Cooking Oil	Fuel Farm	Varies	AST	300 gal.	None	Little		X
Trash Dumpsters	Fuel Farm	Varies	Dumpsters	N/A	N/A	Little		N/A
Jet A Fuel	MARV	Varies	Truck	2200 gal.	None	Little		X
Jet A Fuel	MARV	Varies	Truck	5000 gal.	None	Little		X
AV Gas	MARV	Varies	Truck	1000 gal.	None	Little		X
Diesel Fuel	MARV	Varies	Truck	2000 gal.	None	Little		X
ULS Diesel Fuel	Generator - Electrical Vault	Varies	AST	50 gal.	None	Little		X
ULS Diesel Fuel	Generator - Terminal Bldg	Varies	AST	250 gal.	None	Little		X

MARV = Mobile Aviation Refueling Vehicle

IMPLEMENTATION

Chesterfield County Airport

Worksheet #3

Instructions: Develop a schedule for implementing each control measure. Provide a brief description of each control measure, the steps necessary to implement the control measure (i.e. construction or design), the schedule for completing those steps (list dates) and the person responsible for implementation.

Recommended	Description of Action(s)	Completion	Responsible	
Control Measures	Required for Implementation	Date	Personnel	Notes
BASELINE CONTROL MEASURES				
Good Housekeeping	Inspections	On-going	Airport Manager, Staff	
Preventive Maintenance	Inspections	On-going	Airport Manager, Staff	
Inspections	Quarterly Inspections	On-going	Airport Manager, Staff	
Spill Prevention	Training, Inspections	Annual	Airport Manager, Staff	
Mgmt. Of Runoff	Inspections	On-going	Airport Manager, Staff	
Aircraft/Vehicle Washing	Training	On-going	Airport Manager, Staff	
ADVANCED CONTROL MEASURES				
Fuel Testing	Proper storage and disposal procedures	On-going	Airport Manager, Exec Staff	
Monitoring	Implement Quarterly Monitoring	On-going	Airport Manager, Staff	
Spill Containment around the Fuel Farm	Implement Daily Visual Inspection	On-going	Airport Manager, Staff	
Tank Sump Reclaimers	Implement Daily Monitoring	On-going	Airport Manager, Staff	
Sump and Dump Procedure	Implement as necessary	On-going	Individual Pilot	
Sump and Dump Procedure	Implement as neceesary	On-going	murviquai Filot	
Retaining Pond	Inspections	On-going	Airport Manager, Staff	

NON-STORM WATER DISCHARGE ASSESSMENT AND CERTIFICATION Chesterfield County Airport			Worksheet #4			
Date	Outfall Observed	Method of Test	Describe Test Results	Comments	Initial	
	1	Visual				
	2	Visual				
	3	Visual				
4 Visual						
	5	Visual				
6 Visual 7 Visual						
		(CERTIFICATION:			
designed to assure th who manage the syst	at qualified personnel proper or those persons response that there are significant	perly gather and evalu- nsible for gathering th	were prepared under my direction and ate the information submitted. Based o e information, it is to the best of my kn ng false information, including the poss	n my inquiry of the person or p owledge and belief, true, accur	persons ate and	
A. Name and Title (type or print)			B. Telephone Number			
C. Signature			D. Date Signed			

^{*}Signature must be County Administrator or other Delegated Authority

POTENTIAL POLLUTANT SOUR Chesterfield County Airport	CES EXPOSED TO STORMWATER	Worksheet #5	
•	-	ing management practices that address those sources.	
Stormwater Pollution Sources Existing Management Practices		Description of New BMP Options	
Fuel Farm	SPCC Plan and Spill Kits; Visual Inspections;	Outfall No. 3 has been outfitted with organic mulch to reduce	
	Use/maintain oil-water separator;	trace petroleum residue.	
	Continuous monitoring during operations.		
Emergency Generators	SPCC Plan and Spill Kits; Visual Inspections;		
	Continuous monitoring during operations.		
Aircraft and Vehicle Washing at	Wash Pad (drains to the O/W separator, then to	the sanitary sewer when in use, otherwise drains to ditch)	
Wash Rack	Routine inspections and maintenance		
Mobile Aviation Refueling Vehicles	SPCC Plan, Visual Inspections, Spill Kit		
6	Continuous monitoring during operation		
	5 5 1		
Impervious Areas	Maintain vegetative buffers around site		

Appendix C

Spills & Leaks

LIST OF SIGNIFICANT SPILLS AND LEAKS

Chesterfield County Airport

Year	Noted Spills	Initials	Notes
2001	none	JTH	
2002	none	JTH	
2003	none	JTH	
2004	none	JTH	
2005	none	JTH	
2006	none	JTH	
2007	none	JTH	
2008	none	JTH	
2009	none	JTH	
2010	Spill of 30 to 80 gals of Jet-A Aviation Fuel from mobile truck. Spill was promptly cleaned up with no off-site releases.	JTH	Environmental Incident Report Form Attached (Rpt # 102712)
2011	none	JTH	
2012	none	JTH	
2013	none	JTH	
2014	none	JTH	



CHESTERFIELD COUNTY

ENVIRONMENTAL INCIDENT REPORT FORM

									REPORT #	l;		102712
INCIDENT LOCATION	h	100	Airport Ran	ıр					DEPT:	En	vironment	al Engineerin
PERSON COMPLETIN	G REPO	RT:		Jason	St. Clair				DATE O	F RE	PORT:	12/27/10
A. INCIDENT SUMMA	(RY:	Parish F	Date;	1	2/27/10	Time:	8:1	IS AM	Duration:		approx	8 hours
	₹.		Violation	П	Near	Miss	Γ.	Cor	mplaint	Γ	0	ther [
B. INCIDENT DESCR	IPTION:		a dan r	(4)	Maria No.	Carry 1	karije si	discussive and the second	Augusta e	10 0 0 10 0		
Fuel truck owned by domini downgradient of the spill to at the time of the spill and so	ensure that	fuel did no	t leave the ra	mp or i	mpact any o	ff site recep	tors. D	ominion av	iation compl	eted th		
For chemical releases and	spills, was	a reportab	le quantity (RQ) ex	ceeded?				Yes	П	No	₹
Was there a fire or an exp	losion?		Yes	П	No	₽ i	Eva	cuations?	Yes	П	No	₽.
Injuries/Medical Attention	? (If yes,	describe)		None								
Anticipated Health or Env	ironmenta	l Impacts?		None								
C. RESPONSE AND C	LEANUF	245001			4				KADAYI	5.5.4. 1954		
Immediate Remediation/C	ontainmen	t Measure		Fluid	s were conta	ined within	the gen	eral area w	ith pads and	absorb	ent materia	i
Recommended Cleanup:		Remove sp	illed fuel wit	h verm	iculite (Abs	orbents)						
is Contaminated Media H	azardous I	Waste? (If	yes, describe)		Yes						
Cleanup Contractor:	Clean Harl	ors / Domi	nion Aviatio	n Tre	ansporter:	Clean Har	bors		Manifes	1#:		arbors to forv Env. Div
Disposal Site (Amount):		5 Drums										
D. RECORD OF NOT	FICATIO	ONS ***	" "	1110	(***			4		¢ . A		dim i
		Tele	phone		Date	Tim	e	Per	son Contacte	ď	Ca	ntacted By
Senior Management		(804)	748-1399	1 1	12/27/10	9:20	4M		Rob Key		Je	ff Howard
County Environmental Man	nager	(804)	717-6531		12/27/10	9:15	AM		Jeff Howard		To	om Trudeau
Co. Hazmat Coordinator		(804)	796-7068		12/27/10	2:35	PM		Curt Nellis		To	om Trudeau
Risk Management		(804)	796-2128		12/27/10	1:55	PM	J	im Carpenter		Ja	son St. Clair
Va. Dept. Emer. Mgt.		(800)	468-8892									
National Response Center		(800)	424-8802									
DEQ		(804)	527-5020		12/27/10	12:45	PM	1	Steve Morris		Ja	son St. Clair
Co. Hazardous Waste Coo	rdinator	(804)	768-7271		12/27/10	10:30	AM	J	ason St. Clair		J.	eff Howard
Other: Clean Harbors			645-8265		12/27/10	9:30		1	odd Sheaffer			m Treadeau
Describe Follow Up Action taken to prevent similar in	n(s) Requi			Chec	k to see that ent operation	t preventive is. If it is no	mainter	nance progr at or applic	ram on fuel ve able, steps shirport's Envir	chicles ould b	is current e taken to u	pdate the
'ncident Cause Investigat	ed and De	termined?		+	Yes	R	No		Notes:		Mechanica	il valve failur
Was Human Error Involv					Yes	П	No	N N			Actions?	None
Person(s) responsible for	follow-up:			Domi	nion Aviatio			ue Date:	O&T (EMS	 -	Complete?	Yes
			d, Curt Nelli	s, Jim C	Carpenter, To	om Treadea	ı, Tony	Nunes	•	<u>-</u>		

Appendix D

Quarterly Outfall Monitoring Reports

Facility	/ Name:	Che	esterfield County	/ Airport		VPDES Permit	:#: V	/AR051129
Calenc	lar Year:	1	st Qtr:	2 nd Qtr:		3 rd Qtr:	4 th Qtr:	
Name	of Inspector Conduct	ing Visual Mon	itoring:					
Monite	oring Date/Time (24-ł	hr time):				*(Must	be during dayli	ght hours)
A. Qua	nlifying Storm Event r	net (i.e. storm	event that resul	ts in an actual o	lischarge ar	d at least 72 hours	s from the last n	neasurable
	event), daylight hour ny first 30 minutes of			charge, or with	in three hοι	irs of discharge wi	th explanation a	nttached as No
	mount of Rainfall:	alseriarge was	Inches		Dur	ation of Rainfall:		Hrs/Min
D	escribe the storm eve	ent (e.g. light ra	in, heavy rain, s	now/ice melt):				· ·
				·				
	there a qualifying st		_				Yes	No*
	, attach documentati	,	, ,	•				
Note:	For the table below in	nclude probabl	e sources/cause	es of stormwate	r pollution (observed.		
#	Monitoring			Ou	tfall Observ	rations		
п	Parameter	Outfall 1	Outfall 2	Outfall 3	Outfall 4	Outfall 5	Outfall 6	Outfall 7
1	Color							
2	Odor							
3	Clarity							
4	Floating Solids							
5	Settled Solids							
6	Suspended Solids							
7	Foam							
8	Oil Sheen							
9	Other Indicators							
Note:	Fill in each box with	a Y for "Yes",	or N for "No".	Describe speci	fic details b	elow; (2.7=Outfall	! #2 foam note)	
			<u>CE</u>	RTIFICAT	ION:			
	fy under penalty of law		-					
person	system designed to assu or persons directly resp	onsible for gath	ering the informa	tion, the informa	tion submitte	ed is, to the best of n	ny knowledge and	d belief, true
	curate, and complete. In Inment for knowing viol		here are significa	nt penalties for su	ubmitting fals	se information, inclu	ding the possibilit	y of fine and
	3 -							
	Signature*		Print Name		Tit	ile	Date	

^{*}Signature must be County Administrator or other Delegated Authority

SWPPP Quarterly Inspection Form

DATE/TIME: 9/19/2014 at 8:45 am INSPECTOR: Ross Ward, EEE Consulting, Inc.

Year 2014 Third Quarter

ESTIMATED RAINFALL/SNOWMELT (Inches):

0.1

	Ingression	Outfall Observations									
#	Inspection Parameter	Outfall 1	Outfall 2	Outfall 3	Outfall 4	Outfall 5	Outfall 6	Outfall 7	Outfall 8	Outfall 9	
1	Color	N	Υ	No Flow	Υ	Υ	N	N	No Flow	No Flow	
2	Odor	N	N	No Flow	N	N	N	N	No Flow	No Flow	
3	Clear	N	N	No Flow	N	N	N	N	No Flow	No Flow	
4	Floating Solids	N	N	No Flow	N	N	N	N	No Flow	No Flow	
5	Settled Solids	N	N	No Flow	N	N	N	N	No Flow	No Flow	
6	Suspended Solids	N	N	No Flow	N	N	N	N	No Flow	No Flow	
7	Foam	N	N	No Flow	N	N	N	N	No Flow	No Flow	
8	Oil Sheen	N	N	No Flow	N	N	N	N	No Flow	No Flow	
9	Other	N	N	No Flow	N	N	N	N	No Flow	No Flow	

Note: Fill in each box with a Y for "Yes", or N for "No". Describe specific details below; (2.7=Outfall #2 foam note)
2.1: Light Brown Color. 4.1: Light Brown Color. Note: Outfall #4 and #5 are sufficiently similar.

VISUAL INSPECTION OF AREAS

Area Checked and in Satisfactory Condition?

Yes 🍮 No 🛎 Fuel Farm

Yes 🏅 No 🎍 Vehicle/Aircraft Wash Rack and Valve System

Yes No Dumpster Area

Yes گف No ش MARV Parking Area

Yes & No & Maintenance Hangars (Interior and Exterior)

Yes & No Storm Water Ditches, Culverts, Channels, Pipes, etc. throughout Airport Facilities

If concerns or problems found, note area, steps taken to correct matter, and who has been notified.

Concrete culvert that drains to Outfall #6 should be cleared of dead vegetation, which is blocking flow.

HOUSEKEEPING

Yes 🐣 No 🍮 Outside areas are clean and organized

Yes 🌣 No 👛 Drips or leaks from equipment or pipes are contained

Yes No Adequate space in work areas to minimize spills

Yes A No Garbage removed regularly

Yes And No Walkways and passageways easily accessible and free of materials that could be spilled

Yes An O Posted checklist for cleanup procedure of spilled materials

If concerns or problems found, note area, steps taken to correct matter, and who has been notified.

SWPPP Quarterly Inspection Form

DATE/TIME: 12/16/2014 at 12:00 pm INSPECTOR: Michael Easter, EEE Consulting, Inc.

Year 2014 Fourth Quarter

ESTIMATED RAINFALL/SNOWMELT (Inches):

0.35

	Ingression	Outfall Observations									
#	Inspection Parameter	Outfall 1	Outfall 2	Outfall 3	Outfall 4	Outfall 5	Outfall 6	Outfall 7	Outfall 8	Outfall 9	
1	Color	Υ	Υ	N	Υ	N/A	Υ	Υ	N	Υ	
2	Odor	N	N	N	N	N/A	N	N	N	N	
3	Clear	Y	Υ	Υ	Y	N/A	Y	Υ	Υ	Υ	
4	Floating Solids	Υ	Y	N	N	N/A	Υ	Υ	N	Y	
5	Settled Solids	N	N	N	N	N/A	N	N	N	N	
6	Suspended Solids	Y	Υ	N	Y	N/A	Υ	Υ	N	Υ	
7	Foam	N	N	N	N	N/A	N	N	N	N	
8	Oil Sheen	N	N	N	N	N/A	N	N	N	N	
9	Other	N	N	N	N	N/A	N	N	N	N	

Note: Fill in each box with a Y for "Yes", or N for "No". Describe specific details below; (2.7=Outfall #2 foam note)

1.1, 2.1, 4.1, 6.1, 7.1, 9.1: Light Brown Color 1.4, 2.4, 6.4, 7.4, 9.4: Leaves, grass, trash floating

1.6, 2.6, 4.6, 6.6, 7.6, 9.6: There were suspended solids present in samples

VISUAL INSPECTION OF AREAS

Area Checked and in Satisfactory Condition?

Yes گ No ت Fuel Farm

Yes 🛎 No 🕹 Vehicle/Aircraft Wash Rack and Valve System

Yes ق No گف Dumpster Area

Yes گ No ش MARV Parking Area

Yes No imagin Maintenance Hangars (Interior and Exterior)

Yes & No Storm Water Ditches, Culverts, Channels, Pipes, etc. throughout Airport Facilities

If concerns or problems found, note area, steps taken to correct matter, and who has been notified.

Dumpster area is messy and should be cleaned up.

HOUSEKEEPING

Yes فلا No فلا Outside areas are clean and organized

Yes An Drips or leaks from equipment or pipes are contained

Yes فلا No فلا Adequate space in work areas to minimize spills

Yes A No Garbage removed regularly

Yes A No Walkways and passageways easily accessible and free of materials that could be spilled

Yes And No Posted checklist for cleanup procedure of spilled materials

If concerns or problems found, note area, steps taken to correct matter, and who has been notified.

Dumpster area is messy and should be cleaned up.

Facility Name:	Chesterfield Cou	nty Airport	VPDE	S Permit #:	VAF	R051129
Calendar Year: 2015	1st Qtr: X	2 nd Qtr:	3rd Qtr:		4th Qtr:	
Name of Inspector Conductin	g Visual Monitoring:	Michael Easter	r, EEE Consulting	Michae	l Eas	ter
Monitoring Date/Time (24-hr	time):	3/26/2015	7:30AM	*(Must be o	luring dayl	ight hours)
A. Qualifying Storm Event me storm event), daylight hours, to why first 30 minutes of di	and within 30 minutes of di scharge was impracticable?	ischarge, or within	three hours of dischar X	A THE RESIDENCE AND ADDRESS OF THE PARTY OF	nation att	STATE OF THE PARTY
Storm Event Date/Time	Started: 3/26/2015 7		ion of Storm Event:		3 hours	
Rainfall Total of Storm	Event: 0.05 inch	es Pre	vious Storm Event:	3/19/201	L5 (12 hou	rs - 0.45"
Duration Between Stor	m Event Sampled and the E	nd of Previous Stor	m Event:	5 days,	20 hours	
Nature of Discharge S	ampled (Rain runoff, Snow i	melt):	Rai	n Runoff		
Company of the Compan						
	m event resulting in runoff	during this quarte	?	X	Yes	No*
B. Was there a qualifying store *If NO, attach documentation				X	Yes	No*
B. Was there a qualifying sto	n (i.e. rainfall data) and sign	the Certification S	tatement below.	X X	Yes	No.

#	Monitoring			Ou	tfall Observati	ons		
•	Parameter	Outfall 1	Outfall 2	Outfall 3	Outfall 4	Outfall 5	Outfall 6	Outfall 7
1	Color	No	Yes	Yes	No	Yes	Yes	Yes
2	Odor	No	No	No	No	No	No	No
3	Clarity	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4	Floating Solids	Yes	Yes	Yes	No	Yes	Yes	No
5	Settled Solids	Yes	Yes	Yes	No	No	No	No
6	Suspended Solids	No	No	No	No	No	No	No
7	Foam	No	No	No	No	No	No	No
8	Oil Sheen	No	No	No	No	No	No	No
9	Other Indicators	No	No	No	No	No	No	No

Note: Fill in each box with "Yes" or "No" Describe specific details below (2.7 = Outfall #2 foam note)

2.1, 3.1, 5.1, 6.1, 7.1: Light Brown Color 1.3, 2.3, 3.3, 4.3, 5.3, 6.3, 7.3: Clarity is Clear

1.4, 2.4, 3.4, 5.4, 6.4: Floating Grass, Leaves, Trash 1.5, 2.5, 3.5: Settled Grass, Leaves

CERTIFICATION:

"I certify under penalty of law that the preceding 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 directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true and accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing vigilations."

Signature *Signature must be County Administrator or other Delegated Authority

Revision Dute 1/2015

ility Name:	Chesterfield County Airpor	t	VPD	DES Permit #: VAR051129		
endar Year: 2015	Qtr: 2 nd Q	tr: X	3 rd Qtr:		4 th Qtr:	
ne of Inspector Conducting Visual M	onitoring: Mich	ael Easter, EEE Con	sulting	Michae	l Easter	
nitoring Date/Time:	6/2	25/2015 7:30 PN	1	*(Must be a	luring daylight hours	
m event), daylight hours, and withir why first 30 minutes of discharge was		or within three not	X	Yes		
Storm Event Date/Time Storted:		Duration of Sto	rm Event		1 hours	
Storm Event Date/Time Started: Rainfall Total of Storm Event:	6/25/2015 7:15 PM 2.18 inches	Duration of Stor			4 hours (9 hours – 0.50")	
	6/25/2015 7:15 PM 2.18 inches	Previous Stor	m Event:		4 hours (9 hours – 0.50")	
Rainfall Total of Storm Event:	6/25/2015 7:15 PM 2.18 inches ampled and the End of Pres	Previous Stor	m Event:	6/20/2015	4 hours (9 hours – 0.50")	
Rainfall Total of Storm Event: Duration Between Storm Event Sa	6/25/2015 7:15 PM 2.18 inches ampled and the End of Prevain runoff, Snow melt):	Previous Stor vious Storm Event:	m Event:	6/20/2015 4 days, 14 Runoff	4 hours (9 hours – 0.50")	

	Monitoring			Ou	utfall Observation	ons		
#	Parameter	Outfall 1	Outfall 2	Outfall 3	Outfall 4	Outfall 5	Outfall 6	Outfall 7
1	Color	None	Brown	Light Brown	Light Brown	Brown	Light Brown	Light Brown
2	Odor	None	Earthy	None	Earthy	Earthy	None	Earthy
3	Clarity	Clear	Cloudy	Almost Clear	Clear	Cloudy	Almost Clear	Cloudy
4	Floating Solids	Grass	Grass	Grass,Leaves	Grass	Grass,Trash	Trash,Sticks	Trash,Leaves
5	Settled Solids	None	Grass	Grass,Leaves	None	Grass,Leaves	Trash,Sticks	Trash
6	Suspended Solids	None	Sediment	Grass	Grass	Sediment	Sediment	Sediment
7	Foam	None	None	None	None	None	None	None
8	Oil Sheen	None	None	None	None	None	None	None
9	Other Indicators	None	None	None	None	None	None	None

Note: Describe specific details below (2.7 = Outfall #2 foam note)

CERTIFICATION:

"I certify under penalty of law that the preceding 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 directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true and 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."

*Signature must be County Administrator or other Delegated Authority

Date

Revision Date 1/2015

Facility Name:	Chesterfield County Airp	ort	VPI	DES Permit	ii:	VAR051129
Calendar Year: 2015	Qtr: 2 nd	Qtr:	3rd Qtr:	X	4th Qtr	r:
Name of Inspector Conducting Visual M	onitoring: Mic	hael Easter, EEE Co	nsulting	Mics	hael E	aster
Monitoring Date/Time:		9/10/2015 4:45PN	1	*(Must	be during a	laylight hours)
A. Qualifying Storm Event met? (i.e. sto storm event), daylight hours, and within to why first 30 minutes of discharge w	30 minutes of discharge					
Storm Event Date/Time Started:	9/10/2015 4:15PM	Duration of Sto	rm Event:		2 Hours	
Rainfall Total of Storm Event:	0.27 Inches	.Previous Storr	n Event:	9/2/2015	5 (2.5 Hours	s – 1.21")
Duration Between Storm Event Sa	ampled and the End of Pr	evious Storm Event	:	7 Days	, 19 Hours	
Nature of Discharge Sampled (Ra	ain runoff, Snow melt):		Rai	n Runoff		
3. Was there a qualifying storm event r	esulting in runoff during	this quarter?		X	Yes	No*
If NO, attach documentation (i.e. rainf	all data) and sign the Cer	tification Statemen	t below.			
lote: For the table below include proba	able sources/causes of sto	ormwater pollution	observed.			

	Monitoring			Out	tfall Observati	ions		
#	Parameter	Outfall 1	Outfall 2	Outfall 3	Outfall 4	Outfall 5	Outfall 6	Outfall 7
1	Color	Light Brown	Brown	None	None	Light Brown	Brown	Light Brown
2	Odor	Earthy	None	Earthy	Earthy	None	None	None
3	Clarity	Clear	Cloudy	Almost Clear	Clear	Cloudy	Cloudy	Almost Clear
4	Floating Solids	Grass	Grass,Trash	None	None	Grass,Trash	Grass,Sticks	Grass,Trash
5	Settled Solids	Grass	Grass,Sticks	None	None	Grass,Sticks	Grass	Grass
6	Suspended Solids	None	Sediment	None	None	Sediment	Sediment	Sediment
7	Foam	None	None	None	None	None	None	None
8	Oil Sheen	None	None	None	None	None	None	None
9	Other Indicators	None	None	None	None	None	None	None

Note: Describe specific details below (2.7 = Outfall #2 foam note)

CERTIFICATION:

"I certify under penalty of law that the preceding 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 directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true and 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."

Signature*

SheryeD. Bailey

t Name Camunis

unistrator

10/26/15 Date

*Signature must be County Administrator or other Delegated Authority

Revision Date 1/2015

Facility	y Name:	Cheste	rfield County Airpor	rt	VPI	DES Permit	#; V	AR051129
Calend	dar Year: 2015	1 st Otr:	Suq C	ire.	3rd Qtr:		4th Qtr	X
Name	of Inspector Conducti	ng Visual Monitori	ng: Carro	oll Ellis, EEE Consul	ting	Cour	le Ella	皿
Monit	oring Date/Time:		12	2/17/2015 8:20 AI	М	*(Must	be during de	aylight hours
storm	alifying Storm Event re event), daylight hours by first 30 minutes of c	, and within 30 mir	nutes of discharge,					
S	Storm Event Date/Time	e Started: 12/1	7/2015 7:55 AM	Duration of Stor	m Event:		8 Hours	
	Rainfall Total of Storr	n Event:	0.70 Inches	Previous Storn	n Event:	12/14/20	15 (8 Hours	- 0.70")
	Duration Between Sto	rm Event Sampled	and the End of Pre	vious Storm Event		2 Days	, 16 Hours	
	Nature of Discharge	Sampled (Rain rund	off, Snow melt):		Rai	n Runoff		
	s those a munlificion et	orm event resulting	g in runoff during th	nis quarter?		X	Yes	No*
B. Was	s there a qualitying su	JIIII EVELLE LESULUIT	Sill fullott during ti					
), attach documentation				below.			
*If NO		on (i.e. rainfall data) and sign the Certi	fication Statement				
*If NO), attach documentatio	on (i.e. rainfall data) and sign the Certi	fication Statement	observed.			

	Monitoring	Marie Control		0	utfall Observatio	ns			
#	Parameter	Outfall 1	Outfall 2	Outfall 3	Outfall 4	Outfall 5	Outfall 6	Outfall 7	
1	Color	Light tan	Clear	Tan	Green	Light tan	Clear	Clear	
2	Odor	None	None	None	None	None	None	None	
3	Clarity	Somewhat cloudy	Somewhat clear	Cloudy	Somewhat clear	Clear	Clear	Clear	
4	Floating Solids	None	Twigs/ leaves	Leaves	Leaves	None	Leaves/ grass	None	
5	Settled Solids	Sediment	Sediment	Sediment	Sediment	None	None	None	
6	Suspended Solids	Sediment	None	Sediment	Sediment	None	Sediment	None	
7	Foam	None	None	None	None	None	None	None	
8	Oil Sheen	None	None	None	None	None	None	None	
9	Other Indicators	None	None	None	Algal bloom	None	None	None	

Note: Describe specific details below (2.7 = Outfall #2 foam note)

CERTIFICATION:

"I certify under penalty of law that the preceding 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 directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true and 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."

Signature*

Print Name

administrator

Date

cility Name:	Chesterfield County Airpo	ort	VPI	DES Permit #:	VA	R051129
lendar Year: 2016	Qtr: X	Qtr:	3rd Qtr:		4 th Qtr:	
me of Inspector Conducting Visual I	Monitoring: Zach	ary Kiracofe, EEE Co	nsulting	3	chang A Kin	uge
onitoring Date/Time:	3	/28/2016 8:30 AM		*(Must be	during day	light hours
- 111				701	il 1	
Qualifying Storm Event met? (i.e. storm event), daylight hours, and with	n 30 minutes of discharge,		rs of disch	arge with exp		tached as
orm event), daylight hours, and with why first 30 minutes of discharge v	n 30 minutes of discharge, vas impracticable?	or within three hou	x X			
orm event), daylight hours, and with	n 30 minutes of discharge,		x X	arge with exp		tached as
orm event), daylight hours, and with why first 30 minutes of discharge v	n 30 minutes of discharge, vas impracticable?	or within three hou	x Event:	Yes	planation at	No
orm event), daylight hours, and with why first 30 minutes of discharge v Storm Event Date/Time Started:	n 30 minutes of discharge, vas impracticable? 3/28/2016 6:30 AM 0.15 Inches	Duration of Storm	x Event:	Yes 3/15/2016	1 Hour	No
orm event), daylight hours, and with o why first 30 minutes of discharge of Storm Event Date/Time Started: Rainfall Total of Storm Event:	n 30 minutes of discharge, yas impracticable? 3/28/2016 6:30 AM 0.15 Inches Sampled and the End of Pres	Duration of Storm	x Event:	Yes 3/15/2016	1 Hour 6 (4Hours –	No
orm event), daylight hours, and with o why first 30 minutes of discharge of Storm Event Date/Time Started: Rainfall Total of Storm Event: Duration Between Storm Event	n 30 minutes of discharge, yas impracticable? 3/28/2016 6:30 AM 0.15 Inches Sampled and the End of President runoff, Snow melt):	Duration of Storm Previous Storm evious Storm Event:	x Event:	3/15/2016 13 Days,	1 Hour 6 (4Hours –	No

#	Monitoring Parameter	Outfall Observations									
		Outfall 1	Outfall 2	Outfall 3	Outfall 4	Outfall 5	Outfall 6	Outfall 7			
1	Color	Light tan	Clear	Clear	Light tan	Clear	Clear	Light green			
2	Odor	None	None	None	None	None	None	None			
3	Clarity	Cloudy	Clear	Somewhat clear	Somewhat clear	Clear	Somewhat cloudy	Somewhat clear			
4	Floating Solids	None	None	Leaves	Leaves, litter	None	Leaves, litter, pollen	Leaves, pollen			
5	Settled Solids	Sediment	Sediment	Sediment	Sediment	None	None	None			
6	Suspended Solids	Sediment	None	None	None	None	Sediment	None			
7	Foam	None	None	Yes	None	None	None	None			
8	Oil Sheen	None	None	None	None	None	None	None			
9	Other Indicators	None	None	None	None	None	None	Algal bloom			

Outfall #3: Small concentrated foam mass observed during inspection

CERTIFICATION:

"I certify under penalty of law that the preceding 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 directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true and 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."

*Signature must be County Administrator or other Delegated Authority

Revision Date 1/2015

cility Name:	Chesterfield County Airpo	unty Airport		DES Permit #:	VA	R051129		
alendar Year: 2016	1 st Qtr:	Qtr: X	3 rd Qtr:		4th Qtr:			
ame of Inspector Conducting Visua	Monitoring: Carr	Carroll H. Ellis, III, EEE Consulting 6/23/2016 9:15 AM			Carle Ella III			
onitoring Date/Time:					during dayl	ight hours		
Qualifying Storm Event met? (i.e.								
orm event), daylight hours, and wi o why first 30 minutes of discharge	hin 30 minutes of discharge was impracticable?	, or within three hou	x X	Yes Yes	anation att			
orm event), daylight hours, and wi	hin 30 minutes of discharge was impracticable?		x m Event:	Yes 1.		No		
orm event), daylight hours, and wi o why first 30 minutes of discharge Storm Event Date/Time Started	thin 30 minutes of discharge was impracticable? : 6/23/2016 7:20 AM 0.45 Inches	Duration of Stor	x m Event:	Yes 1.	5 Hours	No		
orm event), daylight hours, and wi o why first 30 minutes of discharge Storm Event Date/Time Started Rainfall Total of Storm Event:	thin 30 minutes of discharge was impracticable? : 6/23/2016 7:20 AM 0.45 Inches t Sampled and the End of Pro	Duration of Stor	x m Event:	Yes 1. 6/17/2016	5 Hours	No		
orm event), daylight hours, and wi o why first 30 minutes of discharge Storm Event Date/Time Started Rainfall Total of Storm Event: Duration Between Storm Even	thin 30 minutes of discharge was impracticable? : 6/23/2016 7:20 AM 0.45 Inches t Sampled and the End of Pro (Rain runoff, Snow melt):	Duration of Stor Previous Storm evious Storm Event:	x m Event:	Yes 1. 6/17/2016 6 Days, 6.	5 Hours	No		

#	Monitoring Parameter	Outfall Observations								
		Outfall 1	Outfall 2	Outfall 3	Outfall 4	Outfall 5	Outfall 6	Outfall 7		
1	Color	Brown	Tan	Clear	Brown	Clear	Brown	Clear		
2	Odor	None	None	None	None	None	None	None		
3	Clarity	Cloudy	Somewhat clear	Somewhat clear	Cloudy	Clear	Cloudy	Clear		
4	Floating Solids	Leaves	Leaves	None	Leaves	None	None	None		
5	Settled Solids	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment		
6	Suspended Solids	Sediment	None	None	Sediment	None	Sediment	None		
7	Foam	None	Yes	None	None	None	None	None		
8	Öil Sheen	None	None	None	None	None	None	None		
9	Other Indicators	None	None	None	None	None	None	None		

Note: Describe specific details below (2.7 = Outfall #2 foam note)

Outfall #3: Small concentrated foam mass observed during inspection

CERTIFICATION:

"I certify under penalty of law that the preceding 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 directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true and 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."

^{*}Signature must be County Administrator or other Delegated Authority

Calend	iar Year: 2016		st Qtr:	2 nd Qtr:	T ard	Qtr:	4th Qtr:	
						Qui:	4 · Qtr;	
lame	of Inspector Conducti	ng Visual Mor	nitoring:	Martha Smi	th /	ma	25	
Monit	oring Date/Time (24-h	r time):		9/19/1	6, 845-1040	*(Must	be during daylig	ht hours)
	alifying Storm Event m							
	event), daylight hours by first 30 minutes of c			charge, or within	three hours o	of discharge wi	th explanation at	tached as No
	mount of Rainfall:	1.64	Inches		Duratio	n of Rainfall:	15 hrs 30 min	Hrs/N
	escribe the storm ever		ain heavy rain s	now/ice melt):			701110	1113/111
	vercast day with driz			snow/ice meicj.				
	s there a qualifying sto			during this quart	er?		√ Yes	No*
	, attach documentation					ow.	103	140
lote:	For the table below in	clude probab	le sources/cause	es of stormwater	pollution obse	erved.		
	Monitoring			Out	fall Observation	ons		
#	Parameter	Outfall 1	Outfall 2	Outfall 3	Outfall 4	Outfall 5	Outfall 6	Outfall 7
1	Color	No flow	Tan	Grey	No flow	None	Tan	No flow
2	Odor	No flow	No	Petroleum Odor	No flow	No	No	No flow
3	Clarity	No flow	Slightly Cloudy	Opaque	No flow	Clear	Slightly Cloudy	No flow
4	Floating Solids	No flow	No	No	No flow	No	No	No flow
5	Settled Solids	No flow	No	No	No flow	No	No	No flow
6	Suspended Solids	No flow	Yes	Yes	No flow	No	Yes	No flow
7	Foam	No flow	No	No	No flow	No	No	No flow
8	Oil Sheen	No flow	No	No	No flow	No	No	No flow
9	Other Indicators	No flow	NA	NA	No flow	NA	NA	No flow
Vota:	Describe specific dete	ails halow: (2	7=Outfall #2 for	am note)		1		
	003 - Drain to outfall oper				g place prior to a	and at time of sar	npling.	
Outfall	007 - Standing water in o	utfall pipe; no ac	ctive flow observed	l.				
			CI	ERTIFICATI	ON:			
	tify under penalty of law	at a share a second						

imprisonment for knowing violations."

*Signature must be County Administrator or other Delegated Authority

Signature*

Appendix E

Quarterly Routine Facility Inspection Reports

Facility Name:	Chesterfield County Airport	:	VPDES Perm	nit #: VAR051129
Calendar Year:	1 st Qtr: 2 nd	Qtr:	3 rd Qtr:	4 th Qtr:
Name of Inspector Conducti	ng Facility Inspection:			
Monitoring Date/Time (24-h	or time):		*(Must be	during daylight hours)
	VISUAL INSPECTION	OF AREAS		
Area Checked and in Satisfacto	ory Condition?			
Yes \square No \square Fuel Fa	•			
Yes No Vehicle	e/Aircraft Wash Rack and Valve Systen	1		
	ter Area			
	Parking Area			
Yes \square No \square Mainter	nance Hangars			
Yes \square No \square Emerge	ency Generator Areas			
	Water Ditches, Culverts, Channels, Pipe	es, Outfalls etc. thro	oughout Facility	
	note area, steps taken to correct matter			ck for more space).
1	, 1		`	1 /
	HOUSEKEEPI	NG		
Yes 🗆 No 🗀 Are	outside areas clean and organized?			
	drips or leaks from equipment or pipes	contained?		
	here adequate space in work areas to mi			
	arbage removed regularly?			
	walkways and passageways easily acco	essible and free of 1	materials that cou	ald be spilled?
	hecklist posted for cleanup procedure o			1
	control measures being followed?	1		
	erodible materials (ie. sand/dirt) contai	ned and pavement	areas swept and o	clear of erodible materials?
	note area, steps taken to correct matter	_	_	
			_	
	(AEDWIE! (C	A TION:		
accordance with a system design Based on my inquiry of the per best of my knowledge and beli	that the preceding document and all attemed to assure that qualified personnel person or persons directly responsible for ef, true and accurate, and complete. I a sibility of fine and imprisonment for kn	achments were preporoperly gathered a gathering the informal m aware that there	nd evaluated the i	information submitted. mation submitted is, to the
Signature*	Print Name	Ti	tle	Date
*Signature must be County Ad	ministrator or other Delegated Authori	ty		

g....

SWPPP Quarterly Inspection Form

DATE/TIME: 9/19/2014 at 8:45 am INSPECTOR: Ross Ward, EEE Consulting, Inc.

Year 2014 Third Quarter

ESTIMATED RAINFALL/SNOWMELT (Inches):

0.1

	Ingression				Outfa	all Observa	ations			
#	Inspection Parameter	Outfall 1	Outfall 2	Outfall 3	Outfall 4	Outfall 5	Outfall 6	Outfall 7	Outfall 8	Outfall 9
1	Color	N	Υ	No Flow	Υ	Υ	N	N	No Flow	No Flow
2	Odor	N	N	No Flow	N	N	N	N	No Flow	No Flow
3	Clear	N	N	No Flow	N	N	N	N	No Flow	No Flow
4	Floating Solids	N	N	No Flow	N	N	N	N	No Flow	No Flow
5	Settled Solids	N	N	No Flow	N	N	N	N	No Flow	No Flow
6	Suspended Solids	N	N	No Flow	N	N	N	N	No Flow	No Flow
7	Foam	N	N	No Flow	N	N	N	N	No Flow	No Flow
8	Oil Sheen	N	N	No Flow	N	N	N	N	No Flow	No Flow
9	Other	N	N	No Flow	N	N	N	N	No Flow	No Flow

Note: Fill in each box with a Y for "Yes", or N for "No". Describe specific details below; (2.7=Outfall #2 foam note)
2.1: Light Brown Color. 4.1: Light Brown Color. Note: Outfall #4 and #5 are sufficiently similar.

VISUAL INSPECTION OF AREAS

Area Checked and in Satisfactory Condition?

Yes 🍮 No 🛎 Fuel Farm

Yes 🏅 No 🎍 Vehicle/Aircraft Wash Rack and Valve System

Yes No Dumpster Area

Yes گف No ش MARV Parking Area

Yes & No & Maintenance Hangars (Interior and Exterior)

Yes & No Storm Water Ditches, Culverts, Channels, Pipes, etc. throughout Airport Facilities

If concerns or problems found, note area, steps taken to correct matter, and who has been notified.

Concrete culvert that drains to Outfall #6 should be cleared of dead vegetation, which is blocking flow.

HOUSEKEEPING

Yes 🐣 No 🍮 Outside areas are clean and organized

Yes 🌣 No 👛 Drips or leaks from equipment or pipes are contained

Yes No Adequate space in work areas to minimize spills

Yes A No Garbage removed regularly

Yes And Walkways and passageways easily accessible and free of materials that could be spilled

Yes An O Posted checklist for cleanup procedure of spilled materials

If concerns or problems found, note area, steps taken to correct matter, and who has been notified.

SWPPP Quarterly Inspection Form

DATE/TIME: 12/16/2014 at 12:00 pm INSPECTOR: Michael Easter, EEE Consulting, Inc.

Year 2014 Fourth Quarter

ESTIMATED RAINFALL/SNOWMELT (Inches):

0.35

	Ingression				Outfa	ıll Observa	ations			
#	Inspection Parameter	Outfall 1	Outfall 2	Outfall 3	Outfall 4	Outfall 5	Outfall 6	Outfall 7	Outfall 8	Outfall 9
1	Color	Υ	Υ	N	Υ	N/A	Υ	Υ	N	Υ
2	Odor	N	N	N	N	N/A	N	N	N	N
3	Clear	Y	Υ	Υ	Y	N/A	Y	Υ	Υ	Y
4	Floating Solids	Υ	Y	N	N	N/A	Υ	Υ	N	Y
5	Settled Solids	N	N	N	N	N/A	N	N	N	N
6	Suspended Solids	Υ	Υ	N	Y	N/A	Υ	Υ	N	Υ
7	Foam	N	N	N	N	N/A	N	N	N	N
8	Oil Sheen	N	N	N	N	N/A	N	N	N	N
9	Other	N	N	N	N	N/A	N	N	N	N

Note: Fill in each box with a Y for "Yes", or N for "No". Describe specific details below; (2.7=Outfall #2 foam note)

1.1, 2.1, 4.1, 6.1, 7.1, 9.1: Light Brown Color 1.4, 2.4, 6.4, 7.4, 9.4: Leaves, grass, trash floating

1.6, 2.6, 4.6, 6.6, 7.6, 9.6: There were suspended solids present in samples

VISUAL INSPECTION OF AREAS

Area Checked and in Satisfactory Condition?

Yes گ No ت Fuel Farm

Yes 🛎 No 🕹 Vehicle/Aircraft Wash Rack and Valve System

Yes ق No گف Dumpster Area

Yes گ No ش MARV Parking Area

Yes 🐣 No 👛 Maintenance Hangars (Interior and Exterior)

Yes & No Storm Water Ditches, Culverts, Channels, Pipes, etc. throughout Airport Facilities

If concerns or problems found, note area, steps taken to correct matter, and who has been notified.

Dumpster area is messy and should be cleaned up.

HOUSEKEEPING

Yes فلا No فلا Outside areas are clean and organized

Yes An Drips or leaks from equipment or pipes are contained

Yes فلا No فلا Adequate space in work areas to minimize spills

Yes A No Garbage removed regularly

Yes A No Walkways and passageways easily accessible and free of materials that could be spilled

Yes And No Posted checklist for cleanup procedure of spilled materials

If concerns or problems found, note area, steps taken to correct matter, and who has been notified.

Dumpster area is messy and should be cleaned up.

Facil	ity Name:	nghi vili kad		nesternera .	County Airport		VPL	ES Permit #	ł.	VAR051129
Calendar Ye	ear: 201	L5	1st Qtr	r: X	2 nd Qtr:		3 rd Qtr			4th Qtr:
Inspection I	Date/Time	(24-hr tin	ne): *(Musi	t be during o	daylight hours)		3/2	6/2015 7:	30AM	
Name of In:	spector Co	nducting I	Facility Insp	oection:	Michael Easte	r, EEE Cons	sulting	Mich	ael	Easter
	Weath	er Informa	tion at tim	e of inspect	ion:	Overcas	t, Raining, S	55°F, Slight \	Wind	
Des	cribe any	discharges	occurring	at time of in	nspection:		ater dischar	-		tfalls at
Are there a	ny previo		ntified disc f yes, descr		ollutants from the	No				
Are there	any contr	a alternative later and action in the	es that nee s, describe		nce or repairs? If	No				
Are there	any failed		easures the	at need repl	lacement? If yes,	No				
Are there	any incide	nts of non	ncomplianc	e observed?	If yes, describe.	No				
		equireme	nts? If yes,	describe.	ly with the permit	No			-	
INSPECTIO	N OF ALL	equiremei	nts? If yes, THE FACIL	describe. TY WHERE I	ly with the permit	ERIALS OR		RE EXPOSEE	о то s	TORMWATER
INSPECTIO	N OF ALL A	equiremei	nts? If yes, THE FACILI Condition?	describe. TY WHERE I	INDUSTRIAL MAT	ERIALS OR		RE EXPOSEI	O TO S	TORMWATER
inspection ea Checked s ✓ No	N OF ALL	equirement AREAS OF tisfactory (nts? If yes, THE FACILI Condition? rm	describe. TY WHERE I	INDUSTRIAL MAT	ERIALS OR		RE EXPOSEI	D 10 S	TORMWATER
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Comments. If concerns or problems found, note area, steps taken to correct matter, and who has been notified. Document all corrective actions. Any deficiencies in the implementation of the SWPPP shall be corrected as soon as practicable, but no later than
30 days of the inspection.
In Compliance with SWPPP? (YES or NO) YES
CERTIFICATION:
"I certify under penalty of law that the preceding 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 directly responsible for gathering the information, the information submitted is, to the
best of my knowledge and belief, true and 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."
Mal & Shengl D. Bailey Daputs Country 6/17/15
Signature Print Name Remunistrator Date
*Signature must be County Administrator or other Delegated Authority

E EY	Facility N	Name:		Chesterfield	County Airport		VPD	ES Permit	#:	VAR051129
Calend	lar Year:	2015	1st	t Qtr:	2 nd Qtr:	X	3rd Qtr:			4th Qtr:
nspec	tion Date	/Time (24-hr	time): *//	Must be during	daylight hours)		6/25	/2015 7	7:30 PM	
lame	of Inspec	ctor Conductin	g Facility	Inspection:	Michael Easter	, EEE Consu	lting	Mics	hael	Easter
	٧	Veather Inform	mation at	time of inspec	tion:	Thunders	torm, Rain	ing, 75°F		
	Describ	e any dischar	ges occurr	ring at time of	inspection:		ter dischar	_		itfalls at
Are th	ere any p		dentified o		oollutants from the	No				
Aret	here any		ures that yes, desci		ance or repairs? If	No				
Are t	here any	failed control	measure: describ		placement? If yes,	No				
Are t	here any	incidents of n	oncompli	iance observed	1? If yes, describe.	No				
Are an	ny additio			eeded to comp es, describe.	oly with the permit	No				
		requiren	nents? If y	yes, describe.	oly with the permit INDUSTRIAL MATE AND ALL OUTFALL	RIALS OR A	CTIVIES AF	RE EXPOSE	ED TO S	TORMWATER
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Comments. If concerns or problems found, no corrective actions. Any deficiencies in the imple		
In Compliance with SWPPP7 (YES or NO)	YES	

CERTIFICATION:

"I certify under penalty of law that the preceding 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 directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true and accurate, and complete. I am aware that there are significant penalties for submitting false information, including the pessibility of fine and imprisonment for knowing violations."

Signature

*Signature must be County Administrator or other Delegated Authority management Services

	Facility Na	ime:	Chesterfield	County Airport		VPDI	S Permit #	# :	VAR051129
Calenda	ar Year:	2015	1st Qtr:	2 nd Qtr:		3 rd Qtr:	X		4 th Qtr:
nspect	ion Date/	Time (24-hr tin	ne): *(Must be during	daylight hours)		9/10	/2015 4:	30PM	
lame o	of Inspecto	or Conducting	Facility Inspection:	Michael Easter	, EEE Consu	ulting	Mich	nel	Easter
	We	eather Informa	ation at time of inspect	ion:	Thunders	storm, Raini	ng, 75°F		
	Describe	any discharges	s occurring at time of i	nspection:		ter discharg ue to rain st			tfalls at
re the	ere any pre		ntified discharges of performance of performance of performance of performance of the per	ollutants from the	No				
Are th	nere any co		es that need maintena s, describe.	ince or repairs? If	No				
Are th	ere any fa		easures that need rep describe.	lacement? If yes,	No				
Are th	ere any in	cidents of non	ncompliance observed	? If yes, describe.	No				
	y additiona		sures needed to comp nts? If yes, describe.	ly with the permit	No				
re any		requiremen	nts? If yes, describe. THE FACILITY WHERE		RIALS OR A		E EXPOSEL	O TO \$1	FORMWATER
re any	TION OF A	requiremen	nts? If yes, describe. THE FACILITY WHERE I	INDUSTRIAL MATE	RIALS OR A		E EXPOSEL	D TO S1	FORMWATER
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Comments. If concerns or problems found, no corrective actions. Any deficiencies in the imple	mentation of the SW	PPP shall be corrected as soon as pr	
No Comments.	30 days of the i	rspection.	
No comments.			
		same same	
In Compliance with SWPPP? (YES or NO)	YES		
"I see it was done a coult with low that the accounting	CERTIFICA		, discotion on accommission to
"I certify under penalty of law that the preceding accordance with a system designed to assure the			
Based on my inquiry of the person or persons dir	ectly responsible for	gathering the information, the infor	rmation submitted is, to the
best of my knowledge and belief, true and accur-			penalties for submitting
false information, including the possibility of fine	and imprisonment i	or knowing violations.	May be
ma. 92 shen	(D. Bailey	Deputy Crenty	14910/12
Signature*	Print Name	administrator	'Date
*Signature must be County Administrator or other	er Delegated Authorit	for nemy Sewice	

-		Facility Nan	nes	Chesterfield	County Airport	VPDES Permit #: VAR051129
Ca	lend	ar Year.	2015	1 Otro	2 nd Qtr:	3 rd Qtr: X
În	spect	ion Date/Ti	me (24-hr time): *(/	Must be during	däylight hours)	12/17/2015 8:20 AM
Na	ame c	of Inspector	Conducting Facility	Inspection:	Carroll Ellis, EE	E Consulting Course Ella III
		Wea	ther Information at	t time of inspect	ion:	Raining, overcast 75°F
		Describe a	ny discharges occur	ring at time of i	nspection:	Stormwater discharges from outfalls at facility due to rain storm event
A	re the	ere any pre	riously unidentified site? If yes, o		ollutants from the	No
	Are ti	nere any co	ntrol measures that yes, desc		ince or repairs? If	No
	Are th	nere any fai	led control measure descrit		lacement? If yes,	No
	Are th	nere any inc	idents of noncompl	liance observed	? IF yes, describe.	No
A	re an	y additiona	control measures r	CALL STREET, SANSON ASSESSMENT	ly with the permit.	No
No.						
1/1	ISPEC	TION OF A	LL AREAS OF THE FA	101 7 1/2 100	INDUSTRIAL MATE AND ALL OUTFALL L	RIALS OR ACTIVIES ARE EXPOSED TO STORMWATER
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AICO		cked and in	Satisfactory Conditi	1		
	,		Satisfactory Condition	1		
Yes	1	No	Fuel Farm	ion?	to National Association Conference	
Yes	1	No No	Fuel Farm Vehicle/Aircra	ion? aft Wash Rack a	nd Valve System	
Yes Yes	1 1	No No No	Fuel Farm Vehicle/Aircra Dumpster Are	ion? aft Wash Rack a	to National Association Conference	
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Comments, if concerns or problems for corrective actions. Any deficiencies in the		PP shall be corrected as soon as pr	
No Comments.			
	YES		
	CERTIFICAT	TON:	
"I certify under penalty of law that the pr accordance with a system designed to as:	_		
Based on my inquiry of the person or per	sons directly responsible for g	gathering the information, the info	rmation submitted is, to the
best of my knowledge and belief, true an false information, including the possibility			penalties for submitting
Mad to	Cherry D. Bailey	- Derive County	1/4/16
Signature*	Roint Name	administrator	Date
*Signature must be County Administrator	r or other Delegated Authority	1	

	Facility I	Name:		Ch	nesterfield (County Airport		VF	DES Permit	#: VA	R051129
Calend	lar Year:	2016]	1st Qtr	: X	2 nd Qtr:		3rd Qt	er:	4 th O	tr:
nspec	tion Date	e/Time (24	4-hr time	e): *(Must	be during d	aylight hours)		3/	28/2016 8:	30 AM	
Name	of Inspec	ctor Cond	ucting Fa	acility Insp	ection:	Zachary Kiraco	fe, EEE C	Consulting	Bochan	y A King	í
	V	Weather II	nformati	on at time	of inspecti	on:	Clear,	slight overc	ast 59°F		
	Describ	pe any disc	charges	occurring a	at time of in	spection:		water disch storm ever	arges from o	outfalls at fa	cility due
Are th	ere any p	previously		tified disch yes, descri	-	llutants from the	No				4
Are t	here any	/ control n		s that need, describe.		nce or repairs? If	No				
Are t	here any	failed cor		asures tha escribe.	t need repl	acement? If yes,	No				
Are t	here any	/ incidents	of nonc	compliance	e observed?	If yes, describe.	No			10.00	
Are ar	ny additio			ures neede ts? If yes, o		y with the permit	No				
		requ	uirement	ts? If yes,	describe.	y with the permit NDUSTRIAL MATE ND ALL OUTFALL L	RIALS O		ARE EXPOSE	ED TO STORI	MWATER
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1 - C		of the ir	ispection.			
No Comments.						
In Compliance with SWPPP? (YES or NO)	YES					
	CEF	RTIFICA	TION:			
	g document a	and all at	tachments v		valuated the	information submitted.
"I certify under penalty of law that the preceding accordance with a system designed to assure the Based on my inquiry of the person or persons dispest of my knowledge and belief, true and accur false information, including the possibility of fine	rectly respon rate, and com	sible for plete. I	gathering tham aware th	e informationat there are		

	Facility N	lame:		Chesterfield C	County Airport		VPDE	S Permit #:	VAR051129
Calend	lar Year:	2016	15	Qtr	2 ^{rid} Qtr:	X	3rd Qtr:		4th Qtr:
nspect	tion Date	/Time (24-hr	time): *(A	Aust be during d	aylight hours)		6/21/	2016 3:00	PM
Name (of Inspec	tor Conductin	ng Facility	Inspection:	Carroll H. Ellis,	III, EEE Cons	ulting	Carle	Elle III
	W	Veather Inform	mation at	time of inspection	on:	Clear, sligh	nt overcast	88°F	
	Describe	e any dischar	ges occur	ing at time of in	spection:			water discha due to a rair	rges from n storm event.
Are the	ere any p		dentified ? If yes, d		llutants from the	No			
Are t	here any		sures that yes, descr		nce or repairs? If	No			
Are th	here any	failed control	l measure describ	s that need replace.	acement? If yes,	No			
Are th	here any	incidents of n	noncompl	ance observed?	If yes, describe.	No			
Are an	y additio			eeded to completes, describe.	y with the permit	No			
F		requiren	ments? If y	ves, describe.	with the permit NDUSTRIAL MATE ND ALL OUTFALL	ERIALS OR AC	CTIVIES ARE	EXPOSED T	O STORMWATER
INSPEC	CTION OF	requiren	nents? If y	cility WHERE II	NDUSTRIAL MATE	ERIALS OR AC	CTIVIES ARE	EXPOSED T	O STORMWATER
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Comments. If concerns or problems corrective actions. Any deficiencies in t			
No Comments.			
In Compliance with SWPPP? (YES or I	NO) YES		
"I certify under penalty of law that the paccordance with a system designed to a Based on my inquiry of the person or pebest of my knowledge and belief, true a false information, including the possibility."	ssure that qualified personne ersons directly responsible for nd accurate, and complete. I	ttachments were prepared under my d Il properly gathered and evaluated the gathering the information, the inform am aware that there are significant pe	information submitted. ation submitted is, to the
Signature*	Print Name	Title	Date

Facility N	Name:		Chesterfield Coun	ty Airport		VPDE	S Permit	#: V/	AR051129
Calenda	r Year:	2016	1 st Qtr:	2 nd Qtr:		3 rd Qtr:	1	4th Qtr:	
Name of	f Inspector (Conducting Fac	cility Inspection:	Martha Smith	1	11	e	0	
Monitor	ing Date/Ti	me (24-hr time	e):	9/19/20	016, 0900	*(N	lust be d	uring daylig	ht hours)
	3			ECTION OF AREA	45	7			
				ECTION OF AREA	43				
	_	Satisfactory Co	endition?						
Yes 🗸	No 🔲	Fuel Farm							
Yes 🗸	No 🗆		raft Wash Rack and Val	lve System					
Yes 🗸	No 🗆	Dumpster Are							
Yes 🗸	No 🗆	MARV Parki	_						
Yes 🗸	No 🗆	Maintenance							
Yes 🗸	No 📙		Generator Areas						,
Yes 🗸	No 🗆	Storm Water	Ditches, Culverts, Char	nnels, Pipes, Outfal	ls etc. th	roughout Fa	acility		
If concerns	s or problen	ns found, note	area, steps taken to corr	ect matter, and who	o has bee	en notified (use back	for more sp	ace).
			HOUS	EKEEPING					
Yes 🗸	No 🗆	Are outsi	de areas clean and organ	nized?		_			
Yes 🗸	No 🗆		or leaks from equipmen		ed?				
Yes 🔽	No 🗆	-	dequate space in work a						
Yes 🔽	No 🗆		e removed regularly?		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Yes 🗸	No 🗆	_	ways and passageways	easily accessible ar	nd free o	f materials t	hat could	be spilled?	,
Yes 🗆	No 🗆		ist posted for cleanup pr						
Yes 🔽	No 🗆		rol measures being follo						
Yes 🗸	No 🗆		ible materials (ie. sand/o		pavemer	nt areas swe	pt and cl	ear of erodi	ole materials?
			area, steps taken to con		-				
	_		spection, however inspector						race j.
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								A. A	
44			cEl the preceding document	RTIFICATION		sanced und	an mu di	rection or su	margician in
accordanc	e with a sys	ty of law that the	to assure that qualified	personnel properly	gathered	and evalua	ted the in	formation s	submitted.
Based on a	my inquiry	of the person o	or persons directly respon	onsible for gathering	g the infe	ormation, th	e inform	ation submi	tted is, to the
best of my	knowledge	e and belief, tru	ue and accurate, and cor	mplete. I am aware	iolations	re are signif	icant per	iaities for si	iomitting talse
informatio	m. including	g the possibilit	v of line and imprisonn	ICILL TOT KITO MILIS AT	ioianona.				
informatio	on, including	g the possibility	ty of fine and imprisonm	S KIIOWING VI) and	h		الحال	h

*Signature must be County Administrator or other Delegated Authority

Appendix F

Stormwater Training Documentation

Sign-in Sheet

TIMES:	Annual Storm Water Tra	ining - Airport	
PURPOSE:	To review storm water pla	_	
ATTENDEES:			
PRINT NAME	SIGNATURE	POSITION	DEPT.
Chris Workman	install well	Instructor	Enginee
Locky Hicks	1 Hofu	LINE Sof.	DAS UN
Chris Verknoler	The	Airport Tech	B+ 6/A:14
Lance Shelton	Lane Shelter	Priopoll maisterance	BEG
JEREMYN FLICTUSON	722	- MAZUT, SID	ALKORT
PATRICK DRISCOLL	Poincoll	AIFRORT ADMIN	Legent
JEFE T. HOUSE	Jest Johnson	ENV. MER.	GSEN

07/14/03.REV02.JTH ENVMGT.FORM.0002 PAGE 1 OF 1

STORM WATER JUNE 30 I JEREMY WILKINSON
ROCK! HENDERSON ALRFORT 6SEN Jason St. Clar. GSEN Lance Shelton Airport B&C Chris Verlander Airport | B+6 Brandon Leonard Arport Electrician Alan Collette Gser Calvin Vonada GSEN JEFF HOWARD GSEN PATRICK DRISCOIL AIRPORT

Appendix G

Annual Comprehensive Site Compliance Evaluation

<u>CHESTERFIELD COUNTY AIRPORT</u> <u>ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION</u> (VAR051129)

DATE:

SCOPE OF EVALUATION:

REVIEW SWPPP AND UPDATE, IF NEEDED, WITHIN 30 DAYS:

OBSERVATIONS TAKEN OF FACILITY INCLUDE:

- Locations of discharge of pollutants from the site
- Locations of previously unidentified sources of pollutants
- Locations of control measures that need to be maintained or repaired
- Locations of failed control measures that need replacement
- Locations where additional control measures are needed

REVIEW OF FACILITY OPERATIONS (TO INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING):

- Industrial materials, residue or trash that may have or could come into contact with stormwater
- Leaks or spills that have occurred within the past three years
- Off-site tracking of industrial or waste materials or sediment where vehicles enter or exit the site
- Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas
- Review of stormwater related training performed, inspections completed, maintenance performed, quarterly visual examinations, and effective operation of control measures, including BMPs

INSPECTION OF POLLUTANT SOURCES AND STORMWATER OUTFALLS (TO INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING):

- Evidence of, or the potential for, pollutants entering the drainage system
- Evidence of pollutants discharging to surface waters at the facility outfall, and the condition of and around the outfall

EVALUATION OF CONTROL MEASURES EFFECTIVENESS:

SUMMARY	OF	ANNUAL	OUTFALL	EVALUATION	FOR	UNAUTHORIZED
DISCHARGE	<u>:S:</u>					
IDENTIFY A	NY IN	CIDENTS OF	NONCOMP	LIANCE THAT W	ERE OE	BSERVED:
SUMMARY (<u>OF AN</u>	<u>INUAL EVAL</u>	<u>.UATION:</u>			
	חם מזכ					
<u>EVALUATO</u>	<u>KS SIC</u>	JNATUKES:				
Signature		Pr	int Name	Title		Date
Cianatura			int Name			Data
Signature		PI	ini iname	i itie	3	Date
<u>CERTIFICAT</u>	<u>ION:</u>					
		of law that the pro	eceding docume	nt and all attachments w	vere nrena	red under my direction or
"I certify under p supervision in ac	penalty o	ce with a system of	designed to assu	re that qualified personr	nel proper	red under my direction or ly gathered and evaluated
"I certify under properties of the information	penalty of ecordance submitte	ce with a system of the ced. Based on m	designed to assume y inquiry of the	re that qualified personre person or persons dire	nel proper ectly resp	ly gathered and evaluated onsible for gathering the
"I certify under purpose supervision in active information, the am aware that the	penalty of ecordance submitted informationere are	ee with a system of ed. Based on m tion submitted is, significant penal	lesigned to assuming inquiry of the to the best of m	re that qualified personre person or persons dire y knowledge and belief,	nel proper ectly resp true and	ly gathered and evaluated consible for gathering the accurate, and complete. I
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^{*}Signature must be County Administrator or other Delegated Authority



May 8, 2014

Jeff T. Howard
Environmental Manager
Chesterfield County
General Services - Environmental Division
6751 Mimms Loop
Chesterfield, Virginia 23832

Reference: Compliance Evaluation Report for 2013-2014 FY

Chesterfield Co. Airport's Storm Water Pollution Prevention Plan (the Plan)

P.O. No. **P320207**

Koontz-Bryant Project No.: 05056-015

Dear Mr. Howard:

On May 8, 2014, I was present at the Chesterfield County Airport to review procedures, premises, and Outfalls associated with the airport. Specifically, I reviewed the facility's Storm Water Pollution Prevention Plan with the Airport's Facilities Supervisor Jeremy Wilkinson. During this visit, we discussed the following topics:

- 1. Our scope of quarterly inspections included a visual review of eight pre-selected outfalls located within the airport grounds. (See attached photographs.) The review and observations were documented in a written report. Any incidental items related to implementation of the Plan that required attention of airport personnel were recorded in a running log in the guarterly reports.
- 2. Christopher A. Workman, P.E. or Rob Beers, RLD conducted the quarterly inspections.
- 3. The inspections were conducted on July 25, 2013, October 7, 2013, February 3, 2014, and April 15, 2014.
- 4. <u>During the course of our inspections, no incidents of noncompliance were identified and no non-storm water discharges were observed.</u>
- 5. The Plan <u>will be</u> updated and any revisions <u>will be</u> recorded in the Manual Change Log in the next couple of weeks.
- 6. The area around Outfall #3 was retrofitted with organic mulch on April 11, 2014 to reduce trace petroleum residue. To date, it has been very effective.

Having discussed the above with the Airport's Facilities Supervisor Jeremy Wilkinson, we have attached a signed copy of the Annual SWPPP Site Compliance Evaluation form and a filled-out copy of the Non-Stormwater Discharge Assessment and Certification form for your use.

In conclusion, the Facilities Supervisor and his staff have implemented the Plan to our satisfaction. If you have any questions about this letter or the attachments, please call me.

Sincerely,

Koontz-Bryant, P.C.

Christopher A. Workman, P.E.

Director of Investigative / Environmental Services

Attachments

ATTACHMENT I

Annual SWPPP Site Compliance Evaluation form and Non-Stormwater Discharge Assessment and Certification form

Annual SWPPP Site Compliance Evaluation

	Review and Update Worksheets included in SWPPP (see Appendix B)
Complete *	Review Airport changes or modifications in past twelve months that may impact storm water quality
	Inspection of Spill Response Equipment
	Consider if changes are needed to improve storm water pollution prevention in any aspect covered by the plan
	Revision of SWPPP within two weeks if changes are needed.
Complete 🛣	Ensure that all incidents of non-compliance are accurately noted above
Signature:(Hollamm Preparer Date: May B, Zo,
Signature:	Patrick Directl Certification* Date: May 8,20

^{*} Certification signature required following an annual Site Compliance Evaluation in which no incidents of non-compliance have been determined to exist. Certification indicates facility is in compliance with the facility SWPPP and related VPDES discharge permit. Certification by Airport Manager if authorized in writing by County Principal Executive Officer or Ranking Elected Official.

NON-STORM WATER DISCHARGE ASSESSMENT AND CERTIFICATION Chesterfield County Airport	ER DISCHARGE CERTIFICATION Virport			Worksheet	
6					
Date	Outfall Observed	Method of Test	Describe Test Results	Comments	Initial
May 8, 2014	-	Visual	Sample clean* and no non-storm water discharges noted.	Outfall remains stable.	lar
May 8, 2014	2	Visual	Sample clean* and no non-storm water discharges noted.	Outfall remains stable.	100
May 8, 2014	3	Visual	Sample clean* and no non-storm water discharges noted.	Outfall remains stable.	a
May 8, 2014	4	Visual	Sample clean* and no non-storm water discharges noted.	Outfall remains stable.	ar
May 8, 2014	9	Visual	Sample clean* and no non-storm water discharges noted.	Outfall remains stable.	Ca-
May 8, 2014	7	Visual	Sample clean* and no non-storm water discharges noted.	Outfall remains stable.	lan
May 8, 2014	œ	Visual	Sample clean* and no non-storm water discharges noted.	Outfall remains stable.	an
May 8, 2014	6	Visual	Sample clean* and no non-storm water discharges noted.	Outfall remains stable.	a
		*AI	*All samples exhibited seasonal algae growth.	vth.	
			Certification		
I certify under penalty	of law that this documen	t and all attachments v	certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system	upervision in accordance with	a system

designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons responsible for gathering the information, it 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.

A. Name and Title (type or print)
Chris topher A. Workman, P.E.-Director

804-740-9200

B. Telephone Number

" Worker

C. Signature

D. Date Signed May 8, 2619

ATTACHMENT II SITE PHOTOGRAPHS

<u>Site Photographs</u>
(All photographs taken May 8, 2014 unless otherwise noted)



Photograph 1 Outfall #1



Photograph 2 Outfall #1



Photograph 3 Outfall #2



Photograph 4 Outfall #2



Photograph 5 Outfall #3



Photograph 6 Outfall #3



Photograph 7 Outfall #4



Photograph 8 Outfall #4



Photograph 9 Outfall #6



Photograph 10 Outfall #6



Photograph 11 Outfall #7



Photograph 12 Outfall #7



Photograph 13 Outfall #8



Photograph 14 Outfall #8



Photograph 15 Outfall #9.



Photograph 16 Outfall #9.



Photograph 17 Overall View of the Airport with Outfall Numbers marked. This photograph, although recent, is undated.



January 19, 2015

Jeff T. Howard
Environmental Manager
Chesterfield County
General Services - Environmental Division
6751 Mimms Loop
Chesterfield, Virginia 23832

Subject:

2015 Compliance Evaluation Report

Chesterfield County - Airport Storrnwater Pollution Prevention Plan

Permit No. P320207 **EEE Project No. 15-170**

Dear Mr. Howard:

On December 17, 2015, Carroll H. Ellis, III was present at the Chesterfield County Airport to inspect the premises and outfalls associated with the airport. The facility's Stormwater Pollution Prevention Plan (SWPPP) has also been reviewed.

SUMMARY OF WORK:

- Our scope of quarterly inspections included a visual review of seven (7) pre-selected outfalls located within the airport grounds. The review and observations were documented in a written report. Any incidental items related to implementation of the SWPPP that required attention of airport personnel were recorded in a running log in thequarterly reports.
- Carroll H. Ellis, III and Michael Easter conducted the quarterly inspections.
- The inspections were conducted on Mlarch 26, 2015, June 25, 2015, September 10, 2015, and December 17, 2015.
- During the course of our inspections, no incidents of noncompliance were identified and no non-stormwater discharges were observed.

We have attached a signed copy of the Annual SW PPP Site Compliance Evaluation form and a completed copy of the Non-Stormwater Discharge Assessment and Certification form for your use. In conclusion, the Facilities Supervisor and his staff have implemented the SWVPPP to our satisfaction. If you have any questions about this letter or the attachments, please contact us.

Sincerely,

Jennifer L. Jones Environmental Scientist

Annual SWPPP Site Compliance Evaluation

Complete	9	Review and Update Worksheets included in SWPPP (see Appendix B)
Complete	5	Review Airport changes or modifications in past twelve months that may impact storm water quality
Complete	4	Inspection of Spill Response Equipment
Complete	4	Consider if changes are needed to improve storm water pollution prevention in any aspect covered by the plan
Complete	4	Revision of SWPPP within two weeks if changes are needed.
Complete	6	Ensure that all incidents of non-compliance are accurately noted above
Sig	natu	re: Cual 00 III Preparer Date: 12/12/15
Sig	natu	re: Date: 1/27/16

^{*} Certification signature required following an annual Site Compliance Evaluation in which no incidents of non-compliance have been determined to exist. Certification indicates facility is in compliance with the facility SWPPP and related VPDES discharge permit. Certification by Airport Manager if authorized in writing by County Principal Executive Officer or Ranking Elected Official.

Non-Stormwater Discharge Assessment and Certification – Chesterfield County Airport		Worksheet		
Outfall Observed	Method of Test	Describe Test Results	Comments	Initial
1	Visual	Sample was clean. No non- stormwater discharges noted.	Outfall remains stable	CHE3
2	Visual	Sample was clean. No non- stormwater discharges noted.	Outfall remains stable	CHE3
3	Visual	Sample was clean. No non- stormwater discharges noted.	Outfall remains stable	CHE3
4	Visual	Sample was clean. No non- stormwater discharges noted; however, algae growth was visisble.	Outfall remains stable	CHE3
5	Visual	Sample was clean. No non- stormwater discharges noted.	Outfall remains stable	CHE3
6	Visual	Sample was clean. No non- stormwater discharges noted.	Outfall remains stable	CHE3
7	Visual	Sample was clean. No non- stormwater discharges noted.	Outfall remains stable	CHES
	erfield County Airpor Outfall Observed 1 2 3 4	Perfield County Airport Outfall Observed Method of Test 1 Visual 2 Visual 3 Visual 4 Visual 5 Visual 5 Visual 6 Visual	Outfall Observed Method of Test Describe Test Results 1 Visual Sample was clean. No non- stormwater discharges noted. 2 Visual Sample was clean. No non- stormwater discharges noted. 3 Visual Sample was clean. No non- stormwater discharges noted. Sample was clean. No non- stormwater discharges noted. Sample was clean. No non- stormwater discharges noted; however, algae growth was visisble. Sample was clean. No non- stormwater discharges noted. Sample was clean. No non-	Outfall Observed Method of Test Describe Test Results Comments 1 Visual Sample was clean. No nonstormwater discharges noted. 2 Visual Sample was clean. No nonstormwater discharges noted. 3 Visual Sample was clean. No nonstormwater discharges noted. 4 Visual Sample was clean. No nonstormwater discharges noted. Sample was clean. No nonstormwater discharges noted. Sample was clean. No nonstormwater discharges noted; however, algae growth was visiable. Sample was clean. No nonstormwater discharges noted. Sample was clean. No nonstormwater discharges noted. Visual Sample was clean. No nonstormwater discharges noted. Visual Sample was clean. No nonstormwater discharges noted. Sample was clean. No nonstormwater discharges noted. Outfall remains stable Outfall remains stable

I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons responsible for gathering the information, it 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.

A. Name and Title (type or print)	B. Telephone Number
Lenrifer L Jones, Project manager	804-442-3330
C. Signature	D. Date Signed
Lufel -	12-18-2015

Appendix H
Completed Discharge Monitoring Reports, Laboratory Results, and Other Documentation

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)

DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS 7511 Airfield Dr

> Richmond VA 23237

7511 Airfield Dr **FACILITY**

LOCATION Richmond VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

VAR051129	001
PERMIT NUMBER	OUTFALL NO.

Check	MONITO				
One	YEAR	MONTH	DAY	TC	
V	2014	July	1		
	2015	January	1		
	2015	July	1		
	2016	January	1		
	2016	July	1		
	2017	January	1		
	2017	July	1		
	2018	January	1		
	2018	July	1		
	2019	January	1		

IG PERIOD					
)	YEAR	MONTH	DAY		
	2014	December	31		
	2015	June	30		
	2015	December	31		
	2016	June	30		
	2016	December	31		
	2017	June	30		
	2017	December	31		
	2018	June	30		
	2018	December	31		
	2019	June	30		

PARAMETER			CONCENT	RATION		NO.	SAMPLE TYPE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	1112
004 TSS	REPORTED	*****	*****	24.0	MG/L	0	GRAB
	BENCHMARK CONC	*****	******	100	MG/L		GRAB
257 PETROLEUM	REPORTED	*****	*****	<0.6	MG/L	0	GRAB
HYDROCARBONS, TOTAL R	BENCHMARK CONC	*****	******	15	MG/L		GRAB

STORM EVENT INFORMATION					
DATE	YR	МО	DAY		
	14	12	16		
DURATION	HRS	М	IIN		
	3	0			
RAINFALL TOTAL (IN.)	0.3	5			
PRECEDING	DAYS HR		HRS		
EVENT	6	:	22		

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			DATE		
					İ
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY	l

- 1. Complete this form in permanent ink or indelible pencil. The use of 'correction fluids/tape' is not allowed.
- 2. Enter a check mark or otherwise indicate the appropriate "Monitoring Period" when sampling occurred.
- 3. For those parameters where the "REQUIREMENT" spaces have a reporting requirement or limitation, provide data in the "REPORTED" spaces in accordance with your permit.
- 4. Enter maximum concentration and units in the "REPORTED" spaces in the appropriate column under the header of "Concentration".
- 5. For all parameters enter the number of samples which do not comply with the minimum or maximum permit requirement in the "REPORTED" space in the column marked "No. Ex." (Number of Exceedances). If none, enter "0". Do NOT include monthly average violations in this field.
- 6. You are required to sample (at a minimum) according to the Sample Frequencies and Sample Types specified in your permit. If you sample more often than the Sample Frequency specified in your permit then all data must be used when completing the DMR.
- 7. Enter the actual type of sample (Grab, 8HC, 24HC, etc) collected for each parameter in the "REPORTED" space in the column marked "Sample Type".
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 - a. Enter the date (Year/Month/Day) of the "measurable storm event"
 - b. Enter the duration (hours and minutes) of "measurable storm event"
 - c. Enter the rainfall total (inches) of the "measurable storm event"
 - d. Enter the number of days and hours from the preceding "measurable storm event"
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- 10. Send the completed form(s) with original signatures to your Department of Environmental Quality Regional Office by the 10th of month following the monitoring period.
- 11. You are required to retain a copy of the report for your records.

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)
DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS 7511 Airfield Dr

Richmond VA 23237

FACILITY 7511 Airfield Dr

LOCATION Richmond VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

VAR051129	002
PERMIT NUMBER	OUTFALL NO.

Check		М	ОПІТО	RING	F
One	YEAR	MONTH	DAY	TO	
V	2014	July	1		Г
	2015	January	1		Γ
	2015	July	1		Г
	2016	January	1		r
	2016	July	1		r
	2017	January	1		T
	2017	July	1		Г
	2018	January	1		-
	2018	July	1		
	2019	January	1		

	NG PERIOD					
O	YEAR	MONTH	DAY			
	2014	December	31			
	2015	June	30			
	2015	December	31			
	2016	June	30			
	2016	December	31			
	2017	June	30			
	2017	December	31			
	2018	June	30			
	2018	December	31			
	2019	June	30			
		·				

PARAMETER		CONCENTRATION				NO.	SAMPLE TYPE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	'''
004 TSS	REPORTED	*****	*****	46.5	MG/L	0	GRAB
	BENCHMARK CONC	*****	*****	100	MG/L		GRAB
257 PETROLEUM	REPORTED	*****	*****	<0.6	MG/L	0	GRAB
HYDROCARBONS, TOTAL R	BENCHMARK CONC	*****	*****	15	MG/L		GRAB

STORM EVENT INFORMATION				
DATE	YR	МО	DAY	
	14	12	16	
DURATION	HRS	HRS MIN		
	3	0		
RAINFALL TOTAL (IN.)	0.3	5		
PRECEDING	DAY	'S I	HRS	
EVENT	6	:	22	

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

PRINCIPAL EXECUTIVE OFFI	CER OR AUTHORIZED AGENT	[DATE		l
					l
					l
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY	l

- Complete this form in permanent ink or indelible pencil. The use of 'correction fluids/tape' is not allowed.
- 2. Enter a check mark or otherwise indicate the appropriate "Monitoring Period" when sampling occurred.
- 3. For those parameters where the "REQUIREMENT" spaces have a reporting requirement or limitation, provide data in the "REPORTED" spaces in accordance with your permit.
- 4. Enter maximum concentration and units in the "REPORTED" spaces in the appropriate column under the header of "Concentration".
- 5. For all parameters enter the number of samples which do not comply with the minimum or maximum permit requirement in the "REPORTED" space in the column marked "No. Ex." (Number of Exceedances). If none, enter "0". Do NOT include monthly average violations in this field.
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VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS 7511 Airfield Dr

Richmond VA 23237

FACILITY 7511 Airfield Dr

LOCATION Richmond VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

VAR051129	003
PERMIT NUMBER	OUTFALL NO.

Check		М	ONITO	
One	YEAR	YEAR MONTH		
\	2014	July	1	
	2015	January	1	
	2015	July	1	
	2016	January	1	
	2016	July	1	
	2017	January	1	
	2017	July	1	
	2018	January	1	
	2018	July	1	
	2019	January	1	

NG PERIOD						
О	YEAR	MONTH	DAY			
	2014	December	31			
	2015	June	30			
	2015	December	31			
	2016	June	30			
	2016	December	31			
	2017	June	30			
	2017	December	31			
	2018	June	30			
	2018	December	31			
	2019	June	30			

PARAMETER			CONCENTRATION			NO.	SAMPLE TYPE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	1112
004 TSS	REPORTED	*****	*****	9.6	MG/L	0	GRAB
	BENCHMARK CONC	*****	*****	100	MG/L		GRAB
257 PETROLEUM	REPORTED	*****	*****	<0.6	MG/L	0	GRAB
HYDROCARBONS, TOTAL F	BENCHMARK CONC	*****	*****	15	MG/L		GRAB

STORM EVENT INFORMATION				
DATE	YR	МО	DAY	
	14	12	16	
DURATION	HRS	MIN		
	3	0		
RAINFALL TOTAL (IN.)	0.3	5		
PRECEDING	DAYS HE		HRS	
EVENT	6	:	22	

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		DATE		
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

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VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS 7511 Airfield Dr

Richmond VA 23237

FACILITY 7511 Airfield Dr

LOCATION Richmond VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

VAR051129	004
PERMIT NUMBER	OUTFALL NO.

Check		М	ONITO
One	YEAR	MONTH	DAY
-	2014	July	1
	2015	January	1
	2015	July	1
	2016	January	1
	2016	016 July	
	2017	January	1
	2017	July	1
	2018	2018 January	
	2018	2018 July	
	2019	January	1

YEAR	MONTH	DAY
2014		D/ ()
2014	December	31
2015	June	30
2015	December	31
2016	June	30
2016	December	31
2017	June	30
2017	December	31
2018	June	30
2018	December	31
2019	June	30
	2015 2016 2016 2016 2017 2017 2018 2018	2015 June 2015 December 2016 June 2016 December 2017 June 2017 December 2018 June 2018 December

PARAMETER			CONCENT	RATION		NO.	SAMPLE TYPE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	1112
004 TSS	REPORTED	*****	*****	5.6	MG/L	0	GRAB
	BENCHMARK CONC	*****	*****	100	MG/L		GRAB
257 PETROLEUM	REPORTED	*****	*****	<0.6	MG/L	0	GRAB
HYDROCARBONS, TOTAL F	BENCHMARK CONC	*****	*****	15	MG/L		GRAB

STORM EVENT INFORMATION				
DATE	YR	МО	DAY	
	14	12	16	
DURATION	HRS	М	IIN	
	3	0		
RAINFALL TOTAL (IN.)	0.3	5		
PRECEDING	DAY	'S I	HRS	
EVENT	6	:	22	

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			DATE		
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY	

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VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS 7511 Airfield Dr

Richmond VA 23237

FACILITY 7511 Airfield Dr

LOCATION Richmond VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

VAR051129	006
PERMIT NUMBER	OUTFALL NO.

Check		М	ONITO
One	YEAR	MONTH	DAY
/	2014	July	1
	2015	January	1
	2015	July	1
	2016	January	1
	2016	July	1
	2017 January		1
	2017	17 July	
	2018	January	1
	2018	18 July	
	2019	January	1

	NG PERIOD						
O	YEAR	MONTH	DAY				
	2014	December	31				
	2015	June	30				
	2015	December	31				
	2016	June	30				
	2016	December	31				
	2017	June	30				
	2017	December	31				
	2018	June	30				
	2018	December	31				
	2019	June	30				

PARAMETER			CONCENT	RATION		NO.	SAMPLE TYPE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	1112
004 TSS	REPORTED	*****	*****	34.3	MG/L	0	GRAB
	BENCHMARK CONC	*****	*****	100	MG/L		GRAB
257 PETROLEUM	REPORTED	*****	******	<0.6	MG/L	0	GRAB
HYDROCARBONS, TOTAL F	BENCHMARK CONC	*****	*****	15	MG/L		GRAB

STORM EVENT INFORMATION				
DATE	YR	МО	DAY	
	14	12	16	
DURATION	HRS	М	IIN	
	3	0		
RAINFALL TOTAL (IN.)	0.3	5		
PRECEDING	DAY	DAYS H		
EVENT	6	:	22	

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			DATE		ı
					ı
					ı
			İ		ı
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY	ı

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VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) **DISCHARGE MONITORING REPORT (DMR)**

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS 7511 Airfield Dr

> Richmond VA 23237

7511 Airfield Dr **FACILITY**

LOCATION Richmond VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

VAR051129	007
PERMIT NUMBER	OUTFALL NO.

Check		М	ОПІТО	RING	ΡĒ
One	YEAR	MONTH	DAY	TO	Υ
V	2014	July	1		2
*	2015	January	1		2
	2015	July	1		2
	2016	January	1		2
	2016	July	1		2
	2017	January	1		2
	2017	July	1		_2
	2018	January	1		2
	2018	July	1		2
	2019	January	1		2

PERIO	D	
YEAR	MONTH	DAY
2014	December	31
2015	June	30
2015	December	31
2016	June	30
2016	December	31
2017	June	30
2017	December	31
2018	June	30
2018	December	31
2019	June	30
	YEAR 2014 2015 2015 2016 2016 2017 2017 2018 2018	2014 December 2015 June 2015 December 2016 June 2016 December 2017 June 2017 December 2018 June 2018 December

PARAMETER			CONCENT	RATION		NO. EX.	SAMPLE TYPE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EA.	1112
004 TSS	REPORTED	*****	*****	34.8	MG/L	0	GRAB
	BENCHMARK CONC	*****	*****	100	MG/L		GRAB
257 PETROLEUM	REPORTED	*****	******	<0.6	MG/L	0	GRAB
HYDROCARBONS, TOTAL I	BENCHMARK CONC	*****	******	15	MG/L		GRAB

STORM EVENT INFORMATION			
DATE	YR	МО	DAY
	14	12	16
DURATION	HRS	M	IIN
	3	0	
RAINFALL TOTAL (IN.)	0.3	5	
PRECEDING	DAY	'S I	HRS
EVENT	6	2	22

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

PRINCIPAL EXECUTIVE OFFIC	CER OR AUTHORIZED AGENT	С	DATE	
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

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VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS 7511 Airfield Dr

Richmond VA 23237

FACILITY 7511 Airfield Dr

LOCATION Richmond VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

VAR051129 008
PERMIT NUMBER OUTFALL NO.

Check		М	ОПІТО	RIN
One	YEAR	MONTH	DAY	T
V	2014	July	1	
	2015	January	1	
	2015	July	1	
	2016	January	1	
	2016	July	1	
	2017	January	1	
	2017	July	1	
	2018	January	1	
	2018	July	1	
	2019	January	1	

	PERIOI	D	
O	YEAR	MONTH	DAY
	2014	December	31
	2015	June	30
	2015	December	31
	2016	June	30
	2016	December	31
	2017	June	30
	2017	December	31
	2018	June	30
	2018	December	31
	2019	June	30

PARAMETER			CONCENT	RATION		NO.	SAMPLE TYPE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	1112
004 TSS	REPORTED	*****	*****	9.8	MG/L	0	GRAB
	BENCHMARK CONC	*****	*****	100	MG/L		GRAB
257 PETROLEUM	REPORTED	*****	******	<0.6	MG/L	0	GRAB
HYDROCARBONS, TOTAL F	BENCHMARK CONC	*****	*****	15	MG/L		GRAB

STORM EVENT INFORMATION			
DATE	YR	МО	DAY
	14	12	16
DURATION	HRS	М	IIN
	3	0	
RAINFALL TOTAL (IN.)	0.3	5	
PRECEDING	DAYS		HRS
EVENT	6		22

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

PRINCIPAL EXECUTIVE OFFI	CER OR AUTHORIZED AGENT		DATE		
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY	

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VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) **DISCHARGE MONITORING REPORT (DMR)**

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS 7511 Airfield Dr

> Richmond VA 23237

7511 Airfield Dr **FACILITY**

LOCATION Richmond VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

VAR051129	009
PERMIT NUMBER	OUTFALL NO.

Check		М	ONITO	RIN
One	YEAR	MONTH	DAY	TC
/	2014	July	1	
	2015	January	1	
	2015	July	1	
	2016	January	1	
	2016	July	1	
	2017	January	1	
	2017	July	1	
	2018	January	1	
	2018	July	1	
	2019	January	1	

G PERIOD						
)	YEAR	MONTH	DAY			
	2014	December	31			
	2015	June	30			
	2015	December	31			
	2016	June	30			
	2016	December	31			
	2017	June	30			
	2017	December	31			
	2018	June	30			
	2018	December	31			
	2019	June	30			

PARAMETER	₹		CONCENTRATION				SAMPLE TYPE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	1112
004 TSS	REPORTED	*****	*****	3.6	MG/L	0	GRAB
	BENCHMARK CONC	*****	*****	100	MG/L		GRAB
257 PETROLEUM	REPORTED	*****	*****	<0.6	MG/L	0	GRAB
HYDROCARBONS, TOTAL I	BENCHMARK CONC	*****	******	15	MG/L		GRAB

STORM EVENT INFORMATION				
DATE	YR	МО	DAY	
	14	12	16	
DURATION	HRS	MIN		
	3	0		
RAINFALL TOTAL (IN.)	0.3	5		
PRECEDING	DAY	'S I	HRS	
EVENT	6	:	22	

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

PRINCIPAL EXECUTIVE OFFI	PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

- 1. Complete this form in permanent ink or indelible pencil. The use of 'correction fluids/tape' is not allowed.
- 2. Enter a check mark or otherwise indicate the appropriate "Monitoring Period" when sampling occurred.
- 3. For those parameters where the "REQUIREMENT" spaces have a reporting requirement or limitation, provide data in the "REPORTED" spaces in accordance with your permit.
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- 5. For all parameters enter the number of samples which do not comply with the minimum or maximum permit requirement in the "REPORTED" space in the column marked "No. Ex." (Number of Exceedances). If none, enter "0". Do NOT include monthly average violations in this field.
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VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS 7511 Airfield Dr

Richmond VA 23237

FACILITY 7511 Airfield Dr

LOCATION Richmond VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

PERMIT NUMBER	OUTFALL NO.
VAR051129	001

Check	MONITO					
One	YEAR	MONTH	DAY			
V	2014	July	1			
	2015	January	1			
	2015	July	1			
	2016	January	1			
	2016	July	1			
	2017	January	1			
	2017	July	1			
	2018	January	1			
	2018	July	1			
	2019	January	1			

IG PERIOD						
YEAR	MONTH	DAY				
2014	December	31				
2015	June	30				
2015	December	31				
2016	June	30				
2016	December	31				
2017	June	30				
2017	December	31				
2018	June	30				
2018	December	31				
2019	June	30				
	YEAR 2014 2015 2015 2016 2016 2017 2017 2018 2018	YEAR MONTH 2014 December 2015 June 2015 December 2016 June 2016 December 2017 June 2017 December 2018 June 2018 December				

PARAMETER		CONCENTRATION				NO.	SAMPLE TYPE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	ITEC
929 ChesBay TMDL TSS	REPORTED	*****	*****	24.0	MG/L	0	GRAB
	REQUIREMENT	*****	*****	NL	MG/L		GRAB
930 ChesBay TMDL	REPORTED	*****	*****	<0.50	MG/L	0	GRAB
Nitrogen, Total (as N	REQUIREMENT	*****	*****	NL	MG/L		GRAB
931 ChesBay TMDL	REPORTED	*****	******	0.07	MG/L	0	GRAB
Phosphorus, Total (as	REQUIREMENT	*****	*****	NL	MG/L		GRAB

STORM EVENT INFORMATION					
DATE	YR	МО	DAY		
	14	12	16		
DURATION	HRS	М	IIN		
	3	0			
RAINFALL TOTAL (IN.)	0.3	5			
PRECEDING	DAY	'S I	HRS		
EVENT	6	:	22		

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

PRINCIPAL EXECUTIVE OFFI	PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				l
					l
					l
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY	l

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VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS 7511 Airfield Dr

Richmond VA 23237

FACILITY 7511 Airfield Dr

LOCATION Richmond VA 23237

CONTACT PERSON Patrick Driscoll

TELEPHONE 804-768-7700

VAR051129 002
PERMIT NUMBER OUTFALL NO.

Check		М	ONITO
One	YEAR	MONTH	DAY
/	2014	July	1
	2015	January	1
	2015	July	1
	2016	January	1
	2016	July	1
	2017	January	1
	2017	July	1
	2018	January	1
	2018	July	1
	2019	January	1

NG PERIOD					
O	YEAR	MONTH	DAY		
	2014	December	31		
	2015	June	30		
	2015	December	31		
	2016	June	30		
	2016	December	31		
	2017	June	30		
	2017	December	31		
	2018	June	30		
	2018	December	31		
	2019	June	30		

PARAMETER		CONCENTRATION				NO.	SAMPLE TYPE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	IIFL
929 ChesBay TMDL TSS	REPORTED	*****	*****	46.5	MG/L	0	GRAB
	REQUIREMENT	******	*****	NL	MG/L		GRAB
930 ChesBay TMDL	REPORTED	*****	******	0.73	MG/L	0	GRAB
Nitrogen, Total (as N	REQUIREMENT	*****	*****	NL	MG/L		GRAB
931 ChesBay TMDL	REPORTED	*****	******	0.05	MG/L	0	GRAB
Phosphorus, Total (as	REQUIREMENT	*****	*****	NL	MG/L		GRAB

STORM EVENT INFORMATION				
DATE	YR	МО	DAY	
	14	12	16	
DURATION	HRS	N	1IN	
	3	0		
RAINFALL TOTAL (IN.)	0.3	5		
PRECEDING	DAY	'S	HRS	
EVENT	6		22	

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

PRINCIPAL EXECUTIVE OFFI	PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		DATE	
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

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VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)
DISCHARGE MONITORING REPORT (DMR)

DEAD DEDAHT AND CENEDAL INCTRUCTIONS DEFODE COMPLETING THIS FORM

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS 7511 Airfield Dr

Richmond VA 23237

FACILITY 7511 Airfield Dr

LOCATION Richmond VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

VAR051129	003
PERMIT NUMBER	OUTFALL NO.

Check		М	ОПІТО	R
One	YEAR	MONTH	DAY	
/	2014	July	1	
-	2015	January	1	
	2015	July	1	
	2016	January	1	
	2016	July	1	
	2017	January	1	
	2017	July	1	
	2018	January	1	
	2018	July	1	
	2019	January	1	

	NG PERIOD				
O	YEAR	MONTH	DAY		
	2014	December	31		
	2015	June	30		
	2015	December	31		
	2016	June	30		
	2016	December	31		
	2017	June	30		
	2017	December	31		
	2018	June	30		
	2018	December	31		
	2019	June	30		

PARAMETER		CONCENTRATION					SAMPLE TYPE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	ITPE
929 ChesBay TMDL TSS	REPORTED	*****	*****	9.6	MG/L	0	GRAB
	REQUIREMENT	*****	*****	NL	MG/L		GRAB
930 ChesBay TMDL	REPORTED	*****	*****	<0.5	MG/L	0	GRAB
Nitrogen, Total (as N	REQUIREMENT	*****	*****	NL	MG/L		GRAB
931 ChesBay TMDL	REPORTED	*****	******	<0.02	MG/L	0	GRAB
Phosphorus, Total (as	REQUIREMENT	*****	******	NL	MG/L		GRAB

STORM EVENT INFORMATION					
DATE	YR	МО	DAY		
	14	12	16		
DURATION	HRS	М	IIN		
	3	0			
RAINFALL TOTAL (IN.)	0.3	5			
PRECEDING	DAY	'S I	HRS		
EVENT	6	:	22		

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

PRINCIPAL EXECUTIVE OFFI	CER OR AUTHORIZED AGENT	[DATE		l
					l
					l
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY	l

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VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)
DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS 7511 Airfield Dr

Richmond VA 23237

FACILITY 7511 Airfield Dr

LOCATION Richmond VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

VAR051129	004
PERMIT NUMBER	OUTFALL NO.

Check		М	ONITO	RIN
One	YEAR	MONTH	DAY	TC
-	2014	July	1	
	2015	January	1	
	2015	July	1	
	2016	January	1	
	2016	July	1	
	2017	January	1	
	2017	July	1	
	2018	January	1	
	2018	July	1	
	2019	January	1	

RING PERIOD					
TO	YEAR	MONTH	DAY		
	2014	December	31		
	2015	June	30		
	2015	December	31		
	2016	June	30		
	2016	December	31		
	2017	June	30		
	2017	December	31		
	2018	June	30		
	2018	December	31		
	2019	June	30		

PARAMETER			CONCENTRATION			NO.	SAMPLE TYPE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	ITPE
929 ChesBay TMDL TSS	REPORTED	*****	*****	5.6	MG/L	0	GRAB
	REQUIREMENT	*****	*****	NL	MG/L		GRAB
930 ChesBay TMDL	REPORTED	*****	******	<0.5	MG/L	0	GRAB
Nitrogen, Total (as N	REQUIREMENT	*****	*****	NL	MG/L		GRAB
931 ChesBay TMDL	REPORTED	*****	******	<0.02	MG/L	0	GRAB
Phosphorus, Total (as	REQUIREMENT	*****	*****	NL	MG/L		GRAB

STORM EVENT INFORMATION					
DATE	YR	МО	DAY		
	14	12	16		
DURATION	HRS	MIN			
	3 0				
RAINFALL TOTAL (IN.)	0.35	5			
PRECEDING	DAY	'S	HRS		
EVENT	6	1	22		

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			DATE	
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

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VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) **DISCHARGE MONITORING REPORT (DMR)**

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS 7511 Airfield Dr

> Richmond VA 23237

7511 Airfield Dr **FACILITY**

LOCATION Richmond 23237 VA

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

VAR051129	006
PERMIT NUMBER	OUTFALL NO.

Check		М	ONITO
One	YEAR	MONTH	DAY
/	2014	July	1
	2015	January	1
	2015	July	1
	2016	January	1
	2016	July	1
	2017	January	1
	2017	July	1
	2018	January	1
	2018	July	1
	2019	January	1

NG PERIOD						
О	YEAR	MONTH	DAY			
	2014	December	31			
	2015	June	30			
	2015	December	31			
	2016	June	30			
	2016	December	31			
	2017	June	30			
	2017	December	31			
	2018	June	30			
	2018	December	31			
	2019	June	30			
	2013	Julio				

PARAMETER		CONCENTRATION				NO.	SAMPLE TYPE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	IIFL
929 ChesBay TMDL TSS	REPORTED	*****	*****	34.3	MG/L	0	GRAB
	REQUIREMENT	******	******	NL	MG/L		GRAB
930 ChesBay TMDL	REPORTED	*****	*****	0.67	MG/L	0	GRAB
Nitrogen, Total (as N	REQUIREMENT	******	******	NL	MG/L		GRAB
931 ChesBay TMDL	REPORTED	*****	*****	0.09	MG/L	0	GRAB
Phosphorus, Total (as	REQUIREMENT	******	*****	NL	MG/L		GRAB

STORM EVENT INFORMATION					
DATE	YR	МО	DAY		
	14	12	16		
DURATION	HRS	MIN			
	3	0			
RAINFALL TOTAL (IN.)	0.3	5			
PRECEDING	DAYS		HRS		
EVENT	6		22		

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			DATE	
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

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VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)

DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS 7511 Airfield Dr

> Richmond VA 23237

7511 Airfield Dr **FACILITY**

LOCATION Richmond 23237 VA

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

VAR051129	007
PERMIT NUMBER	OUTFALL NO.

Check		М	ONITO	RIN
One	YEAR	MONTH	DAY	TC
-	2014	July	1	
	2015	January	1	
	2015	July	1	
	2016	January	1	
	2016	July	1	
	2017	January	1	
	2017	July	1	
	2018	January	1	
	2018	July	1	
	2019	January	1	

RING PERIOD					
YEAR	MONTH	DAY			
2014	December	31			
2015	June	30			
2015	December	31			
2016	June	30			
2016	December	31			
2017	June	30			
2017	December	31			
2018	June	30			
2018	December	31			
2019	June	30			
	YEAR 2014 2015 2015 2016 2016 2017 2017 2018 2018	YEAR MONTH 2014 December 2015 June 2015 December 2016 June 2016 December 2017 June 2017 December 2018 June 2018 December			

PARAMETER		CONCENTRATION				NO.	SAMPLE TYPE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	IIFL
929 ChesBay TMDL TSS	REPORTED	*****	*****	34.8	MG/L	0	GRAB
	REQUIREMENT	******	******	NL	MG/L		GRAB
930 ChesBay TMDL	REPORTED	*****	*****	<0.5	MG/L	0	GRAB
Nitrogen, Total (as N	REQUIREMENT	*****	*****	NL	MG/L		GRAB
931 ChesBay TMDL	REPORTED	*****	*****	<0.02	MG/L	0	GRAB
Phosphorus, Total (as	REQUIREMENT	******	*****	NL	MG/L		GRAB

STORM EVENT INFORMATION					
DATE	YR	МО	DAY		
	14	12	16		
DURATION	HRS	MIN			
	3 0				
RAINFALL TOTAL (IN.)	0.3	5			
PRECEDING	DAY	'S	HRS		
EVENT	6		22		

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

PRINCIPAL EXECUTIVE OFFI	CER OR AUTHORIZED AGENT	[DATE		l
					l
					l
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY	l

- 1. Complete this form in permanent ink or indelible pencil. The use of 'correction fluids/tape' is not allowed.
- 2. Enter a check mark or otherwise indicate the appropriate "Monitoring Period" when sampling occurred.
- 3. For those parameters where the "REQUIREMENT" spaces have a reporting requirement or limitation, provide data in the "REPORTED" spaces in accordance with your permit.
- 4. Enter maximum concentration and units in the "REPORTED" spaces in the appropriate column under the header of "Concentration".
- 5. For all parameters enter the number of samples which do not comply with the minimum or maximum permit requirement in the "REPORTED" space in the column marked "No. Ex." (Number of Exceedances). If none, enter "0". Do NOT include monthly average violations in this field.
- 6. You are required to sample (at a minimum) according to the Sample Frequencies and Sample Types specified in your permit. If you sample more often than the Sample Frequency specified in your permit then all data must be used when completing the DMR.
- 7. Enter the actual type of sample (Grab, 8HC, 24HC, etc) collected for each parameter in the "REPORTED" space in the column marked "Sample Type".
- 8. Storm Event Information (i.e., a "measurable storm event" is a storm event that results in an actual discharge from the site, providing the interval from the preceding measurable Storm event is at least 72 hours):
 - a. Enter the date (Year/Month/Day) of the "measurable storm event"
 - b. Enter the duration (hours and minutes) of "measurable storm event"
 - c. Enter the rainfall total (inches) of the "measurable storm event"
 - d. Enter the number of days and hours from the preceding "measurable storm event"
- 9. The principal executive officer then reviews the form and must sign in the space provided and provide a telephone number where he/she can be reached. Enter the date (Year/Month/Day) the DMR was signed. Every page of the DMR must have an original signature and date.
- 10. Send the completed form(s) with original signatures to your Department of Environmental Quality Regional Office by the 10th of month following the monitoring period.
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VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)
DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS 7511 Airfield Dr

Richmond VA 23237

FACILITY 7511 Airfield Dr

LOCATION Richmond VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

VAR051129	008
PERMIT NUMBER	OUTFALL NO.

Check				
Check		M	ONITO	RIN
One	YEAR	MONTH	DAY	TC
/	2014	July	1	
	2015	January	1	
	2015	July	1	
	2016	January	1	
	2016	July	1	
	2017	January	1	
	2017	July	1	
	2018	January	1	
	2018	July	1	
	2019	January	1	

RING	PERIO	D	
TO	YEAR	MONTH	DAY
	2014	December	31
	2015	June	30
	2015	December	31
	2016	June	30
	2016	December	31
	2017	June	30
	2017	December	31
	2018	June	30
	2018	December	31
	2019	June	30

PARAMETER		CONCENTRATION			NO.	SAMPLE TYPE	
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	IIFL
929 ChesBay TMDL TSS	REPORTED	*****	*****	9.8	MG/L	0	GRAB
	REQUIREMENT	*****	*****	NL	MG/L		GRAB
930 ChesBay TMDL	REPORTED	*****	******	1.32	MG/L	0	GRAB
Nitrogen, Total (as N	REQUIREMENT	*****	*****	NL	MG/L		GRAB
931 ChesBay TMDL	REPORTED	*****	******	<0.02	MG/L	0	GRAB
Phosphorus, Total (as	REQUIREMENT	*****	*****	NL	MG/L		GRAB

STORM EVENT INFORMATION					
DATE	YR	МО	DAY		
	14	12	16		
DURATION	HRS	S MIN			
	3	0			
RAINFALL TOTAL (IN.)	0.3	5			
PRECEDING	DAY	'S I	HRS		
EVENT	6	:	22		

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

PRINCIPAL EXECUTIVE OFFI	CER OR AUTHORIZED AGENT	[DATE		l
					l
					l
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY	l

- 1. Complete this form in permanent ink or indelible pencil. The use of 'correction fluids/tape' is not allowed.
- 2. Enter a check mark or otherwise indicate the appropriate "Monitoring Period" when sampling occurred.
- 3. For those parameters where the "REQUIREMENT" spaces have a reporting requirement or limitation, provide data in the "REPORTED" spaces in accordance with your permit.
- 4. Enter maximum concentration and units in the "REPORTED" spaces in the appropriate column under the header of "Concentration".
- 5. For all parameters enter the number of samples which do not comply with the minimum or maximum permit requirement in the "REPORTED" space in the column marked "No. Ex." (Number of Exceedances). If none, enter "0". Do NOT include monthly average violations in this field.
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- 11. You are required to retain a copy of the report for your records.

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) **DISCHARGE MONITORING REPORT (DMR)**

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS 7511 Airfield Dr

> Richmond VA 23237

7511 Airfield Dr **FACILITY**

LOCATION Richmond 23237 VA

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

VAR051129	009
PERMIT NUMBER	OUTFALL NO.

Check		М	ONITO
One	YEAR	MONTH	DAY
-	2014	July	1
	2015	January	1
	2015	July	1
	2016	January	1
	2016	July	1
	2017	January	1
	2017	July	1
	2018	January	1
	2018	July	1
	2019	January	1

)	YEAR	MONTH	DAY
	2014	December	31
	2015	June	30
	2015	December	31
	2016	June	30
	2016	December	31
	2017	June	30
	2017	December	31
	2018	June	30
	2018	December	31
	2019	June	30

PARAMETER		CONCENTRATION					SAMPLE TYPE
	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	ITFE	
929 ChesBay TMDL TSS	REPORTED	*****	******	3.6	MG/L	0	GRAB
	REQUIREMENT	******	*****	NL	MG/L		GRAB
930 ChesBay TMDL	REPORTED	*****	*****	0.75	MG/L	0	GRAB
Nitrogen, Total (as N	REQUIREMENT	*****	*****	NL	MG/L		GRAB
931 ChesBay TMDL	REPORTED	*****	******	<0.02	MG/L	0	GRAB
Phosphorus, Total (as	REQUIREMENT	******	*****	NL	MG/L		GRAB

STORM EVENT INFORMATION						
DATE	YR	МО	DAY			
	14	12	16			
DURATION	HRS	М	MIN			
	3	0				
RAINFALL TOTAL (IN.)	0.35					
PRECEDING EVENT	DAY	'S I	HRS			
	6	:	22			

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

	PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		DATE		
١					
١	TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

This report is required by your VPDES permit and by law. (See, e.g., the Code of Virginia of 1950 §62.1-44.5 and 9 VAC 25-31-50.) Failure to report or failure to report truthfully can result in civil penalties of \$32,500 per violation, per day and felony prosecutions which can carry a 15 year term.

DISCHARGE MONITORING REPORT (DMR) - GENERAL INSTRUCTIONS

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Certificate of Analysis

Final Report

Laboratory Order ID 14L0318

Client Name: EEE Consulting (Mechanicsville)

Date Received: Dec

December 16, 2014 16:00

8525 Bell Creek Road

Date Issued:

December 23, 2014 16:55

Mechanicsville, VA 23116

Project Number:

14-209

Submitted To:

Michael Easter

Purchase Order:

Client Site I.D.: Chesterfield Airport

Enclosed are the results of analyses for samples received by the laboratory on 12/16/2014 16:00. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Ted Soyars

Laboratory Manager

50 To 1915

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized representative of Air Water & Soil Laboratories, Inc.







Certificate of Analysis

Final Report

Laboratory Order ID 14L0318

Client Name: EEE Consulting (Mechanicsville)

Date Received:

December 16, 2014 16:00

8525 Bell Creek Road

Mechanicsville VA, 23116

December 23, 2014 16:55

Michael Easter

Project Number:

14-209

Client Site I.D.: Chesterfield Airport

Submitted To:

Purchase Order:

Date Issued:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CA-1	14L0318-01	Waste Water	12/16/2014 13:30	12/16/2014 16:00
CA-2	14L0318-02	Waste Water	12/16/2014 13:15	12/16/2014 16:00
CA-3	14L0318-03	Waste Water	12/16/2014 12:50	12/16/2014 16:00
CA-4	14L0318-04	Waste Water	12/16/2014 13:05	12/16/2014 16:00
CA-6	14L0318-05	Waste Water	12/16/2014 12:30	12/16/2014 16:00
CA-7	14L0318-06	Waste Water	12/16/2014 12:20	12/16/2014 16:00
CA-8	14L0318-07	Waste Water	12/16/2014 11:55	12/16/2014 16:00
CA-9	14L0318-08	Waste Water	12/16/2014 12:05	12/16/2014 16:00
Trip Blank	14L0318-09	Waste Water	11/17/2014 15:25	12/16/2014 16:00



Certificate of Analysis

Final Report

Laboratory Order ID 14L0318

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Date Received:

December 16, 2014 16:00

8525 Bell Creek Road

Chesterfield Airport

Date Issued:

December 23, 2014 16:55

Mechanicsville VA, 23116

Project Number:

14-209

Submitted To: Michael Easter

Purchase Order:

Analytical Results

Client Site I.D.:

Sample I.D. CA-1

Laboratory Sample ID: 14L0318-01

Date/Time Sampled:	12/16/2014 1	3:30			Reporting		Sample Prep	Analysis	
Parameter	Samp ID	Method	Result	Qual	Limit	D.F.	Date/Time	Date/Time	Analyst
Volatile Petroleum Hydrod	carbons by GC								
TPH-Volatiles (GRO)	01	SW8015C	<0.10 mg/L		0.10	1	12/18/14 12:43	12/18/14 12:43	CL
Semivolatile Petroleum Hy	drocarbons by	GC							
TPH-Semi-Volatiles (DRO)	01	SW8015C	<0.50 mg/L		0.50	1	12/19/14 09:47	12/19/14 17:07	JHV
Surr: Pentacosane	01	SW8015C	84.2 %		40-160		12/19/14 09:47	12/19/14 17:07	JHV
Wet Chemistry Analysis									
Nitrate+Nitrite as N	01	SM22 4500-NO3F-2011	<0.10 mg/L		0.10	1	12/22/14 12:39	12/22/14 12:39	LAO
Nitrogen, Total	01	Calc.	<0.50 mg/L		0.50	1	12/22/14 12:39	12/22/14 12:39	LBH
Phosphorus, Total	01	SM22 4500PE-2011	0.07 mg/L		0.02	1	12/19/14 16:10	12/19/14 16:10	TLA
TKN as N	01	EPA351.2 R2.0	<0.50 mg/L		0.50	1	12/19/14 16:02	12/19/14 16:02	LBH
TSS	01	SM22 2540D-2011	24.0 mg/L		1.0	1	12/19/14 15:22	12/19/14 15:22	TLA



Certificate of Analysis

Final Report

Laboratory Order ID 14L0318

Client Name: EEE Consulting (Mechanicsville)

Date Received:

December 16, 2014 16:00

8525 Bell Creek Road

Date Issued:

December 23, 2014 16:55

Mechanicsville VA, 23116

Chesterfield Airport

Project Number:

14-209

Submitted To: Michael Easter

Purchase Order:

Analytical Results

Client Site I.D.:

Sample I.D. CA-2 Laboratory Sample ID: 14L0318-02

oumpio i.b. o/ (2						•	•		
Date/Time Sampled:	12/16/2014 1	3:15			Reporting		Sample Prep	Analysis	
Parameter	Samp ID	Method	Result	Qual	Limit	D.F.	Date/Time	Date/Time	Analyst
Volatile Petroleum Hydroc	arbons by GC								
TPH-Volatiles (GRO)	02	SW8015C	<0.10 mg/L		0.10	1	12/18/14 13:07	12/18/14 13:07	CL
Semivolatile Petroleum Hy	drocarbons by	GC							
TPH-Semi-Volatiles (DRO)	02	SW8015C	<0.50 mg/L		0.50	1	12/19/14 09:47	12/19/14 17:34	JHV
Surr: Pentacosane	02	SW8015C	80.5 %		40-160		12/19/14 09:47	12/19/14 17:34	JHV
Wet Chemistry Analysis									
Nitrate+Nitrite as N	02	SM22 4500-NO3F-2011	0.15 mg/L		0.10	1	12/22/14 12:42	12/22/14 12:42	LAO
Nitrogen, Total	02	Calc.	0.73 mg/L		0.50	1	12/22/14 12:42	12/22/14 12:42	LBH
Phosphorus, Total	02	SM22 4500PE-2011	0.05 mg/L		0.02	1	12/19/14 16:10	12/19/14 16:10	TLA
TKN as N	02	EPA351.2 R2.0	0.58 mg/L		0.50	1	12/19/14 16:02	12/19/14 16:02	LBH
TSS	02	SM22 2540D-2011	46.5 mg/L		1.0	1	12/19/14 15:22	12/19/14 15:22	TLA



Certificate of Analysis

Final Report

Laboratory Order ID 14L0318

Client Name: EEE Consulting (Mechanicsville)

Date Received:

December 16, 2014 16:00

8525 Bell Creek Road

Date Issued:

December 23, 2014 16:55

Mechanicsville VA, 23116

Michael Easter

Project Number:

14-209

Submitted To: Client Site I.D.:

Sample I.D.

Chesterfield Airport

Purchase Order:

Analytical Results

CA-3

Laboratory Sample ID: 14L0318-03

• • • • • • • • • • • • • • • • • • •						-	=		
Date/Time Sampled:	12/16/2014 1	2:50			Reporting		Sample Prep	Analysis	
Parameter	Samp ID	Method	Result	Qual	Limit	D.F.	Date/Time	Date/Time	Analyst
Volatile Petroleum Hydrod	carbons by GC								
TPH-Volatiles (GRO)	03	SW8015C	<0.10 mg/L		0.10	1	12/18/14 13:30	12/18/14 13:30	CL
Semivolatile Petroleum Hy	ydrocarbons by	y GC							
TPH-Semi-Volatiles (DRO)	03	SW8015C	<0.50 mg/L		0.50	1	12/19/14 09:47	12/19/14 18:00	JHV
Surr: Pentacosane	03	SW8015C	62.1 %		40-160)	12/19/14 09:47	12/19/14 18:00	JHV
Wet Chemistry Analysis									
Nitrate+Nitrite as N	03	SM22 4500-NO3F-2011	0.19 mg/L		0.10	1	12/22/14 13:09	12/22/14 13:09	LAO
Nitrogen, Total	03	Calc.	<0.50 mg/L		0.50	1	12/22/14 13:09	12/22/14 13:09	LBH
Phosphorus, Total	03	SM22 4500PE-2011	<0.02 mg/L		0.02	1	12/19/14 16:10	12/19/14 16:10	TLA
TKN as N	03	EPA351.2 R2.0	<0.50 mg/L		0.50	1	12/19/14 16:02	12/19/14 16:02	LBH
TSS	03	SM22 2540D-2011	9.6 mg/L		1.0	1	12/19/14 15:22	12/19/14 15:22	TLA



Certificate of Analysis

Final Report

Laboratory Order ID 14L0318

Client Name: EEE Consulting (Mechanicsville) Date Received:

December 16, 2014 16:00

8525 Bell Creek Road

Date Issued:

December 23, 2014 16:55

14L0318-04

Mechanicsville VA, 23116

Project Number:

14-209

Submitted To: Michael Easter Client Site I.D.: Chesterfield Airport

Purchase Order:

Analytical Results CA-4

Sample I.D.

Laboratory Sample ID:

Date/Time Sampled:	12/16/2014 1	3:05			Reporting		Sample Prep	Analysis	
Parameter	Samp ID	Method	Result	Qual	Limit	D.F.	Date/Time	Date/Time	Analyst
Volatile Petroleum Hydro	carbons by GC								
TPH-Volatiles (GRO)	04	SW8015C	<0.10 mg/L		0.10	1	12/18/14 13:53	12/18/14 13:53	CL
Semivolatile Petroleum Hy	ydrocarbons by	GC							
TPH-Semi-Volatiles (DRO)	04	SW8015C	<0.50 mg/L		0.50	1	12/19/14 09:47	12/19/14 18:26	JHV
Surr: Pentacosane	04	SW8015C	60.2 %		40-160		12/19/14 09:47	12/19/14 18:26	JHV
Wet Chemistry Analysis									
Nitrate+Nitrite as N	04	SM22 4500-NO3F-2011	0.13 mg/L		0.10	1	12/22/14 13:12	12/22/14 13:12	LAO
Nitrogen, Total	04	Calc.	<0.50 mg/L		0.50	1	12/22/14 13:12	12/22/14 13:12	LBH
Phosphorus, Total	04	SM22 4500PE-2011	<0.02 mg/L		0.02	1	12/19/14 16:10	12/19/14 16:10	TLA
TKN as N	04	EPA351.2 R2.0	<0.50 mg/L		0.50	1	12/19/14 16:02	12/19/14 16:02	LBH
TSS	04	SM22 2540D-2011	5.6 mg/L		1.0	1	12/19/14 15:22	12/19/14 15:22	TLA



Certificate of Analysis

Final Report

Laboratory Order ID 14L0318

Client Name: EEE Consulting (Mechanicsville)

Date Received:

December 16, 2014 16:00

8525 Bell Creek Road

Date Issued:

Purchase Order:

December 23, 2014 16:55

Mechanicsville VA, 23116

Michael Easter Project Number:

Client Site I.D.: Chesterfield Airport

14-209

-Analytical Results

Submitted To:

Sample I.D. CA-6 Laboratory Sample ID: 14L0318-05

Date/Time Sampled:	12/16/2014 1	2:30			Reporting		Sample Prep	Analysis	
Parameter	Samp ID	Method	Result	Qual	Limit	D.F.	Date/Time	Date/Time	Analyst
Volatile Petroleum Hydro	carbons by GC								
TPH-Volatiles (GRO)	05	SW8015C	<0.10 mg/L		0.10	1	12/18/14 14:16	12/18/14 14:16	CL
Semivolatile Petroleum Hy	ydrocarbons by	GC							
TPH-Semi-Volatiles (DRO)	05	SW8015C	<0.50 mg/L		0.50	1	12/19/14 09:47	12/19/14 18:52	JHV
Surr: Pentacosane	05	SW8015C	67.8 %		40-160		12/19/14 09:47	12/19/14 18:52	JHV
Wet Chemistry Analysis									
Nitrate+Nitrite as N	05	SM22 4500-NO3F-2011	0.19 mg/L		0.10	1	12/22/14 13:15	12/22/14 13:15	LAO
Nitrogen, Total	05	Calc.	0.67 mg/L		0.50	1	12/22/14 13:15	12/22/14 13:15	LBH
Phosphorus, Total	05	SM22 4500PE-2011	0.09 mg/L		0.02	1	12/19/14 16:10	12/19/14 16:10	TLA
TKN as N	05	EPA351.2 R2.0	<0.50 mg/L		0.50	1	12/19/14 16:02	12/19/14 16:02	LBH
TSS	05	SM22 2540D-2011	34.3 mg/L		1.0	1	12/19/14 15:22	12/19/14 15:22	TLA



Certificate of Analysis

Final Report

Laboratory Order ID 14L0318

Client Name: EEE Consulting (Mechanicsville)

06

SM22

2540D-2011

Date Received:

December 16, 2014 16:00

8525 Bell Creek Road

Date Issued:

December 23, 2014 16:55

12/19/14 15:22

TLA

Mechanicsville VA, 23116

Project Number:

14-209

Submitted To: Michael Easter
Client Site I.D.: Chesterfield Airport

Purchase Order:

1.0

Analytical Results

TSS

Laboratory Sample ID: 14L0318-06

12/19/14 15:22

Sample I.D. CA-7					Laborat	ory S	ample ID: 1	4L0318-06	
Date/Time Sampled: 1	2/16/2014 1	2:20			Reporting		Sample Prep	Analysis	
Parameter	Samp ID	Method	Result	Qual	Limit	D.F.	Date/Time	Date/Time	Analyst
Volatile Petroleum Hydroca	rbons by GC								
TPH-Volatiles (GRO)	06	SW8015C	<0.10 mg/L		0.10	1	12/18/14 14:39	12/18/14 14:39	CL
Semivolatile Petroleum Hyd	rocarbons by	y GC							
TPH-Semi-Volatiles (DRO)	06	SW8015C	<0.50 mg/L		0.50	1	12/19/14 09:47	12/19/14 19:19	JHV
Surr: Pentacosane	06	SW8015C	76.6 %		40-160)	12/19/14 09:47	12/19/14 19:19	JHV
Wet Chemistry Analysis									
Nitrate+Nitrite as N	06	SM22 4500-NO3F-2011	0.24 mg/L		0.10	1	12/22/14 13:18	12/22/14 13:18	LAO
Nitrogen, Total	06	Calc.	<0.50 mg/L		0.50	1	12/22/14 13:18	12/22/14 13:18	LBH
Phosphorus, Total	06	SM22 4500PE-2011	<0.02 mg/L		0.02	1	12/19/14 16:10	12/19/14 16:10	TLA
TKN as N	06	EPA351.2 R2.0	<0.50 mg/L		0.50	1	12/19/14 16:02	12/19/14 16:02	LBH

34.8 mg/L



Certificate of Analysis

Final Report

Laboratory Order ID 14L0318

Client Name: EEE Consulting (Mechanicsville)

07

07

EPA351.2 R2.0

2540D-2011

Date Received:

December 16, 2014 16:00

8525 Bell Creek Road

Date Issued:

December 23, 2014 16:55

12/19/14 16:02

12/19/14 15:22

LBH

TLA

Mechanicsville VA, 23116

Michael Easter

Project Number:

14-209

12/19/14 16:02

12/19/14 15:22

Submitted To: Client Site I.D.:

TKN as N

TSS

Chesterfield Airport

Purchase Order:

0.50

1.0

Analytical Results **Laboratory Sample ID:** 14L0318-07 Sample I.D. CA-8 12/16/2014 11:55 Date/Time Sampled: Sample Prep Analysis Reporting Limit Date/Time Date/Time Qual D.F. Parameter Samp ID Method Result Analyst Volatile Petroleum Hydrocarbons by GC TPH-Volatiles (GRO) SW8015C <0.10 mg/L 0.10 12/18/14 15:03 12/18/14 15:03 CL Semivolatile Petroleum Hydrocarbons by GC TPH-Semi-Volatiles (DRO) 07 SW8015C <0.50 mg/L 0.50 12/19/14 09:47 12/19/14 20:37 JHV Surr: Pentacosane 07 SW8015C 61.9 % 40-160 12/19/14 09:47 12/19/14 20:37 JHV Wet Chemistry Analysis Nitrate+Nitrite as N 07 SM22 0.69 mg/L 0.10 12/22/14 13:21 12/22/14 13:21 LAO 4500-NO3F-2011 LBH 07 0.50 12/22/14 13:21 12/22/14 13:21 Nitrogen, Total Calc. 1.32 mg/L Phosphorus, Total 07 SM22 <0.02 mg/L 0.02 12/23/14 12:10 12/23/14 12:10 TLA 4500PE-2011

0.63 mg/L

9.8 mg/L



Certificate of Analysis

Final Report

Laboratory Order ID 14L0318

Client Name: EEE Consulting (Mechanicsville)

Date Received:

December 16, 2014 16:00

8525 Bell Creek Road

Date Issued:

December 23, 2014 16:55

Mechanicsville VA, 23116
Michael Easter

Project Number:

14-209

Client Site I.D.: Che

Submitted To:

Sample I.D.

Chesterfield Airport

Purchase Order:

Analytical Results

CA-9

Laboratory Sample ID: 14L0318-08

Date/Time Sampled:	12/16/2014 1	2:05			Reporting		Sample Prep	Analysis	
Parameter	Samp ID	Method	Result	Qual	Limit	D.F.	Date/Time	Date/Time	Analyst
Volatile Petroleum Hydroc	arbons by GC								
TPH-Volatiles (GRO)	08	SW8015C	<0.10 mg/L		0.10	1	12/18/14 15:26	12/18/14 15:26	CL
Semivolatile Petroleum Hy	drocarbons by	GC							
TPH-Semi-Volatiles (DRO)	08	SW8015C	<0.50 mg/L		0.50	1	12/19/14 09:47	12/19/14 21:04	JHV
Surr: Pentacosane	08	SW8015C	86.3 %		40-160		12/19/14 09:47	12/19/14 21:04	JHV
Wet Chemistry Analysis									
Nitrate+Nitrite as N	80	SM22 4500-NO3F-2011	0.41 mg/L		0.10	1	12/22/14 13:24	12/22/14 13:24	LAO
Nitrogen, Total	08	Calc.	0.75 mg/L		0.50	1	12/22/14 13:24	12/22/14 13:24	LBH
Phosphorus, Total	80	SM22 4500PE-2011	<0.02 mg/L		0.02	1	12/23/14 12:10	12/23/14 12:10	TLA
TKN as N	08	EPA351.2 R2.0	<0.50 mg/L		0.50	1	12/19/14 16:02	12/19/14 16:02	LBH
TSS	80	SM22 2540D-2011	3.6 mg/L		1.0	1	12/19/14 15:22	12/19/14 15:22	TLA

Analytical R	esults							
Sample I.D. Trip Bla	nk			4L0318-09				
Date/Time Sampled:	11/17/2014 15:25			Reporting		Sample Prep	Analysis	
Parameter	Samp ID Method	Result	Qual	Limit	D.F.	Date/Time	Date/Time	Analyst
Volatile Petroleum Hydro	ocarbons by GC							
TPH-Volatiles (GRO)	09 SW8015C	<0.10 mg/L		0.10	1	12/18/14 12:20	12/18/14 12:20	CL



Certificate of Analysis

Final Report

Laboratory Order ID 14L0318

Client Name: EEE Consulting (Mechanicsville) Date Received: December 16, 2014 16:00 Date Issued:

8525 Bell Creek Road

Mechanicsville VA, 23116

December 23, 2014 16:55

Submitted To: Michael Easter

Project Number: 14-209

Client Site I.D.: Chesterfield Airport Purchase Order:

Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry An	alysis		Preparation Method:	No Prep Wet Chem	
14L0318-01	300 mL / 300 mL	SM22 2540D-2011	BXL0401	SXL0477	
14L0318-02	200 mL / 200 mL	SM22 2540D-2011	BXL0401	SXL0477	
14L0318-03	805 mL / 805 mL	SM22 2540D-2011	BXL0401	SXL0477	
14L0318-04	1010 mL / 1000 mL	SM22 2540D-2011	BXL0401	SXL0477	
14L0318-05	405 mL / 405 mL	SM22 2540D-2011	BXL0401	SXL0477	
14L0318-06	500 mL / 500 mL	SM22 2540D-2011	BXL0401	SXL0477	
14L0318-07	500 mL / 500 mL	SM22 2540D-2011	BXL0401	SXL0477	
14L0318-08	945 mL / 945 mL	SM22 2540D-2011	BXL0401	SXL0477	
14L0318-01	25.0 mL / 25.0 mL	EPA351.2 R2.0	BXL0408	SXL0509	AL40095
14L0318-02	25.0 mL / 25.0 mL	EPA351.2 R2.0	BXL0408	SXL0509	AL40095
14L0318-03	25.0 mL / 25.0 mL	EPA351.2 R2.0	BXL0408	SXL0509	AL40095
14L0318-04	25.0 mL / 25.0 mL	EPA351.2 R2.0	BXL0408	SXL0509	AL40095
14L0318-05	25.0 mL / 25.0 mL	EPA351.2 R2.0	BXL0408	SXL0509	AL40095
14L0318-06	25.0 mL / 25.0 mL	EPA351.2 R2.0	BXL0408	SXL0509	AL40095
14L0318-07	25.0 mL / 25.0 mL	EPA351.2 R2.0	BXL0408	SXL0509	AL40095
14L0318-08	25.0 mL / 25.0 mL	EPA351.2 R2.0	BXL0408	SXL0509	AL40095
14L0318-01	25.0 mL / 25.0 mL	SM22 4500PE-2011	BXL0419	SXL0535	AL40034
14L0318-02	25.0 mL / 25.0 mL	SM22 4500PE-2011	BXL0419	SXL0535	AL40034
14L0318-03	25.0 mL / 25.0 mL	SM22 4500PE-2011	BXL0419	SXL0535	AL40034
14L0318-04	25.0 mL / 25.0 mL	SM22 4500PE-2011	BXL0419	SXL0535	AL40034
14L0318-05	25.0 mL / 25.0 mL	SM22 4500PE-2011	BXL0419	SXL0535	AL40034
14L0318-06	25.0 mL / 25.0 mL	SM22 4500PE-2011	BXL0419	SXL0535	AL40034
14L0318-01	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BXL0446	SXL0527	AL40100
14L0318-02	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BXL0446	SXL0527	AL40100
14L0318-03	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BXL0446	SXL0527	AL40100
14L0318-04	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BXL0446	SXL0527	AL40100
14L0318-05	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BXL0446	SXL0527	AL40100
14L0318-06	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BXL0446	SXL0527	AL40100
14L0318-07	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BXL0446	SXL0527	AL40100
14L0318-08	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BXL0446	SXL0527	AL40100
14L0318-07	25.0 mL / 25.0 mL	SM22 4500PE-2011	BXL0455	SXL0548	AL40034
14L0318-08	25.0 mL / 25.0 mL	SM22 4500PE-2011	BXL0455	SXL0548	AL40034



Certificate of Analysis

Final Report

Laboratory Order ID 14L0318

Client Name: EEE Consulting (Mechanicsville)

ville) Date Received:

December 16, 2014 16:00

8525 Bell Creek Road

Date Issued:

December 23, 2014 16:55

Mechanicsville VA, 23116

Project Number:

14-209

Submitted To: Michael Easter
Client Site I.D.: Chesterfield Airport

Purchase Order:

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Semivolatile Petro	eleum Hydrocarbons by GC		Preparation Method:	SW3510C	
14L0318-01	1000 mL / 1.00 mL	SW8015C	BXL0390	SXL0497	AK30156
14L0318-02	1000 mL / 1.00 mL	SW8015C	BXL0390	SXL0497	AK30156
14L0318-03	990 mL / 1.00 mL	SW8015C	BXL0390	SXL0497	AK30156
14L0318-04	970 mL / 1.00 mL	SW8015C	BXL0390	SXL0497	AK30156
14L0318-05	980 mL / 1.00 mL	SW8015C	BXL0390	SXL0497	AK30156
14L0318-06	980 mL / 1.00 mL	SW8015C	BXL0390	SXL0497	AK30156
14L0318-07	1000 mL / 1.00 mL	SW8015C	BXL0390	SXL0497	AK30156
14L0318-08	990 mL / 1.00 mL	SW8015C	BXL0390	SXL0497	AK30156
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Petroleum	Hydrocarbons by GC		Preparation Method:	SW5030B	
14L0318-01	5.00 mL / 5.00 mL	SW8015C	BXL0377	SXL0465	AL40042
14L0318-02	5.00 mL / 5.00 mL	SW8015C	BXL0377	SXL0465	AL40042
14L0318-03	5.00 mL / 5.00 mL	SW8015C	BXL0377	SXL0465	AL40042
14L0318-04	5.00 mL / 5.00 mL	SW8015C	BXL0377	SXL0465	AL40042
14L0318-05	5.00 mL / 5.00 mL	SW8015C	BXL0377	SXL0465	AL40042
14L0318-06	5.00 mL / 5.00 mL	SW8015C	BXL0377	SXL0465	AL40042
14L0318-07	5.00 mL / 5.00 mL	SW8015C	BXL0377	SXL0465	AL40042
14L0318-08	5.00 mL / 5.00 mL	SW8015C	BXL0377	SXL0465	AL40042
14L0318-09	5.00 mL / 5.00 mL	SW8015C	BXL0377	SXL0465	AL40042



Certificate of Analysis

Final Report

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8525 Bell Creek Road

Mechanicsville VA, 23116

Chesterfield Airport

Project Number:

December 23, 2014 16:55

Submitted To: Michael Easter

Client Site I.D.:

Purchase Order:

14-209

Volatile Petroleum Hydrocarbons by GC - Quality Control

Air Water & Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BXL0377 - SW5030B										
Blank (BXL0377-BLK1)				Prepared &	Analyzed	l: 12/18/20	014			
TPH-Volatiles (GRO)	<0.10 mg/L	0.10	mg/L							
LCS (BXL0377-BS1)				Prepared &	Analyzed	l: 12/18/20	014			
TPH-Volatiles (GRO)	1.08 mg/L	0.10	mg/L	1.00		108	70-130			
LCS Dup (BXL0377-BSD1)				Prepared &	Analyzed	l: 12/18/20	014			
TPH-Volatiles (GRO)	1.09 mg/L	0.10	mg/L	1.00		109	70-130	0.142	20	
Matrix Spike (BXL0377-MS1)	Sour	ce: 14L0318	3-08	Prepared &	Analyzed	l: 12/18/20	014			
TPH-Volatiles (GRO)	1.06 mg/L	0.10	mg/L	1.00 <0.	10 mg/L	106	70-130			
Matrix Spike Dup (BXL0377-MSD1)	Sour	ce: 14L0318	3-08	Prepared &	Analyzed	l: 12/18/20	014			
TPH-Volatiles (GRO)	1.07 mg/L	0.10	mg/L	1.00 <0.	10 mg/L	107	70-130	0.190	20	



Certificate of Analysis

Final Report

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December 16, 2014 16:00

8525 Bell Creek Road

Date Issued:

December 23, 2014 16:55

Mechanicsville VA, 23116

Michael Easter

Project Number:

14-209

%REC

Submitted To: Client Site I.D.:

Chesterfield Airport

Purchase Order:

Source

Semivolatile Petroleum Hydrocarbons by GC - Quality Control

Air Water & Soil Laboratories, Inc.

Spike

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Batch BXL0390 - SW3510C										
Blank (BXL0390-BLK1)				Prepared	d & Analyzed	d: 12/19/2	014			
TPH-Semi-Volatiles (DRO)	<0.50 mg/L	0.50	mg/L							
Surr: Pentacosane	0.196		mg/L	0.250		78.4	40-160			
LCS (BXL0390-BS1)				Prepared	d & Analyzed	d: 12/19/2	014			
TPH-Semi-Volatiles (DRO)	4.1 mg/L	0.50	mg/L	5.00		81.0	40-160			
Surr: Pentacosane	0.206		mg/L	0.250		82.2	40-160			
LCS Dup (BXL0390-BSD1)				Prepared	d & Analyzed	d: 12/19/2	014			
TPH-Semi-Volatiles (DRO)	4.1 mg/L	0.50	mg/L	5.00		82.0	40-160	1.22	20	
Surr: Pentacosane	0.212		mg/L	0.250		85.0	40-160			
Matrix Spike (BXL0390-MS1)	Sour	ce: 14L031	8-06	Prepared	d & Analyzed	d: 12/19/2	014			
TPH-Semi-Volatiles (DRO)	4.0 mg/L	0.50	mg/L	5.00	<0.50 mg/L	80.8	40-160			
Surr: Pentacosane	0.197		mg/L	0.250		79.0	40-160			
Matrix Spike Dup (BXL0390-MSD1)	Sour	ce: 14L031	8-06	Prepared	d & Analyzed	d: 12/19/2	014			
TPH-Semi-Volatiles (DRO)	4.1 mg/L	0.50	mg/L	5.00	<0.50 mg/L	81.2	40-160	0.465	20	
Surr: Pentacosane	0.186		mg/L	0.250		74.3	40-160			



Certificate of Analysis

Final Report

Laboratory Order ID 14L0318

Client Name: EEE Consulting (Mechanicsville)

Date Received:

December 16, 2014 16:00

8525 Bell Creek Road

Mechanicsville VA, 23116

Date Issued:

December 23, 2014 16:55

RPD

Submitted To: Michael Easter

Project Number:

Source

14-209

%REC

Client Site I.D.: Che

Chesterfield Airport

Purchase Order:

Wet Chemistry Analysis - Quality Control

Air Water & Soil Laboratories, Inc.

Spike

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
widiyte	resuit	Liiiii	Onito	LOVOI	result	701 CLO	Lillito		Liiiii	Quai
atch BXL0401 - No Prep Wet Chem										
Blank (BXL0401-BLK1)				Prepared	& Analyzed	d: 12/19/2	014			
SS	<1.0 mg/L	1.0	mg/L							
CS (BXL0401-BS1)				Prepared	& Analyzed	d: 12/19/2	014			
SS	102 mg/L	1.0	mg/L	100		102	80-120			
CS Dup (BXL0401-BSD1)				Prepared	& Analyzed	d: 12/19/2	014			
SS	94.0 mg/L	1.0	mg/L	100		94.0	80-120	8.16	10	
	_	ce: 14L0303	3-01	Prepared	& Analyzed	d: 12/19/2	014			
uplicate (BXL0401-DUP1)	Sour	CC. ITLUJU	<i>,</i>				• • •			
Ouplicate (BXL0401-DUP1) SS Batch BXL0408 - No Prep Wet Chem	Sour 405 mg/L	1.0	mg/L	•	440 mg/L			17.4	30	
SS				•				17.4	30	
satch BXL0408 - No Prep Wet Chem	405 mg/L	1.0	mg/L	3				17.4	30	
satch BXL0408 - No Prep Wet Chem				3	40 mg/L			17.4	30	
ss atch BXL0408 - No Prep Wet Chem lank (BXL0408-BLK1) KN as N	405 mg/L	1.0	mg/L	Prepared	40 mg/L	d: 12/19/2	014	17.4	30	
SS Satch BXL0408 - No Prep Wet Chem Slank (BXL0408-BLK1) KN as N CS (BXL0408-BS1)	405 mg/L	1.0	mg/L	Prepared	& Analyzed	d: 12/19/2	014	17.4	30	
SS Satch BXL0408 - No Prep Wet Chem Slank (BXL0408-BLK1) KN as N CS (BXL0408-BS1) KN as N	405 mg/L <0.50 mg/L	0.50	mg/L	Prepared Prepared 10.0	& Analyzed	d: 12/19/2 d: 12/19/2 101	014 014 90-110	17.4	30	
SS Satch BXL0408 - No Prep Wet Chem Slank (BXL0408-BLK1) KN as N CS (BXL0408-BS1) KN as N CS Dup (BXL0408-BSD1)	405 mg/L <0.50 mg/L	0.50	mg/L	Prepared Prepared 10.0	& Analyzed	d: 12/19/2 d: 12/19/2 101	014 014 90-110	2.80	20	
SS Satch BXL0408 - No Prep Wet Chem Iank (BXL0408-BLK1) KN as N CS (BXL0408-BS1) KN as N CS Dup (BXL0408-BSD1) KN as N	<0.50 mg/L 10.1 mg/L 10.4 mg/L	0.50	mg/L mg/L mg/L	Prepared 10.0 Prepared 10.0	& Analyzed	d: 12/19/2 d: 12/19/2 101 d: 12/19/2 104	014 014 90-110 014 90-110			
SS	<0.50 mg/L 10.1 mg/L 10.4 mg/L	0.50 0.50	mg/L mg/L mg/L	Prepared 10.0 Prepared 10.0 Prepared	& Analyzed & Analyzed & Analyzed	d: 12/19/2 d: 12/19/2 101 d: 12/19/2 104	014 014 90-110 014 90-110			
SS Batch BXL0408 - No Prep Wet Chem Blank (BXL0408-BLK1) KN as N CS (BXL0408-BS1) KN as N CS Dup (BXL0408-BSD1) KN as N latrix Spike (BXL0408-MS1)	<0.50 mg/L <0.50 mg/L 10.1 mg/L 10.4 mg/L Sour 10.5 mg/L	0.50 0.50 0.50	mg/L mg/L mg/L mg/L mg/L	Prepared 10.0 Prepared 10.0 Prepared 10.0 10.0	& Analyzed & Analyzed & Analyzed & Analyzed	d: 12/19/2 d: 12/19/2 101 d: 12/19/2 104 d: 12/19/2 91.6	014 014 90-110 014 90-110 014 90-110			



Certificate of Analysis

Final Report

Laboratory Order ID 14L0318

Client Name: EEE Consulting (Mechanicsville) Date Received: Date Issued:

December 16, 2014 16:00

8525 Bell Creek Road Mechanicsville VA, 23116

Michael Easter

Project Number:

December 23, 2014 16:55

Submitted To:

Purchase Order:

14-209

Client Site I.D.: Chesterfield Airport

Wet Chemistry Analysis - Quality Control

Air Water & Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BXL0408 - No Prep Wet Chem										
Matrix Spike Dup (BXL0408-MSD1)	Soui	rce: 14L0308	3-01	Prepared	& Analyzed	: 12/19/20	014			
TKN as N	9.37 mg/L	0.50	mg/L	10.0 1	.33 mg/L	80.4	90-110	11.2	20	M
Matrix Spike Dup (BXL0408-MSD2)	Soui	rce: 14L0328	3-07	Prepared	& Analyzed	: 12/19/20	014			
TKN as N	4.49 mg/L	0.50	mg/L	10.0 <	0.50 mg/L	44.9	90-110	88.8	20	M, P
Batch BXL0419 - No Prep Wet Chem										
Blank (BXL0419-BLK1)				Prepared	& Analyzed	: 12/19/20	014			
Phosphorus, Total	<0.02 mg/L	0.02	mg/L		•					
LCS (BXL0419-BS1)				Prepared	& Analyzed	: 12/19/20	014			
Phosphorus, Total	0.48 mg/L	0.02	mg/L	0.500		95.3	80-120			
LCS Dup (BXL0419-BSD1)				Prepared	& Analyzed	: 12/19/20	014			
Phosphorus, Total	0.48 mg/L	0.02	mg/L	0.500		95.1	80-120	0.210	20	
Matrix Spike (BXL0419-MS1)	Soui	rce: 14L0159	-01	Prepared	& Analyzed	: 12/19/20	014			
Phosphorus, Total	0.50 mg/L	0.02	mg/L	0.500 0	.14 mg/L	73.8	70-130			
Matrix Spike Dup (BXL0419-MSD1)	Soui	rce: 14L0159	-01	Prepared	& Analyzed	: 12/19/20	014			
Phosphorus, Total	0.52 mg/L	0.02	mg/L	0.500 0	.14 mg/L	77.8	70-130	3.88	20	
Batch BXL0446 - No Prep Wet Chem										
Blank (BXL0446-BLK1)				Prepared	& Analyzed	: 12/22/20	014			
Nitrate+Nitrite as N	<0.10 mg/L	0.10	mg/L	•	•					



Certificate of Analysis

Final Report

Laboratory Order ID 14L0318

Client Name: EEE Consulting (Mechanicsville) Date Received: Date Issued:

December 16, 2014 16:00

8525 Bell Creek Road

Mechanicsville VA, 23116

December 23, 2014 16:55

Submitted To:

Michael Easter

Project Number:

14-209

Client Site I.D.:

Chesterfield Airport

Purchase Order:

Wet Chemistry Analysis - Quality Control

Air Water & Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BXL0446 - No Prep Wet Chem										
LCS (BXL0446-BS1)				Prepared	I & Analyzed	: 12/22/20	014			
Nitrate+Nitrite as N	2.31 mg/L	0.1	mg/L	2.50	,	92.4	80-120			
LCS Dup (BXL0446-BSD1)				Prepared	I & Analyzed	: 12/22/20	014			
Nitrate+Nitrite as N	2.33 mg/L	0.1	mg/L	2.50	·	93.1	80-120	0.690	20	
Matrix Spike (BXL0446-MS1)	Sour	ce: 14L0222	-12	Prepared	I & Analyzed	: 12/22/20	014			
Nitrate+Nitrite as N	29.3 mg/L	0.50	mg/L	12.5	15.3 mg/L	112	75-125			
Matrix Spike (BXL0446-MS2)	Sour	ce: 14L0335	-01	Prepared	I & Analyzed	: 12/22/20	014			
Nitrate+Nitrite as N	5.92 mg/L	0.10	mg/L	2.50	2.90 mg/L	121	75-125			
Matrix Spike Dup (BXL0446-MSD1)	Sour	ce: 14L0222	-12	Prepared	I & Analyzed	: 12/22/20	014			
Nitrate+Nitrite as N	29.4 mg/L	0.50	mg/L	12.5	15.3 mg/L	113	75-125	0.358	20	
Matrix Spike Dup (BXL0446-MSD2)	Sour	ce: 14L0335	-01	Prepared	I & Analyzed	: 12/22/20	014			
Nitrate+Nitrite as N	5.94 mg/L	0.10	mg/L	2.50	2.90 mg/L	122	75-125	0.321	20	
Batch BXL0455 - No Prep Wet Chem										
Blank (BXL0455-BLK1)				Prepared	I & Analyzed	: 12/23/20	014			
Phosphorus, Total	<0.02 mg/L	0.02	mg/L							
LCS (BXL0455-BS1)				Prepared	I & Analyzed	: 12/23/20	014			
Phosphorus, Total	0.48 mg/L	0.02	mg/L	0.500	•	95.5	80-120			
LCS Dup (BXL0455-BSD1)				Prepared	I & Analyzed	: 12/23/20	014			
Phosphorus, Total	0.48 mg/L	0.02	mg/L	0.500		96.9	80-120	1.46	20	



Certificate of Analysis

Final Report

Laboratory Order ID 14L0318

Client Name: EEE Consulting (Mechanicsville) Date Received:

December 16, 2014 16:00

8525 Bell Creek Road

Mechanicsville VA, 23116

Date Issued:

December 23, 2014 16:55

Submitted To:

Michael Easter

Project Number:

14-209

Client Site I.D.:

Chesterfield Airport

Purchase Order:

Wet Chemistry Analysis - Quality Control

Air Water & Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BXL0455 - No Prep Wet Chem										

Matrix Spike (BXL0455-MS1)	Source	14L0340	-01	Prepared & Analyzed	l: 12/23/2	2014			
Phosphorus, Total	0.62 mg/L	0.02	mg/L	0.500 0.10 mg/L	104	70-130			
Matrix Spike Dup (BXL0455-MSD1)	Source	14L0340	-01	Prepared & Analyzed	l: 12/23/2	2014			
Phosphorus, Total	0.63 mg/L	0.02	mg/L	0.500 0.10 mg/L	106	70-130	1.45	20	



Certificate of Analysis

Final Report

Laboratory Order ID 14L0318

Client Name: EEE Consulting (Mechanicsville) Date Received: Date Issued:

December 16, 2014 16:00

8525 Bell Creek Road

Mechanicsville VA, 23116

Chesterfield Airport

Project Number:

December 23, 2014 16:55

14-209

Submitted To: Michael Easter

Client Site I.D.:

Purchase Order:

Certified Analyses included in this Report

Analyte		Certification	s	
EPA351.2 R2.0 in Non-Potable Water TKN as N		VELADNO		
		VELAP,NC		
SM22 2540D-2011 in Non-Potable Water TSS		VELAP,NC		
		VLLAF,ING		
SM22 4500-NO3F-2011 in Non-Potable Water Nitrate+Nitrite as N		VELAP		
SM22 4500PE-2011 in Non-Potable Water				
Phosphorus, Total		VELAP,NC		
SW8015C in Non-Potable Water				
TPH-Semi-Volatiles (DRO)		VELAP,NC,WV)EP	
TPH-Volatiles (GRO)		VELAP,NC,WVE)EP	
Code	Description		Lab Number	Expires
MdDOE	Maryland DE Drinking Water		341	12/31/2014
NC	North Carolina DENR		495	12/31/2014
VELAP	NELAC-Virginia Certificate #7610		460021	06/14/2015



Certificate of Analysis

Final Report

Laboratory Order ID 14L0318

Client Name: EEE Consulting (Mechanicsville) Date Received:

December 16, 2014 16:00 December 23, 2014 16:55

8525 Bell Creek Road

Mechanicsville VA, 23116

Project Number:

Date Issued:

14-209

Submitted To: Michael Easter

Chesterfield Airport Purchase Order:

Summary of Data Qualifiers

Matrix spike recovery is outside established acceptance limits M

P Duplicate analysis does not meet the acceptance criteria for precision

Relative Percent Difference RPD

Qualifers Qual

Client Site I.D.:

-RE Denotes sample was re-analyzed

D.F. Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section.



1941 REYMET ROAD **RICHMOND, VIRGINIA 23237** (804) 358-8295 PHONE (804)358-8297 FAX

Chain of Custody Form #: D1331 Rev. 1.0 Effective: Feb 14, 2014

COMPANY NAME: ESC. INVOICE TO: ESC. Consulting INVOICE TO: ESC. Consulting INVOICE TO: ESC. Consulting INVOICE TO: ESC. Consulting INVOICE ACCEPT. M. cheed Estated INVOICE ACCEPT. M. cheed Estated INVOICE ADDRESS: \$3-5 Bed Locate Rd INVOICE POINTER: M. cheed Estated INVOICE POINTE	LABORA*	FORI	ES, IN	IC.				CHAI	N OF	cus	TOE	ΟY								PAGE	OF	t_
CONTACT: M. Shoul Faire: INVOICE CONTACT: M. Shoul Faire: INVOICE ADDRESS: 95.5 Bell Creek Rd INVOICE ADRESS: 95.5 Bell Creek Rd INVOICE ADDRESS: 95.5 Bell	COMPANY NAME: EEL					IN	OICE TO	: E	EE	Cons	ul	tong		PR	OJEC	NAME/	Quote	#: Q	ester	field ,	Airpol	+
ADDRESS: 85-3 Bell Creek Rd INVOICE ADDRESS: 85-3 Bell Creek Rd PROJECT NUMBER: 14-09 PHONE #: (804) 443-3330 INVOICE PHONE #: (804) 443-3330 P.O. #: Pretreatment Program: Is sample from a chlorinated supply? YES ID PWS LD. #: SAMPLER NAME (PRINT): MI: Check Rd SAMPLER SIGNATURE: Mill SAMPLER NAME (PRINT): MI: Check Rd SAMPLER SIGNATURE: Mill SAMPLER NAME (PRINT): MI: Check Rd SAMPLER SIGNATURE: Mill SAMPLER NAME (PRINT): MILL SAMPLE LD. PRINTING SAMPLER SIGNATURE: Mill SAMPLER NAME (PRINT): MILL SAMPLER SIGNATURE: Mill SAMPLER NAME (PRINT): MILL SAMPLER SIGNATURE: MILL SAMPLER NAME (PRINT): MILL SAMPLER SIGNATURE: MILL SAMPLER NAME (PRINT): MILL SAMPLER SIGNATURE: MILL SAMPLER NAME (PRINT): MILL SAMPLER SIGNATURE: MILL SAMPLER	CONTACT: Michael Face	Her				IN	OICE CC			chas	IF	asse	26									
PHONE #: (804) 443- 3330 INVOICE PHONE #: (804) 443- 3330 PLO. #: Pretreatment Program: Is sample for compliance reporting? YES NO Is sample from a chlorinated supply? YES © PWS.I.D. #: SAMPLER NAME (PRINT): M; Cheek Enforce Suppliance reporting? YES NO Is sample from a chlorinated supply? YES © PWS.I.D. #: Turn Around Time: Day(s) Matrix Codes: WW-Waste Water/Storm Water OW-Ground Water DW-Drinking Water S-Soll/Solids OR-Organic An-Air WP-Wije OT-Other. CLIENT SAMPLE I.D. CLIENT SAMPLE I.D. OR DESTRUCTIVE O			KR	1		IN	OICE AD	DRESS	5: 85	L B	M	Chee	k Rd	PR	OJEC	NUMBE	R:	14-2	69	1		1 8
FAX #: (8 pt 1 1/2 - 3374 EMAIL: meas + of Bree-consulting, cem Pretreatment Program: Is sample for compliance reporting? YES NO Is sample from a chlorinated supply? YES NO PWS.I.D. #: SAMPLER NAME (PRINT): M.; choule for sample from a chlorinated supply? YES NO PWS.I.D. #: Turn Around Time: Day(s) Matrix Codes: WW-Waste Water/Storm Water OW-Ground Water DW-Drinking Water s-solids-like or soft game in the code i															D. #:					Er 14.	33923	+
Is sample for compliance reporting? YES NO Is sample from a chlorinated supply? YES NO PWS I.D.#: SAMPLER NAME (PRINT): M; Chock Estatu SAMPLER SIGNATURE: Multiple SAMPL				E	MAIL: A								BILL	Pre	etreatm	ent Progr	ram:	77	130			
SAMPLER NAME (PRINT): M: Chock Easter SAMPLER SIGNATURE: Multiple State			YE	\$ N									YES					PWS I	.D. #:			1
Matrix Codes: WwwWaste Water/Storm Water GW-Ground Water DW-Drinking Water S-Sollsolids OR-Organic A-Pair WP-Wipe OT-Other CLIENT SAMPLE I.D. CL	SAMPLER NAME (PRINT): A	1:0	hove	(E	aster	SA	MPLER S	IGNAT	URE:	/	n	in	1 5	100	-		T M	Turn A	Arounc	d Time: 🤇	Day	y(s)
CLIENT SAMPLE I.D. CLIENT SAMPLE I.D. CHyptocholoric Acid SS-blutine, Standard Artisochia Arti				200			Water S=Soil	/Solids O	R=Orga	nic A=Air	WP=	Wipe O	T=Other_				191	7.5	£ 1	CON	MENT	S
1) CA-1 CA-1 CA-1 CA-1 CA-1 CA-2 CA-3 CA-3 CA-3 CA-3 CA-7 CA-6 CA-7 CA-8 CA-9 CA-9 CA-9 CA-7 CA-8 CA-9 CA-1 CA-1 CA-1 CA-1 CA-1 CA-2 CA-3 CA-3 CA-3 CA-6 CA-7 CA-8 CA-9 CA-1			1	(S)			F EFT				П		AN	AI YSI	S / (PR	ESERVA	TIVE)		177 413 156		100
1) CA - 1 2) CA - 2 3) CA - 3 4) CA - 4 13:05	CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals	Start	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	DRO	0	55	ALC: N	Nitrogen				H=Sodium H Acid Z=Zinc Thiosulfa PLEASE NOTI	ydroxide A=/ : Acetate T=: ate M=Metha E PRESERV. CE CHECKS	Ascorbic Sodium anol
3) CA-3 4) CA-4 5) CA-6 6) CA-7 7) CA-8 8) CA-9 9) + Pip blank 11/17/19 /5:85 10) DATE / TIME RECEIVED: DATE /	1) CA-1	X					12/16/14	13:30		WW	5	X	X	X	V	X		74.	Ai I	MSD	* M	S
4) CA- 4 (3) CA- 6 (6) CA- 7 (7) CA- 8 (8) CA- 9 (9) + Fig blank (10) RELINQUISHED: DATE / TIME RECEIVED:	2) CA - 7	1			74 B		1	13:15				1	1	1	/	1			2	from	CA.	-7_
5) CA - 6 6) CA - 7 7) CA - 8 8) CA - 9 9) + Fig blank 10) RELINQUISHED: DATE / TIME RECEIVED: DATE / TIME REC	3) CA-3							n:50										75				
6) CA - 7 7) CA - 8 8) CA - 9 9) + rip blank 11/17/19/15:35 10) RELINQUISHED: DATE / TIME RECEIVED: DATE / TIM	4) CA-4				1 11			13:05														
8) CA - 9 8) CA - 9 9) + rip blank 11/17/19 15:35 DATE / TIME RECEIVED: DATE / TIME REC	5) CA-6							12:30					1 1									
8) CA-9 9) + rip blank 11/17/19 /5:35 DATE / TIME RECEIVED: DATE								19:30														
9) + rip blank 10) RELINQUISHED: DATE / TIME RECEIVED: DATE / TIM	7) CA-8	11,					(11:55						,								
DATE / TIME RECEIVED: DATE / TIME RECEIVED: DATE / TIME RECEIVED: DATE / TIME RECEIVED: DATE / TIME RECEIVED: DATE / TIME RECEIVED: DATE / TIME Level II RELINQUISHED: DATE / TIME RECEIVED: DATE / TIME Level III RECEIVED: RECEIVED: RECEIVED: RECEIVED: RECEIVED: DATE / TIME Level III RECEIVED: RECEIVED	8) CA-9	V					Y	12:05		V	V	V	V	V	4	4		TIL	15		146	
RELINQUISHED: DATE / TIME RECEIVED: DATE / TIME RECEIVED: DATE / TIME Level III Level III Recult 12/16/2014 Due: 12/23/2014	9) +rip blank						11/17/14	15:8					X									
RELINQUISHED: DATE / TIME RECEIVED: DATE / TIME RECEIVED: DATE / TIME Level III Level III Recult 12/16/2014 Due: 12/23/2014						10	0									1						
RELINQUISHED: DATE / TIME RECEIVED: DATE / TIME Level III DEfault Project Level IV DEFAULT Project Recd: 12/16/2014 Due: 12/23/2014	Mill rooms 12	116/1	4 4	:00 PM	1 /4	44	16 D	EC 20	214	16.07	Level	1			El	EE						
	RELINQUISHED:	DAT	E / TIN	ME	RECEIVE	D:			DATE /	TIME			pesse ness	41.0318	De Re				Due: 1	12/23/20	LA Page 2	1 of 24

Sample Condition Form#: F1302 Rev. #: 4.0 Effective:Dec 04, 2014 Page 1 of 1



1941 Reymet Road • Richmond, Virginia 23237 • Tel : (804) 358-8295 Fax: (804) 358-8297

14L0318

Opene	d by: (Initials)	Sample Co	Lab ID No.: Date Cooler Opened:	14L0318	EEE Default I Recd: 12	Projec 2/16/2	t 014	Due: 12/23/2014
					<u>res</u>	NO	N/A	
1.	How were samples r	Fed Ex UPS Courier						
2.	Were custody seals	Walk In used?				P		
3.	If yes, are custody se	eals unbroken and inta	act at the date and time of arrival	?			P	
4.	Are the custody paper	ers filled out completel	y and correctly?		P'			
5.	Do all bottle labels a	gree with custody pap	ers?		P			
6.	Are the samples rec	eived on ice?						
7.	Is the temperature by (above freezing to 6°		sample within acceptable limits?)				
8.	Are all samples within	in holding time for requ	uested laboratory tests?					
9	Is a sufficient amoun	t of sample provided t	o perform the tests indicated?					
10	Are all samples in pr	oper containers for the	e analyses requested?		Ø			
11	Are all samples appr	opriately preserved for	r the analyses requested?		P			
12	Are all volatile organ	ic containers free of he	eadspace?		P			
13	Are all TOX containe	ers free of headspace?					型	
14		d with each VOC samp nk is not received with	ole set? Circle applicable method the sample set)	i:	P			
	EPA 8011 EPA	A 504 EPA 8260	EPA 624					
	RSK-175	A 8015 (GRO)	EPA 8021					
	EPA 524 GR	O Wisconsin DNR (wa	ter and/or methanol trip blank must t	oe provid	ded)			
		₂ 2	COMMENTS					
								-
FOR LA	B USE ONLY:							_
CrVI pre	served date/time:							
	ol'n ID:		Analyst intials:					
1N NaOl	H ID: or		5N NaOH ID:		THIS DOCUME	NT IS UN	CONTRO	OLLED WHEN PRINTED



Sample Preservation Log

Sample Preservation Log Form #: F1301 Rev # 3.0 Effective: Jan 14, 2014

Page 1 of 1

Date Performed: 17 DEL ZOIY

Analyst Performing Check:

P/A = Present/Absent

	er ID	Met	als	(Cyani	de		Sulfi		A	mmo			TKN		Р	hos,			O3+N	102	DRO		(8	estici 081/6	08)		SVO(
Sample ID	Container ID	pH as Received	Final pH	Re > 12	Other	Final pH (If adjust.)	Re > 9	H as ceived Other	Final pH (If adjust.)	Red < 2	H as ceived Other	Final pH (If adjust.)	Re < 2	Other	Final pH (If adjust.)	Re	Other	Final pH (If adjust.)	Rei	H as ceived Other	Final pH (If adjust.)	pH as Received	Final pH (If adjust.)	Res Rec Presen	CI as eived Absent	Res.Cl P/A (If adjust.)	Res. Rece Present	CI as eived Absent	Res.Cl P/A (If adjust.)	pH Rece	as ived Other	Final pH (If adjust.)	pH as Received Other	Final pH (If adjust.)
01	A																																	
01	D												/			/			/															
07	А																		r															
02	D												/			/			/															
63	A												_																					
03	D												/			/			/															
04	A		•										_																					
04	D		3							П			/			/			/															
05	A												_																					
05	D		N.										/			/			/															
06	A															_																		
09	В		п																															
019	c					\neg														./														
οφ	5												/		\dashv	/																		
07	A		2.													_																		

NaOH ID:	HCL ID:
H2SO4 ID:	HNO3 ID:



Sample Preservation Log

Sample Preservation Log Form #: F1301 Rev # 3.0 Effective: Jan 14, 2014 Page 1 of 1

Date Performed: 17 DEC 2014

Analyst Performing Check:

P/A = Present/Absent

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	Jer ID	Me	tals	,	Cyani	de	,	Sulfic	de	А	mmc	nia		TKI	V	F	Phos,	Tot	N	03+N	102		DRO	o	1 (estic 8081/6	(80	(8	SVO 3270/6	(25)						
Sample ID	Container ID	pH as Received	nal pH adjust,)	Red	H as ceived	Final pH (If adjust.)	Rec	d as eived	nal pH adjust.)	Red	H as ceived Other	nal pH	Re	pH as eceived Other	nal pH adjust.)	R	pH as eceived Other	nal pH adjust.)	Rei	H as ceived	nal pH adjust.)	Re	H as ceived Other	nal pH adjust.)	Res	.Cl as eived	Res.Cl P/A (If adjust.)	Res Rec	.CI as eived	s.Cl A (If just.)	pH Rece		Final pH (If adjust.)	pH as Receive	nal pH	(If adjust.)
Sample ID	0	< 2 Oth	e E E	> 12	Other	ΕE	> 9	Other	ii E	< 2	Other	il E	< 2	Other	E E	< 2	Other	iĒΈ	< 2	Other	il E	< 2	Other	il E	Presen	Absent	a P Re	Presen	Absent	a P R		Other	ūξ	Oti	ner iii	E
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NaOH ID:	HCL ID:	
H2SO4 ID:	HNO3 ID:	

Weather History for Richmond Chesterfield County, VA

View Current Weather in Richmond Chesterfield County, VA [/cgi-bin/findweather/getForecast?query=37.40657043,-77.52242279] Change the Weather History Date:

December

16

2014

View

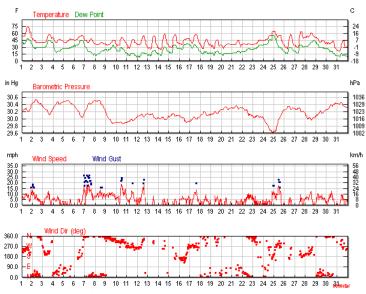
Month of December, 2014

« Previous Month [/history/airport/KFCI/2014/11/16/MonthlyHistory.html] Next Month » [/history/airport/KFCI/2015/1/16/MonthlyHistory.html]

Daily [/history/airport/KFCI/2014/12/16/DailyHistory.html] Weekly [/history/airport/KFCI/2014/12/16/WeeklyHistory.html] Monthly []

	Max	Avg	Min	Sum
Temperature				
Max Temperature	73 °F	51 °F	37 °F	
Mean Temperature	62 °F	42 °F	32 °F	
Min Temperature	50 °F	33 °F	21 °F	
Degree Days				
Heating Degree Days (base 65)	34	23	4	711
Cooling Degree Days (base 65)	0	0	0	0
Growing Degree Days (base 50)	12	1	0	22
Dew Point				
Dew Point	55 °F	25 °F	9 °F	
Precipitation				
Precipitation	0.74 in	0.08 in	0.00 in	2.41 in
Snowdepth	-	-	-	-
Wind				
Wind	18 mph	4 mph	0 mph	
Gust Wind	26 mph	19 mph	16 mph	
Sea Level Pressure				
Sea Level Pressure	30.54 in	30.17 in	29.62 in	

Monthly Weather History Graph



Certify This Report [http://help.wunderground.com/knowledgebase/topics/17761-history-almanac]

Search for Another Location

Δ			

KFCI

Submit

Trip Planner

Search our weather history database for the weather conditions in past years. The results will help you decide how hot, cold, wet, or windy it might be!

Date:

December

16

Submit

Astronomy

Dec. 16, 2014		Rise		Set			
Actual Time		7:17 AN	и EST	4:53 PM EST			
Civil Twilight		6:48 A	M EST	5:22 PM	EST		
Nautical Twiligh	nt	6:15 AI	M EST	ST 5:55 PM EST			
Astronomical T	wilight	5:44 A	M EST	ST 6:27 PM EST			
Moon		1:37 AN	и EST (12/16)	[12/16] 1:17 PM EST [12/16]			
Length of Visibi	le Light	10h 34	m				
Length of Day		9h 35r	n				
Waning Cresce	nt, 30% (30 % of the Moon is Illuminated					
Dec 16	Dec	21	Dec 28	J	Jan 13		

First Quarter

 $Visit\ Astronomy\ (/sky/ShowSky.asp?TheLat=37.40657043\&TheLon=-77.52242279\&TimeZoneName=America/New_York)$

Last Quarter

Full

Weather History Calendar

Waning Crescent

« Previous Month [/history/airport/KFCI/2014/11/16/MonthlyHistory.html#d		s 2013 /history/airport/KFCI/2013/12/16/MonthlyHistory.html#cal	Decer endar) 2014	nber 2015 » [/history/airport/KFCI/2015/12/16/MonthlyHist	ory.html
Sunday		Monday		Tuesday	
		1 [/history/airport/KFCI/2014/12/1/DailyHistory.html]	*	2 [/history/airport/KFCI/2014/12/2/DailyHistory.html]	4
		Actual:		Actual:	
		73 48	0.03	48 39	0.00
		Average:		Average:	
		-1-	-	-1-	-
7 [/history/airport/KFCI/2014/12/7/DailyHistory.html]	*	8 [/history/airport/KFCI/2014/12/8/DailyHistory.html]	-	9 [/history/airport/KFCI/2014/12/9/DailyHistory.html]	*
Actual:		Actual:		Actual:	
48 37	0.00	39 35	0.00	44 33	80.0
Average:		Average:		Average:	
-1-	-	-1-	-	-1-	-
14 (/history/airport/KFCI/2014/12/14/DailyHistory.html)	*	15 [/history/airport/KFCI/2014/12/15/DailyHistory.html]	*	16 [/history/airport/KFCI/2014/12/16/DailyHistory.html]	
Actual:		Actual:		Actual:	
59 24	0.00	57 28	0.00	48 35	0.35
Average:		Average:		Average:	
- -	-	-1-	-	-1-	-

Sunday		Monday		Tuesday	
21 [/history/airport/KFCI/2014/12/21/DailyHistory.html]		22 [/history/airport/KFCI/2014/12/22/DailyHistory.html]	-	23 [/history/airport/KFCI/2014/12/23/DailyHistory.html]	
Actual:		Actual:		Actual:	
44 30	0.00	37 35	0.16	46 35	0.29
Average:		Average:		Average:	
- -	-	-1-	-	-1-	-
28 [/history/airport/KFCI/2014/12/28/DailyHistory.html]	*	29 [/history/airport/KFCI/2014/12/29/DailyHistory.html]	4	30 [/history/airport/KFCI/2014/12/30/DailyHistory.html]	-
Actual:		Actual:		Actual:	
60 50	0.00	51 37	0.42	42 23	0.00
Average:		Average:		Average:	
-1-	-	- -	-	-1-	-

 $Print\ This\ Weather\ Calendar\ [http://printer.wunderground.com/history/airport/KFCI/2014/12/16/MonthlyHistory.html? req_city=NA\&req_state=NA\&req_statename=NA\&printfeature=calendar]$

Calendar Legend



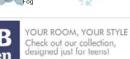














Daily Weather History & Observations

2014	Temp	. (°F)		Dew F	Point (°	'F)	Humi	dity (%)	Sea Le	vel Press.	(in)	Visibi	lity (mi)	Wind	(mph)		Precip. (in)
Dec	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum
1 [/history/airport/KFCI/2014/12/1/DailyHistory.html]	73	62	48	48	42	36	62	50	38	30.42	30.27	30.20	10	10	10	14	8	25	0.03
2 [/history/airport/KFCI/2014/12/2/DailyHistory.html]	48	44	39	32	28	27	65	63	49	30.54	30.44	30.35	10	4	2	13	6	18	0.00
3 [/history/airport/KFCI/2014/12/3/DailyHistory.html]	57	48	39	45	36	28	71	66	62	30.35	30.24	30.11	10	7	2	13	3	18	0.00
4 [/history/airport/KFCI/2014/12/4/DailyHistory.html]	48	44	39	36	23	18	62	45	37	30.48	30.42	30.30	10	10	10	8	4	-	0.01
5 [/history/airport/KFCI/2014/12/5/DailyHistory.html]	48	44	39	34	28	27	66	55	43	30.52	30.46	30.36	10	10	10	6	2	-	0.01
6 [/history/airport/KFCI/2014/12/6/DailyHistory.html]	55	50	44	45	39	32	72	65	54	30.33	30.15	30.03	10	7	2	17	2	26	0.30
7 [/history/airport/KFCI/2014/12/7/DailyHistory.html]	48	42	37	30	20	12	57	41	30	30.51	30.40	30.22	10	10	10	18	12	26	0.00
8 [/history/airport/KFCI/2014/12/8/DailyHistory.html]	39	37	35	25	19	12	65	48	38	30.52	30.40	30.17	10	9	2	14	9	18	0.00
9 [/history/airport/KFCI/2014/12/9/DailyHistory.html]	44	38	33	34	27	21	66	63	57	30.16	29.96	29.87	10	7	2	12	9	18	0.08
10 [/history/airport/KFCI/2014/12/10/DailyHistory.html]	51	42	32	28	23	16	64	49	39	29.91	29.89	29.86	10	10	10	18	8	24	0.00
11 [/history/airport/KFCI/2014/12/11/DailyHistory.html]	46	36	26	16	13	9	55	39	29	30.06	29.97	29.90	10	10	10	13	6	20	0.00
12 [/history/airport/KFCI/2014/12/12/DailyHistory.html]	55	42	28	18	14	9	51	35	22	30.15	30.10	30.05	10	10	10	18	5	23	0.00
13 [/history/airport/KFCI/2014/12/13/DailyHistory.html]	53	38	24	23	17	10	59	46	28	30.14	30.07	30.00	10	10	10	8	1	-	0.00
14 [/history/airport/KFCI/2014/12/14/DailyHistory.html]	59	42	24	30	21	12	60	50	34	30.07	30.02	29.97	10	10	10	6	1	-	0.00
15 [/history/airport/KFCI/2014/12/15/DailyHistory.html]	57	42	28	34	26	16	65	56	41	30.15	30.10	30.05	10	10	9	6	1	-	0.00
16 [/history/airport/KFCI/2014/12/16/DailyHistory.html]	48	42	35	37	34	25	71	66	61	30.08	29.96	29.89	10	4	2	8	5	-	0.35

2014	Temp	. (°F)		Dew l	Point (°	F)	Humi	dity (%)	Sea Lev	el Press.	(in)	Visibi	lity (mi)	Wind	(mph)		Precip. (in)
17 [/history/airport/KFCI/2014/12/17/DailyHistory.html]	57	47	37	36	29	21	70	55	36	30.08	30.00	29.93	10	8	1	14	4	20	0.00
18 [/history/airport/KFCI/2014/12/18/DailyHistory.html]	46	36	26	21	17	14	64	47	31	30.19	30.13	30.09	10	10	10	9	3	-	0.00
19 [/history/airport/KFCI/2014/12/19/DailyHistory.html]	46	36	26	21	17	12	55	47	37	30.27	30.18	30.12	10	10	10	8	2	-	0.00
20 [/history/airport/KFCI/2014/12/20/DailyHistory.html]	37	32	26	18	15	12	55	47	41	30.33	30.29	30.26	10	10	10	7	1	-	0.00
21 [/history/airport/KFCI/2014/12/21/DailyHistory.html]	44	37	30	21	19	16	60	47	39	30.37	30.31	30.27	10	10	10	6	1	-	0.00
22 [/history/airport/KFCI/2014/12/22/DailyHistory.html]	37	36	35	27	24	19	65	62	48	30.30	30.16	30.07	10	3	1	10	6	-	0.16
23 [/history/airport/KFCI/2014/12/23/DailyHistory.html]	46	40	35	36	30	25	71	66	62	30.10	30.05	30.02	10	3	0	8	2	-	0.29
24 [/history/airport/KFCI/2014/12/24/DailyHistory.html]	64	54	44	55	43	34	77	70	66	30.00	29.76	29.62	10	4	0	13	3	18	0.74
25 [/history/airport/KFCI/2014/12/25/DailyHistory.html]	64	48	33	54	33	19	72	52	36	30.25	29.97	29.64	10	10	10	17	8	23	0.02
26 [/history/airport/KFCI/2014/12/26/DailyHistory.html]	57	42	26	28	23	16	64	53	33	30.35	30.30	30.25	10	10	10	7	1	-	0.00
27 [/history/airport/KFCI/2014/12/27/DailyHistory.html]	62	45	28	34	27	16	65	49	34	30.31	30.24	30.12	10	10	10	9	2	-	0.00
28 [/history/airport/KFCI/2014/12/28/DailyHistory.html]	60	56	50	43	38	32	71	54	44	30.10	30.03	29.96	10	10	10	13	6	18	0.00
29 [/history/airport/KFCI/2014/12/29/DailyHistory.html]	51	44	37	41	30	27	67	61	53	30.26	30.18	30.07	10	10	5	10	7	-	0.42
30 [/history/airport/KFCI/2014/12/30/DailyHistory.html]	42	33	23	27	19	10	65	51	34	30.44	30.36	30.25	10	10	10	13	4	16	0.00
31 [/history/airport/KFCI/2014/12/31/DailyHistory.html]	42	32	21	16	11	9	63	46	27	30.45	30.38	30.31	10	10	10	9	2	-	0.00

Comma Delimited File [/history/airport/KFCI/2014/12/16/MonthlyHistory.html?req_city=NA&req_state=NA&req_statename=NA&format=1]

COMMONWEALTH OF VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

VA 23237

FACILITY LOCATION 7511 Airfield Dr

Richmond

VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

PERMIT NUMBER	OUTFALL NO.
VAR051129	002

Check		M	ONITO	RING	PERIO	D	
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY
	2014	July	1		2014	December	31
1	2015	January	1		2015	June	30
	2015	July	1		2015	December	31
	2016	January	1		2016	June	30
	2016	July	1		2016	December	31
	2017	January	1		2017	June	30
	2017	July	1		2017	December	31
	2018	January	1		2018	June	30
	2018	July	1		2018	December	31
	2019	January	1		2019	June	30

PARAMETER			NO.	SAMPLE			
	1"	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	TYPE
004 TSS	REPORTED	*****	******	24.5	MG/L	0	GRAB
	3ENCHMARK CONC	******	******	100	MG/L		GRAB
257 PETROLEUM	REPORTED	******	******	<0.6	MG/L	0	GRAB
HYDROCARBONS, TOTAL R	BENCHMARK CONC	*******	******	15	MG/L		GRAB

STORM						
DATE	YR	MC		DAY		
1	15	06	3	25		
DURATION	HRS		MIN			
	1		0			
RAINFALL TOTAL (IN.)	C).93	3			
PRECEDING	DAY	s	ŀ	IRS		
EVENT	4		1	3		

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

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 GATHER AND EVALUATE 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,

PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		DATE		
Dr. Shery D. Bailey	SIGNATURE	20/5 YEAR	7 MO.	8 DAY
	PIONATONE	,		

This report is required by your VPDES permit and by law. (See, e.g., the Code of Virginia of 1950 §62.1-44.5 and 9 VAC 25-31-50.) Failure to report or failure to report truthfully can result in civil penalties of \$32,500 per violation, per day and felony prosecutions which can carry a 15 year term.

DISCHARGE MONITORING REPORT (DMR) - GENERAL INSTRUCTIONS

- 1. Complete this form in permanent ink or indelible pencil. The use of 'correction fluids/tape' is not allowed.
- 2. Enter a check mark or otherwise indicate the appropriate "Monitoring Period" when sampling occurred.
- 3. For those parameters where the "REQUIREMENT" spaces have a reporting requirement or limitation, provide data in the "REPORTED" spaces in accordance with your permit.
- 4. Enter maximum concentration and units in the "REPORTED" spaces in the appropriate column under the header of "Concentration".
- 5. For all parameters enter the number of samples which do not comply with the minimum or maximum permit requirement in the "REPORTED" space in the column marked "No. Ex." (Number of Exceedances). If none, enter "0". Do NOT include monthly average violations in this field.
- 6. You are required to sample (at a minimum) according to the Sample Frequencies and Sample Types specified in your permit. If you sample more often than the Sample Frequency specified in your permit then all data must be used when completing the DMR.
- 7. Enter the actual type of sample (Grab, 8HC, 24HC, etc) collected for each parameter in the "REPORTED" space in the column marked "Sample Type".
- 8. Storm Event Information (i.e., a "measurable storm event" is a storm event that results in an actual discharge from the site, providing the interval from the preceding measurable Storm event is at least 72 hours):
 - a. Enter the date (Year/Month/Day) of the "measurable storm event"
 - b. Enter the duration (hours and minutes) of "measurable storm event"
 - c. Enter the rainfall total (inches) of the "measurable storm event"
 - d. Enter the number of days and hours from the preceding "measurable storm event"
- 9. The principal executive officer then reviews the form and must sign in the space provided and provide a telephone number where he/she can be reached. Enter the date (Year/Month/Day) the DMR was signed. Every page of the DMR must have an original signature and date.
- 10. Send the completed form(s) with original signatures to your Department of Environmental Quality Regional Office by the 10th of month following the monitoring period.
- 11. You are required to retain a copy of the report for your records.

COMMONWEALTH OF VIRGINIA **DEPARTMENT OF ENVIRONMENTAL QUALITY**

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

January

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

VA 23237

FACILITY LOCATION 7511 Airfield Dr

Richmond

VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

VAR051129	
PERMIT NUMBER	

Check	MONITORING PERIOD						
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY
	2014	July	1		2014	December	31
V	2015	January	1		2015	June	30
	2015	July	1		2015	December	31
	2016	January	1		2016	June	30
	2016	July	1		2016	December	31
	2017	January	1		2017	June	30
	2017	July	1		2017	December	31
	2018	January	1		2018	June	30
	2018	July	1		2018	December	31

2019

003 **OUTFALL NO.**

STORM				
DATE	YR	мо	DAY	
	15	06	25	
DURATION	HRS	N	MIN	
	1		0	
RAINFALL TOTAL (IN.)	0.93			
PRECEDING	DAYS HR		HRS	
EVENT	4		13	

30

June

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

PARAMETER		CONCENTRATION					SAMPLE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	TYPE
004 TSS	REPORTED	*****	******	11.4	MG/L	0	GRAB
	3ENCHMARK CONC	*****	******	100	MG/L		GRAB
257 PETROLEUM	REPORTED	*****	******	<0.6	MG/L	0	GRAB
HYDROCARBONS, TOTAL F	BENCHMARK CONC	******	******	15	MG/L		GRAB

Comments:

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 GATHER AND EVALUATE 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,

PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		DATE			
Dr. Sheryl D. Bailey	SIGNATURE	2015 YEAR	7 MO.	8 DAY	

This report is required by your VPDES permit and by law. (See, e.g., the Code of Virginia of 1950 §62.1-44.5 and 9 VAC 25-31-50.) Failure to report or failure to report truthfully can result in civil penalties of \$32,500 per violation, per day and felony prosecutions which can carry a 15 year term.

DISCHARGE MONITORING REPORT (DMR) - GENERAL INSTRUCTIONS

- 1. Complete this form in permanent ink or indelible pencil. The use of 'correction fluids/tape' is not allowed.
- 2. Enter a check mark or otherwise indicate the appropriate "Monitoring Period" when sampling occurred.
- 3. For those parameters where the "REQUIREMENT" spaces have a reporting requirement or limitation, provide data in the "REPORTED" spaces in accordance with your permit.
- 4. Enter maximum concentration and units in the "REPORTED" spaces in the appropriate column under the header of "Concentration".
- 5. For all parameters enter the number of samples which do not comply with the minimum or maximum permit requirement in the "REPORTED" space in the column marked "No. Ex." (Number of Exceedances). If none, enter "0". Do NOT include monthly average violations in this field.
- 6. You are required to sample (at a minimum) according to the Sample Frequencies and Sample Types specified in your permit. If you sample more often than the Sample Frequency specified in your permit then all data must be used when completing the DMR.
- 7. Enter the actual type of sample (Grab, 8HC, 24HC, etc) collected for each parameter in the "REPORTED" space in the column marked "Sample Type".
- 8. Storm Event Information (i.e., a "measurable storm event" is a storm event that results in an actual discharge from the site, providing the interval from the preceding measurable Storm event is at least 72 hours):
 - a. Enter the date (Year/Month/Day) of the "measurable storm event"
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 - c. Enter the rainfall total (inches) of the "measurable storm event"
 - d. Enter the number of days and hours from the preceding "measurable storm event"
- 9. The principal executive officer then reviews the form and must sign in the space provided and provide a telephone number where he/she can be reached. Enter the date (Year/Month/Day) the DMR was signed. Every page of the DMR must have an original signature and date.
- 10. Send the completed form(s) with original signatures to your Department of Environmental Quality Regional Office by the 10th of month following the monitoring period.
- 11. You are required to retain a copy of the report for your records.

COMMONWEALTH OF VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

23237 VA

FACILITY LOCATION 7511 Airfield Dr

Richmond

VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE;

804-768-7700

	_
006	_
	006

Check		MONITORING PERIOD								
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY			
	2014	July	1		2014	December	31			
1	2015	January	1		2015	June	30			
	2015	July	1		2015	December	31			
	2016	January	1		2016	June	30			
	2016	July	1		2016	December	31			
	2017	January	1		2017	June	30			
	2017	July	1		2017	December	31			
	2018	January	1		2018	June	30			
	2018	July	1		2018	December	31			
	2019	January	1		2019	June	30			

PARAMETER		CONCENTRATION					SAMPLE
	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	TYPE	
004 TSS	REPORTED ***	*****	******	3.8	MG/L	0	GRAB
	BENCHMARK CONC	******	*****	100	MG/L		GRAB
257 PETROLEUM	REPORTED	*****	******	<0.6	MG/L	0	GRAB
HYDROCARBONS, TOTAL R	BENCHMARK CONC	*****	*****	15	MG/L		GRAB

STORM EVENT INFORMATION				
DATE	YR	МО	DAY	
	15	06	25	
DURATION	HRS	N	IIN	
	1	0		
RAINFALL TOTAL (IN.)	0.93			
PRECEDING	DAYS		HRS	
EVENT	4		13	

DEPT. OF ENVIRONMENTAL QUALITY

(REGIONAL OFFICE)

23060

VA

Piedmont Regional Office

4949-A Cox Road

Glen Allen

(804)527-5020

Comments:

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PRINCIPAL EXECUTIVE	OF FIGER OR AUTHORIZED AGENT		DATE
Dr. Shery D. Bailay YPED OR PRINTED NAME	SIGNATURE S	2016 YEAR	7 MO
	1		

PRINCIPAL EXECUTIVE OFFICER OF AUTHORIZED ACENT

DATE

This report is required by your VPDES permit and by law. (See, e.g., the Code of Virginia of 1950 §62.1-44.5 and 9 VAC 25-31-50.) Failure to report or failure to report truthfully can result in civil penalties of \$32,500 per violation, per day and felony prosecutions which can carry a 15 year term.

DISCHARGE MONITORING REPORT (DMR) - GENERAL INSTRUCTIONS

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COMMONWEALTH OF VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

VA 23237

FACILITY LOCATION 7511 Airfield Dr

Richmond

VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

PERMIT NUMBER	OUTFALL NO.	
VAR051129	007	1

Check One	MONITORING PERIOD								
	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY		
	2014	July	1		2014	December	31		
✓	2015	January	1		2015	June	30		
	2015	July	1		2015	December	31		
	2016	January	1		2016	June	30		
	2016	July	1		2016	December	31		
	2017	January	1		2017	June	30		
	2017	July	1		2017	December	31		
	2018	January	1		2018	June	30		
	2018	July	1		2018	December	31		
	2019	January	1		2019	June	30		

PARAMETER		CONCENTRATION				NO.	SAMPLE TYPE
		MINIMUM AVERAGE MAXIMUM UNITS		EX.			
004 TSS	REPORTED	*****	******	7.8	MG/L	0	GRAB
	BENCHMARK CONC	******	******	100	MG/L		GRAB
257 PETROLEUM	REPORTED	*****	******	<0.6	MG/L	0	GRAB
HYDROCARBONS, TOTAL R	BENCHMARK CONC	******	******	15	MG/L		GRAB

STORM INFORM				
DATE	YR	МО	DAY	
	15	06	25	
DURATION	HRS	M	MIN	
	1	0		
RAINFALL. TOTAL (IN.)	0.93			
PRECEDING	DAY	S	HRS	
EVENT	4		13	

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA 23060

Comments:

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 GATHER AND EVALUATE 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,

PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				
aca 8	2015	7 MO.		
	SIGNATURE	acal & 2015		

This report is required by your VPDES permit and by law. (See, e.g., the Code of Virginia of 1950 §62.1-44.5 and 9 VAC 25-31-50.) Failure to report or failure to report truthfully can result in civil penalties of \$32,500 per violation, per day and felony prosecutions which can carry a 15 year term.

DISCHARGE MONITORING REPORT (DMR) - GENERAL INSTRUCTIONS

- 1. Complete this form in permanent ink or indelible pencil. The use of 'correction fluids/tape' is not allowed.
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- 11. You are required to retain a copy of the report for your records.

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

VA 23060

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

VAR051129

PERMIT NUMBER

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

VA 23237

FACILITY LOCATION

7511 Airfield Dr

Richmond

VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

						<u> </u>						
Check	MONITORING PERIOD											
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY					
	2014	July	1		2014	December	31					
1	2015	January	1		2015	June	30					
	2015	July	1		2015	December	31					
	2016	January	1		2016	June	30					
	2016	July	1		2016	December	31					
	2017	January	1		2017	June	30					
	2017	July	1		2017	December	31					
	2018	January	1		2018	June	30					
	2018	July	1		2018	December	31					
	2019	January	1		2019	June	30					

002

OUTFALL NO.

PARAMETER		CONCENTRATION					SAMPLE	
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	TYPE	
929 ChesBay TMDL TSS	REPORTED	*****	******	24.5	MG/L	0	GRAB	
	REQUIREMENT	*****	******	NL	MG/L		GRAB	
930 ChesBay TMDL	REPORTED	*****	******	0.69	MG/L	0	GRAB	
Nitrogen, Total (as N	REQUIREMENT	******	******	NL	MG/L		GRAB	
931 ChesBay TMDL Phosphorus, Total (as	REPORTED	*****	******	0.03	MG/L	0	GRAB	
	REQUIREMENT	******	******	NL	MG/L		GRAB	

STORM INFORM			
DATE	YR	МО	DAY
	15	06	25
DURATION	HRS	N	IIN
	1	()
RAINFALL TOTAL (IN.)	0	.93	
PRECEDING	DAY	'S	HRS
EVENT	4		13

Comments:

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PRINCIPAL EXECUTIVE	OFFICER OR AUTHORIZED AGENT	0	DATE	
Dr. Sheryl D. Bailey	ma. A	2015	7	8
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

This report is required by your VPDES permit and by law. (See, e.g., the Code of Virginia of 1950 §62.1-44.5 and 9 VAC 25-31-50.) Failure to report truthfully can result in civil penalties of \$32,500 per violation, per day and felony prosecutions which can carry a 15 year term.

DISCHARGE MONITORING REPORT (DMR) - GENERAL INSTRUCTIONS

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- 11. You are required to retain a copy of the report for your records.

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

23237 VA

FACILITY

7511 Airfield Dr

LOCATION Richmond VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

PERMIT NUMBER	OUTFALL NO.	+
VAR051129	003	-

Check		MONITORING PERIOD										
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY					
	2014	July	1		2014	December	31					
1	2015	January	1		2015	June	30					
	2015	July	1		2015	December	31					
	2016	January	1		2016	June	30					
	2016	July	1		2016	December	31					
	2017	January	1		2017	June	30					
	2017	July	1		2017	December	31					
	2018	January	1		2018	June	30					
	2018	July	1		2018	December	31					
	2019	January	1		2019	June	30					

PARAMETER		CONCENTRATION				NO.	SAMPLE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	TYPE
929 ChesBay TMDL TSS	REPORTED	*****	******	11.4	MG/L	0	GRAB
	REQUIREMENT	******	******	NL	MG/L		GRAB
930 ChesBay TMDL	REPORTED	******	******	0.55	MG/L	0	GRAB
Nitrogen, Total (as N	REQUIREMENT	******	*****	NL	MG/L		GRAB
931 ChesBay TMDL	REPORTED	*****	******	0.04	MG/L	0	GRAB
Phosphorus, Total (as	REQUIREMENT	******	******	NL	MG/L		GRAB

STORM			
DATE	YR	МО	DAY
	15	06	25
DURATION	HRS	N	HN
	1	()
RAINFALL TOTAL (IN.)	0	.93	
PRECEDING	DAY	S	HRS
EVENT	4		13

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road

Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

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 GATHER AND EVALUATE 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,

PRINCIPAL EXECUTIVE	OFFICER OR AUTHORIZED AGENT			DATE		
Dr. Sheryl D. Bailey	Bude	2	20/5	7	8	
YPED OR PRINTED NAME	SIGNATURE	,	YEAR	MO.	DAY	
The state of the s						1

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DISCHARGE MONITORING REPORT (DMR) - GENERAL INSTRUCTIONS

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VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

23237

FACILITY LOCATION 7511 Airfield Dr

Richmond

VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

VAR051129	006		
PERMIT NUMBER	OUTFALL NO.		

Check		MONITORING PERIOD										
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY					
	2014	July	1		2014	December	31					
1	2015	January	1		2015	June	30					
	2015	July	1		2015	December	31					
	2016	January	1		2016	June	30					
	2016	July	1		2016	December	31					
	2017	January	1		2017	June	30					
	2017	July	1		2017	December	31					
	2018	January	1		2018	June	30					
	2018	July	1		2018	December	31					
	2019	January	1		2019	June	30					

PARAMETER		CONCENTRATION					SAMPLE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	TYPE
929 ChesBay TMDL TSS	REPORTED	*****	******	3.8	MG/L	0	GRAB
	REQUIREMENT	******	******	NL	MG/L		GRAB
930 ChesBay TMDL	REPORTED	******	******	<0.50	MG/L	0	GRAB
Nitrogen, Total (as N	REQUIREMENT	******	******	NL	MG/L		GRAB
931 ChesBay TMDL	REPORTED	******	******	0.04	MG/L	0	GRAB
Phosphorus, Total (as	REQUIREMENT	******	******	NL	MG/L		GRAB

STORM EVENT INFORMATION								
DATE	YR MO DA							
	15	06	3	25				
DURATION	HRS		MIN					
	1							
RAINFALL TOTAL (IN.)	0.93							
PRECEDING	DAY	S	HRS					
EVENT	4			13				

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA 23060

Comments:

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N.	Shara	AI.	Dailou
DY.	SHELL	10.	Bailey
TYPED	OR PRINT	ED NAM	E

PRINCIPAL EXECUTIVE		DATE		
1 D. Bailey	mal &	2015	7	8
ED NAME	SIGNATURE	YEAR	MO.	DAY

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VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Piedmont Regional Office 4949-A Cox Road

Glen Allen

(804)527-5020

VA 23060

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

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Richmond

VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7700

VAR051129	007
PERMIT NUMBER	OUTFALL NO.

Check	MONITORING PERIOD										
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY				
	2014	July	1		2014	December	31				
1	2015	January	1		2015	June	30				
	2015	July	1		2015	December	31				
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	2017	July	1		2017	December	31				
	2018	January	1		2018	June	30				
	2018	July	1		2018	December	31				
	2019	January	1		2019	June	30				

PARAMETER			CONCENTRATION					
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	TYPE	
929 ChesBay TMDL TSS	REPORTED	******	******	7.8	MG/L	0	GRAB	
	REQUIREMENT	******	******	NL	MG/L		GRAB	
930 ChesBay TMDL	REPORTED	******	******	1.82	MG/L	0	GRAB	
Nitrogen, Total (as N	REQUIREMENT	******	******	NL	MG/L		GRAB	
931 ChesBay TMDL	REPORTED	******	******	0.05	MG/L	0	GRAB	
Phosphorus, Total (as	REQUIREMENT	******	******	NL	MG/L		GRAB	

STORM EVENT INFORMATION								
DATE	YR	DAY						
	15	06	25					
DURATION	HRS		MIN					
	1		0					
RAINFALL TOTAL (IN.)	0.93							
PRECEDING	DAY	'S	HRS					
EVENT	4		13					

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TYPED OR PRINTED NAME SIGNATURE

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Certificate of Analysis

Final Report

Laboratory Order ID 15F0849

Client Name: EEE Consulting (Mechanicsville)

8525 Bell Creek Road

Mechanicsville, VA 23116

Submitted To:

Michael Easter

Client Site I.D.: Chesterfield Airport SW

Date Received:

June 29, 2015 14:30

Date Issued:

July 7, 2015 16:33

Project Number:

14-209.3

Purchase Order:

Enclosed are the results of analyses for samples received by the laboratory on 06/29/2015 14:30. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Ted Soyars

Laboratory Manager

8000yars

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized representative of Air Water & Soil Laboratories, Inc.









Certificate of Analysis

Final Report

Laboratory Order ID 15F0849

Client Name:

EEE Consulting (Mechanicsville)

8525 Bell Creek Road

Mechanicsville VA, 23116

Chesterfield Airport SW

Submitted To: Client Site I.D.: Michael Easter

Project Number:

Purchase Order:

Date Received:

Date Issued:

June 29, 2015 14:30

July 7, 2015 16:33

14-209.3

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID Ma	trix Date Sampled	Date Received
2	15F0849-01 Waste	Water 06/25/2015 19:40	06/29/2015 14:30
3	15F0849-02 Waste	Water 06/25/2015 19:35	06/29/2015 14:30
6	15F0849-03 Waste	Water 06/25/2015 19:25	06/29/2015 14:30
7	15F0849-04 Waste	Water 06/25/2015 19:30	06/29/2015 14:30
Trip Blank	15F0849-05 Waste	Water 05/21/2015 08:30	06/29/2015 14:30



Certificate of Analysis

Final Report

Laboratory Order ID 15F0849

Client Name:

EEE Consulting (Mechanicsville)

2540D-2011

8525 Bell Creek Road

Mechanicsville VA, 23116

Submitted To: Client Site I.D.: Michael Easter

Chesterfield Airport SW

Date Received:

June 29, 2015 14:30

Date Issued:

July 7, 2015 16:33

Project Number: Purchase Order: 14-209.3

Sample Prep

Analytical Results

Laboratory Sample ID:

15F0849-01

Analysis

Date/Time Sampled:

Sample I.D.

06/25/2015 19:40

Reporting Method Result Qual Limit Samp ID D.F.

Date/Time Date/Time Parameter Analyst Volatile Petroleum Hydrocarbons by GC TPH-Volatiles (GRO) SW8015C <0.10 mg/L 🛩 0.10 07/02/15 16:24 07/02/15 16:24 CL Semivolatile Petroleum Hydrocarbons by GC <0.50 mg/L 🕶 TPH-Semi-Volatiles (DRO) SW8015C 0.50 07/02/15 10:37 07/02/15 14:59 JHV SW8015C Surr: Pentacosane 01 66.9 % 40-160 07/02/15 10:37 07/02/15 14:59 JHV Wet Chemistry Analysis Nitrate+Nitrite as N 01 SM22 <0.10 mg/L 0.10 07/06/15 09:00 07/06/15 12:44 RAC 4500-NO3F-2011 0.69 mg/L -0.50 07/06/15 09:00 07/06/15 12:44 Nitrogen, Total 01 Calc. LAO 01 SM9215B 0.03 mg/L -0.02 06/29/15 11:45 06/29/15 11:45 Phosphorus, Total LAO 01 EPA351.2 R2.0 0.61 mg/L CI 0.50 07/01/15 13:36 07/01/15 13:36 LAO TKN as N 1 TSS 01 **SM22** 24.5 mg/L 🗸 1.0 06/30/15 15:15 06/30/15 15:15 DLF



Certificate of Analysis

Final Report

Laboratory Order ID 15F0849

Client Name:

EEE Consulting (Mechanicsville)

ille)

June 29, 2015 14:30

8525 Bell Creek Road Mechanicsville VA, 23116 Date Received:

Date Issued:

July 7, 2015 16:33

Submitted To:

Michael Easter

Project Number:

14-209.3

Client Site I.D.:

Chesterfield Airport SW

Purchase Order:

Analytical Resu	lts —								
Sample I.D. 3					Laborate	ory S	ample ID:	15F0849-02	
Date/Time Sampled: 0	6/25/2015 1	9:35			Reporting		Sample Prep	Analysis	
Parameter	Samp ID	Method	Result	Qual	Limit	D.F.	Date/Time	Date/Time	Analyst
Volatile Petroleum Hydrocai	rbons by GC								
TPH-Volatiles (GRO)	02	SW8015C	<0.10 mg/L 🛩		0.10	1	07/02/15 17:10	07/02/15 17:10	CL
Semivolatile Petroleum Hyd	rocarbons by	GC							
TPH-Semi-Volatiles (DRO)	02	SW8015C	<0.50 mg/L 👅		0.50	1	07/02/15 10:37	07/02/15 15:25	JHV
Surr: Pentacosane	02	SW8015C	73.1 %		40-160		07/02/15 10:37	07/02/15 15:25	JHV
Wet Chemistry Analysis									
Nitrate+Nitrite as N	02	SM22 4500-NO3F-2011	0.11 mg/L		0.10	1	07/06/15 09:00	07/06/15 12:47	RAC
Nitrogen, Total	02	Calc.	0.55 mg/L 🛩		0.50	1	07/06/15 09:00	07/06/15 12:47	LAO
Phosphorus, Total	02	SM9215B	0.04 mg/L		0.02	1	06/29/15 11:45	06/29/15 11:45	LAO
TKN as N	02	EPA351.2 R2.0	<0.50 mg/L		0.50	1	07/01/15 13:38	07/01/15 13:38	LAO
TSS	02	SM22 2540D-2011	11.4 mg/L 🛩		1.0	1	06/30/15 15:15	06/30/15 15:15	DLF



Certificate of Analysis

Final Report

Laboratory Order ID 15F0849

Client Name:

EEE Consulting (Mechanicsville)

Date Received:

June 29, 2015 14:30

8525 Bell Creek Road

Mechanicsville VA, 23116

Date Issued:

July 7, 2015 16:33

Submitted To:

Michael Easter

Project Number:

14-209.3

Client Site I.D.:

Sample I.D. 6

-Analytical Results

Chesterfield Airport SW

Purchase Order:

Laboratory Sample ID: 15F0849-03

Sample I.D.						, -			
Date/Time Sampled: Parameter	06/25/2015 1 Samp ID		Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Petroleum Hydroca	arbons by GC								
TPH-Volatiles (GRO)	03	SW8015C	<0.10 mg/L 🛩		0.10	1	07/02/15 17:33	07/02/15 17:33	CL
Semivolatile Petroleum Hyd	drocarbons by	GC							
TPH-Semi-Volatiles (DRO)	03	SW8015C	<0.50 mg/L		0.50	1	07/02/15 10:37	07/02/15 15:51	JHV
Surr: Pentacosane	03	SW8015C	86.7 %		40-160		07/02/15 10:37	07/02/15 15:51	JHV
Wet Chemistry Analysis								-	
Nitrate+Nitrite as N	03	SM22 4500-NO3F-2011	<0.10 mg/L -		0.10	1	07/06/15 09:00	07/06/15 12:50	RAC
Nitrogen, Total	03	Calc.	<0.50 mg/L		0.50	1	07/06/15 11:56	07/06/15 12:50	LBH
Phosphorus, Total	03	SM9215B	0.04 mg/L 🛩		0.02	1	06/29/15 11:45	06/29/15 11:45	LAO
TKN as N	03	EPA351.2 R2.0	<0.50 mg/L		0.50	1	07/06/15 11:56	07/06/15 11:56	LBH
TSS	03	SM22 2540D-2011	3.8 mg/L 🛩		1.0	1	06/30/15 15:15	06/30/15 15:15	DLF



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Final Report

Laboratory Order ID 15F0849

Client Name:

EEE Consulting (Mechanicsville)

8525 Bell Creek Road

Mechanicsville VA, 23116

Submitted To:

Michael Easter

Client Site I.D.: Chesterfield Airport SW Date Received:

June 29, 2015 14:30

Date Issued:

July 7, 2015 16:33

Project Number: Purchase Order: 14-209.3

-Analytical Results 7~

Laboratory Sample ID:

15F0849-04

Date/Time Sampled:

Sample I.D.

Parameter

06/25/2015 19:30

Samp ID Method Result Reporting Limit D.F.

Qual

Sample Prep Date/Time

Analysis

Date/Time Analyst

Volatile Petroleum	Hydrocarbons	by GC

TPH-Volatiles (GRO)	04	SW8015C	<0.10 mg/L	0.10	1	07/02/15 17:56	07/02/15 17:56	CL
Semivolatile Petroleum Hydr	ocarbons	by GC						
TPH-Semi-Volatiles (DRO)	04	SW8015C	<0.50 mg/L -	0.50	1	07/02/15 10:37	07/02/15 16:18	JHV
Surr: Pentacosane	04	SW8015C	77.9 %	40-160		07/02/15 10:37	07/02/15 16:18	JHV

Wet Chemistry Analysis								
Nitrate+Nitrite as N	04	SM22 4500-NO3F-2011	1.14 mg/L	0.10	1	07/06/15 09:00	07/06/15 12:53	RAC
Nitrogen, Total	04	Calc.	1.82 mg/L -	0.50	1	07/06/15 11:58	07/06/15 12:53	LBH
Phosphorus, Total	04	SM9215B	0.05 mg/L -	0.02	1	06/29/15 11:45	06/29/15 11:45	LAO
TKN as N	04	EPA351.2 R2.0	0.67 mg/L	0.50	1	07/06/15 11:58	07/06/15 11:58	LBH
TSS	04	SM22 2540D-2011	7.8 mg/L 🛩	1.0	1	06/30/15 15:15	06/30/15 15:15	DLF

Sample I.D. Trip Blan	nk				Laborat	ory Sa	ample ID:	15F0849-05	
Date/Time Sampled: Parameter	05/21/2015 0 Samp ID		Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Petroleum Hydro	carbons by GC								
		SW8015C	<0.10 mg/L		0.10		07/02/15 12:34	07/02/15 12:34	CL



Certificate of Analysis

Final Report

Laboratory Order ID 15F0849

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8525 Bell Creek Road

Mechanicsville VA, 23116

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Chesterfield Airport SW

Date Received:

June 29, 2015 14:30

Date Issued:

July 7, 2015 16:33

Project Number: Purchase Order:

14-209.3

Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Ana	alysis		Preparation Method:	No Prep Wet Chem	
15F0849-01	25.0 mL / 25.0 mL	SM9215B	BYF0714	SYF0800	AA50091
15F0849-02	25.0 mL / 25.0 mL	SM9215B	BYF0714	SYF0800	AA50091
15F0849-03	25.0 mL / 25.0 mL	SM9215B	BYF0714	SYF0800	AA50091
15F0849-04	25.0 mL / 25.0 mL	SM9215B	BYF0714	SYF0800	AA50091
15F0849-01	400 mL / 400 mL	SM22 2540D-2011	BYF0748	SYF0834	
15F0849-02	500 mL / 500 mL	SM22 2540D-2011	BYF0748	SYF0834	
15F0849-03	1000 mL / 1000 mL	SM22 2540D-2011	BYF0748	SYF0834	
15F0849-04	988 mL / 988 mL	SM22 2540D-2011	BYF0748	SYF0834	
15F0849-01	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BYG0016	SYG0023	AG50019
15F0849-02	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BYG0016	SYG0023	AG50019
15F0849-03	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BYG0016	SYG0023	AG50019
15F0849-04	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BYG0016	SYG0023	AG50019
15F0849-01	25.0 mL / 25.0 mL	EPA351.2 R2.0	BYG0023	SYG0036	AG50007
15F0849-02	25.0 mL / 25.0 mL	EPA351.2 R2.0	BYG0023	SYG0036	AG50007
15F0849-03	25.0 mL / 25.0 mL	EPA351.2 R2.0	BYG0057	SYG0098	AG50018
15F0849-04	25.0 mL / 25.0 mL	EPA351.2 R2.0	BYG0057	SYG0098	AG50018
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Semivolatile Petro	leum Hydrocarbons by GC		Preparation Method:	SW3510C	
15F0849-01	1000 mL / 1.00 mL	SW8015C	BYG0030	SYG0089	AA50037
15F0849-02	1000 mL / 1.00 mL	SW8015C	BYG0030	SYG0089	AA50037
15F0849-03	1000 mL / 1.00 mL	SW8015C	BYG0030	SYG0089	AA50037
15F0849-04	990 mL / 1.00 mL	SW8015C	BYG0030	SYG0089	AA50037
Sample iD	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Petroleum	Hydrocarbons by GC		Preparation Method:	SW5030B	
15F0849-01	5.00 mL / 5.00 mL	SW8015C	BYG0040	SYG0072	AF50068
15F0849-02	5.00 mL / 5.00 mL	SW8015C	BYG0040	SYG0072	AF50068
15F0849-03	5.00 mL / 5.00 mL	SW8015C	BYG0040	SYG0072	AF50068
15F0849-04	5.00 mL / 5.00 mL	SW8015C	BYG0040	SYG0072	AF50068



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Final Report

Laboratory Order ID 15F0849

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EEE Consulting (Mechanicsville)

8525 Bell Creek Road

Mechanicsville VA, 23116

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Michael Easter

Chesterfield Airport SW

Date Received:

June 29, 2015 14:30

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July 7, 2015 16:33

Project Number:

14-209.3

Purchase Order:

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Petroleum	Hydrocarbons by GC		Preparation Method:	SW5030B	
15F0849-05	5.00 mL / 5.00 mL	SW8015C	BYG0040	SYG0072	AF50068



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Mechanicsville VA, 23116

Submitted To:

Michael Easter

Project Number:

14-209.3

Client Site I.D.:

Chesterfield Airport SW

Purchase Order:

Volatile Petroleum Hydrocarbons by GC - Quality Control

Amalyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYG0040 - SW5030B											
Blank (BYG0040-BLK1)					Prepared	& Analyzed	1: 07/02/2	015			
TPH-Volatiles (GRO)		<0.10 mg/L	0.10	mg/L							
LCS (BYG0040-BS1)					Prepared	& Analyzed	i: 07/02/2	015			
TPH-Volatiles (GRO)	_	1.02 mg/L	0.10	mg/L	1.00		102	70-130			
LCS Dup (BYG0040-BSD1)					Prepared	& Analyzed	d: 07/02/2	015			
TPH-Volatiles (GRO)	-	1.00 mg/L	0.10	mg/L	1.00	-	100	70-130	1.50	20	
Duplicate (BYG0040-DUP1)		Sou	rce: 15F0849	9-01	Prepared	& Analyzed	1: 07/02/2	015			
TPH-Volatiles (GRO)	/	<0.10 mg/L	0.10	mg/L	-	<0.10 mg/L			NA	20	
Matrix Spike (BYG0040-MS1)		Sou	rce: 15G000	3-08	Prepared	& Analyze	d: 07/02/2	015			
TPH-Volatiles (GRO)	_	1.05 mg/L	0.10	mg/L	_ 1.00	<0.10 mg/L	105	70-130			
Matrix Spike Dup (BYG0040-MSD1)		Sou	rce: 15G000	3-08	Prepared	& Analyze	d: 07/02/2	015			
TPH-Volatiles (GRO)	-	1.04 mg/L	0.10	mg/L	_ 1.00	<0.10 mg/L	104	70-130	0.995	20	



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Final Report

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8525 Bell Creek Road

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July 7, 2015 16:33

Mechanicsville VA, 23116

Submitted To:

Michael Easter

Project Number:

14-209.3

Client Site I.D.:

Chesterfield Airport SW

Purchase Order:

Semivolatile Petroleum Hydrocarbons by GC - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYG0030 - SW3510C										
Blank (BYG0030-BLK1)				Prepared	: 07/01/201	5 Analyze	d: 07/02/2	015		
TPH-Semi-Volatiles (DRO)	< <0.50 mg/L	0.50	mg/L							
Surr. Pentacosane	0.213		mg/L	- 0.250		85.3	40-160			
LCS (BYG0030-BS1)	-			Prepared	: 07/01/201	5 Analyze	d: 07/02/2	015		
TPH-Semi-Volatiles (DRO)	~ 4.2 mg/L	0.50	mg/L	5.00		84.6	40-160			
Surr. Pentacosane	_ 0.198		mg/L	0.250		79.0	40-160			
Matrix Spike (BYG0030-MS1)	Sou	rce: 15G001	5-01	Prepared	: 07/01/201	5 Analyze	d: 07/02/2	015		
TPH-Semi-Volatiles (DRO)	←4.1 mg/L	0.50	mg/L	c 5.26	<0.50 mg/L	78.7	40-160			
Surr: Pentacosane	0.194		mg/L	0.263		73.8	40-160			
Matrix Spike Dup (BYG0030-MSD1)	Sou	rce: 15G001	5-01	Prepared	: 07/01/201	5 Analyze	d: 07/02/2	015		
TPH-Semi-Volatiles (DRO)	~ 3.9 mg/L	0.50	mg/L	75.00	<0.50 mg/L	77.5	40-160	6.63	20	
Surr. Pentacosane	0.189		/ mg/L	0.250		75.7	40-160			



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8525 Bell Creek Road Mechanicsville VA, 23116 Date Issued:

July 7, 2015 16:33

Submitted To:

Michael Easter

Project Number:

14-209.3

Client Site I.D.:

Chesterfield Airport SW

Purchase Order:

Wet Chemistry Analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYF0714 - No Prep Wet Chem										
Blank (BYF0714-BLK1)				Prepared	& Analyze	d: 06/29/2	015			
Phosphorus, Total	<0.02 mg/L	0.02	mg/L							
LCS (BYF0714-BS1)				Prepared	& Analyze	d: 06/29/2	2015			
Phosphorus, Total	0.53 mg/L	0.02	mg/L	0.500		106	80-120			
Matrix Spike (BYF0714-MS1)	Sou	rce: 15F0729	-05	Prepared	& Analyze	d: 06/29/2	015			
Phosphorus, Total	0.65 mg/L	0.02	mg/L	0.500	0.10 mg/L	110	70-130			
Matrix Spike Dup (BYF0714-MSD1)	Soul	rce: 15F0729	-05	Prepared	& Analyze	d: 06/29/2	2015			
Phosphorus, Total	0.66 mg/L	0.02	mg/L	0.500 0	0.10 mg/L	113	70-130	1.83	20	
Blank (BYF0748-BLK1)	410	4.0	/1	Prepared	& Analyze	d: 06/30/2	015			
ILIANK (BYF0748-BLK1)	<1.0 mg/L	1.0	mg/L	Prepared	& Analyze	d: 06/30/2	:015			
	•			_						
CS (BYF0748-BS1)					& Analyze					
TSS	84.0 mg/L	1.0	mg/L	100		84.0	80-120			
Duplicate (BYF0748-DUP1)	Soul	rce: 15F0848	5-01	Prepared	& Analyze	d: 06/30/2				
TSS	✓ 15.6 mg/L	1.0	mg/L	- 1	5.6 mg/L		mormis	0.00	30	
Duplicate (BYF0748-DUP2)	Sou	rce: 15F0869	-02	Prepared	& Analyze	d: 06/30/2	015 755			
rss	> 93.3 mg/L	1.0	mg/L	V 9	2.0 mg/L		755	1.40	30	
Batch BYG0016 - No Prep Wet Chem	1									
Riank (RYG0016-BLK1)				Prepared	& Analyze	d: 07/06/2	015			
Nitrate+Nitrite as N	<0.10 mg/L	0.10	mg/L							



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Michael Easter

Project Number:

14-209.3

Client Site I.D.:

Chesterfield Airport SW

Purchase Order:

Wet Chemistry Analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYG0016 - No Prep Wet Chem										
LCS (BYG0016-BS1)				Prepare	d & Analyze	d: 07/06/2	015			
Nitrate+Nitrite as N	2.63 mg/L	0.1	mg/L	2.50		105~	80-120			
Matrix Spike (BYG0016-MS1)	Soul	ce: 15F0825	5-02	Prepare	d & Analyze	d: 07/06/20	015		/	
Nitrate+Nitrite as N	5.50 mg/L	0.10	mg/L	2.50	<0.10 mg/L	218	75-125		(M /
Matrix Spike (BYG0016-MS2)	Sour	ce: 15F0827	7-01	Prepare	d & Analyze	d: 07/06/26	015			
Nitrate+Nitrite as N	3.01 mg/L	0.10	mg/L	2.50	<0.10 mg/L	119 —	75-125			_
Matrix Spike Dup (BYG0016-MSD1)	Soul	ce: 15F0825	5-02	Prepare	d & Analyze	d: 07/06/20	015			7/
Nitrate+Nitrite as N	5.33 mg/L	0.10	mg/L	2.50	<0.10 mg/L	211	75-125	3.14	20/	M
Matrix Spike Dup (BYG0016-MSD2)	Sour	ce: 15F0827	7-01	Prepare	d & Analyze	d: 07/06/20	015			/
Nitrate+Nitrite as N	2.83 mg/L	0.10	mg/L	2.50	<0.10 mg/L	112	75-125	6.16	20	que
Batch BYG0023 - No Prep Wet Chem									18-1-1-1	
Blank (BYG0023-BLK1)				Prepare	d & Analyze	d: 07/01/20	015			LUB
TKN as N	<0.50 mg/L	0.50	mg/L							
LCS (BYG0023-BS1)				Prepare	d & Analyze	d: 07/01/20	015	,		
TKN as N	10.3 mg/L	0.50	mg/L	10.0		103	90-110			
LCS Dup (BYG0023-BSD1)				Prepare	d & Analyze	d: 07/01/20	015			
TKN as N	10.2 mg/L	0.50	mg/L	10.0		102	90-110	1.41	20	
Matrix Spike (BYG0023-MS1)	Sour	ce: 15F0777	7-02	Prepare	d & Analyze	d: 07/01/20	015			
TKN as N	11.1 mg/L	0.50	mg/L	10.0	1.90 mg/L	91.7	90-110			



Certificate of Analysis

Final Report

Laboratory Order ID 15F0849

Client Name:

EEE Consulting (Mechanicsville)

8525 Bell Creek Road

Mechanicsville VA, 23116

Submitted To: Client Site I.D.: Michael Easter

Chesterfield Airport SW

Date Received:

June 29, 2015 14:30

Date Issued:

July 7, 2015 16:33

14-209.3

Project Number:

Purchase Order:

Wet Chemistry Analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYG0023 - No Prep Wet Chem			7.46							
Matrix Spike (BYG0023-MS2)	Sour	ce: 15F0825	-05	Prepare	d & Analyzed	1: 07/01/2	015			
TKN as N	11.3 mg/L	0.50	mg/L	10.0	0.76 mg/L	106 ~	90-110			
Matrix Spike Dup (BYG0023-MSD1)	Sour	ce: 15F0777	-02	Prepare	d & Analyzed	1: 07/01/20	015			
TKN as N	11.3 mg/L	0.50	mg/L	10.0	1.90 mg/L	94.4	90-110	2.41	20	
Matrix Spike Dup (BYG0023-MSD2)	Sour	ce: 15F0825	-05	Prepare	d & Analyzed	1: 07/01/20	015			
TKN as N	11.0 mg/L	0.50	mg/L	10.0	0.76 mg/L	102 _	90-110	3.16	20	
Blank (BYG0057-BLK1)				Prepare	d & Analyzed	1: 07/06/20	015			
Blank (BYG0057-BLK1)				Prepare	d & Analyzed	1: 07/06/2	015			
TKN as N	<0.50 mg/L	0.50	mg/L							
ΓKN as N LCS (BYG0057-BS1)				Prepare	d & Analyzed	1: 07/06/2	015			
TKN as N	<0.50 mg/L	0.50	mg/L							
ΓKN as N LCS (BYG0057-BS1)				Prepare		i: 07/06/20 100	90-110			
FKN as N CS (BYG0057-BS1) FKN as N CS Dup (BYG0057-BSD1)				Prepare	d & Analyzec	i: 07/06/20 100	90-110	0.746	20	
ΓΚΝ as N .C3 (BYG0057-BS1) ΓΚΝ as N	10.0 mg/L	0.50	mg/L	Prepare 10.0 Prepare 10.0	d & Analyzec	1: 07/06/20 100 1: 07/06/20 101	90-110 90-110 90-110	0.746	20	
FKN as N LGS (BYG0057-BS1) FKN as N LGS Dup (BYG0057-BSD1) FKN as N	10.0 mg/L	0.50	mg/L	Prepare 10.0 Prepare 10.0 Prepare	d & Analyzed	1: 07/06/20 100 1: 07/06/20 101	90-110 90-110 90-110	0.746	20	
FKN as N LCS (BYG0057-BS1) FKN as N LCS Dup (BYG0057-BSD1) FKN as N Matrix Spike (BYG0057-MS1)	10.0 mg/L 10.1 mg/L Sour 10.7 mg/L	0.50 0.50 ce: 15F090 \$	mg/L mg/L mg/L	Prepared 10.0 Prepared 10.0 Prepared 10.0	d & Analyzed	d: 07/06/20 100 d: 07/06/20 101 d: 07/06/20 99.0	90-110 90-110 90-110 90-110	0.746	20	
ITKN as N LCS (BYG0057-BS1) ITKN as N LCS Dup (BYG0057-BSD1) ITKN as N Matrix Spike (BYG0057-MS1) ITKN as N	10.0 mg/L 10.1 mg/L Sour 10.7 mg/L	0.50 0.50 ce: 15F090 \$ 0.50	mg/L mg/L mg/L	Prepared 10.0 Prepared 10.0 Prepared 10.0 Prepared	d & Analyzed d & Analyzed d & Analyzed 0.80 mg/L	d: 07/06/20 100 d: 07/06/20 101 d: 07/06/20 99.0	90-110 90-110 90-110 90-110	0.746	20	
FKN as N LCS (BYG0057-BS1) FKN as N LCS Dup (BYG0057-BSD1) FKN as N Matrix Spike (BYG0057-MS1) FKN as N Matrix Spike (BYG0057-MS2)	10.0 mg/L 10.1 mg/L Sour 10.7 mg/L Sour 10.3 mg/L	0.50 0.50 ce: 15F090 \$ 0.50 ce: 15F090 \$	mg/L mg/L 0-01 mg/L 0-05 mg/L	Prepared 10.0 Prepared 10.0 Prepared 10.0 Prepared 10.0 Prepared 10.0	d & Analyzed d & Analyzed d & Analyzed 0.80 mg/L d & Analyzed	d: 07/06/2(100 d: 07/06/2(101 d: 07/06/2(99.0 d: 07/06/2(103	90-110 90-110 90-110 90-110 90-110 90-110	0.746	20	



Certificate of Analysis

Final Report

Laboratory Order ID 15F0849

Client Name:

EEE Consulting (Mechanicsville)

Date Received:

June 29, 2015 14:30

8525 Bell Creek Road Mechanicsville VA, 23116 Date Issued:

July 7, 2015 16:33

Submitted To:

Michael Easter

Project Number:

14-209.3

Client Site I.D.:

Chesterfield Airport SW

Purchase Order:

Wet Chemistry Analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYG0057 - No Prep Wet Chem)									
Matrix Spike Dup (BYG0057-MSD2)	Sou	rce: 15F0909	-05	Prepared	& Analyzed	1: 07/06/2	015			
TKN as N	/ 10.5 mg/L	0.50	mg/L	10.0	<0.50 mg/L	105	90-110	2.30	20	



Certificate of Analysis

Final Report

Laboratory Order ID 15F0849

Client Name:

EEE Consulting (Mechanicsville)

8525 Bell Creek Road

Mechanicsville VA, 23116

Submitted To: Client Site I.D.: Michael Easter

Wildings, Edotor

Chesterfield Airport SW

Date Received:

Project Number:

Purchase Order:

June 29, 2015 14:30

Date Issued:

July 7, 2015 16:33

14-209.3

Certified Analyses included in this Report

Analyte		Certifications	
EPA351.2 R2.0 in Non-Potable Water			
TKN as N		VELAP,NC	
SM22 2540D-2011 in Non-Potable Water			
TSS		VELAP,NC	
SM22 4500-NO3F-2011 in Non-Potable Water			
Nitrate+Nitrite as N		VELAP	
SM9215B in Non-Potable Water			
Phosphorus, Total		VELAP,NC	
SW8015C in Non-Potable Water			
TPH-Semi-Volatiles (DRO)		VELAP,NC,WVDEP	
TPH-Volatiles (GRO)		VELAP,NC,WVDEP	
Code	Description	Lab Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2015
NC	North Carolina DENR	495	12/31/2015
PADEP	NELAC-Pennsylvania	001	10/31/2015
VELAP	NELAC-Virginia Certificate #7902	460021	06/15/2016
WVDEP	West Virginia DEP	350	11/30/2015



Certificate of Analysis

Final Report

Laboratory Order ID 15F0849

Client Name: EEE Consulting (Mechanicsville)

8525 Bell Creek Road

Mechanicsville VA, 23116

Submitted To: Michael Easter

Client Site I.D.: Chesterfield Airport SW

Date Received:

June 29, 2015 14:30

Date Issued: July 7

July 7, 2015 16:33

Project Number: 14-209.3 Purchase Order:

Summary of Data Qualifiers

Cl Residual Chlorine or other oxidizing agent was detected in the container used to analyze this sample.

M Matrix spike recovery is outside established acceptance limits

RPD Relative Percent Difference

Qual Qualifers

-RE Denotes sample was re-analyzed

D.F. Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section.



1941 REYMET ROAD RICHMOND, VIRGINIA 23237 (804) 358-8295 PHONE (804)358-8297 FAX

Chain of Custody Form #: D1331 Rev. 1.0 Effective: Feb 14, 2014

__...2 000_v 140214.xls

CHAIN OF CUSTODY PROJECT NAME/Quote #: Chesser field Airport SW INVOICE TO: COMPANY NAME: SITE NAME: Chesterfield INVOICE CONTACT: CONTACT: PROJECT NUMBER: 14-209 INVOICE ADDRESS: ADDRESS: 8523 Bell Creek INVOICE PHONE #: P.O. #: PHONE #: 804 442- 3330 EMAIL: Measter@ eee-consulting.com Pretreatment Program: FAX #: Is sample for compliance reporting? (YES) NO PWS I.D. #: Is sample from a chlorinated supply? YES (NO) Turn Around Time: 🕻 SAMPLER NAME (PRINT): Michael Faster SAMPLER SIGNATURE: Dav(s) COMMENTS Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other_ Preservative Codes: N=Nitric Acid Field Filtered (Dissolved Metals) ANALYSIS / (PRESERVATIVE) C=Hydrochtoric Acid S=Sulfuric Acid H=Sodium Hydroxide A=Ascorbic Acid Z⊐Zinc Acetate T=Sodium Thiosulfate M=Methanol Composite Start Time Number of Containers Composite Start Date Grab Date or Composite Stop Date Matrix (See Codes) Grab Time or Composite Stop 1 CLIENT SAMPLE I.D. Time Preserved Composite PLEASE NOTE PRESERVATIVE(S). Grab INTERFERENCE CHECKS or PUMP RATE (L/min) 7,40AM ۶ 7:35PM X 2) x 3) ĸ WW 7:30PM 4) trip blank ww X 5) 8:30A 6) 7) 8) 9) 10) QC Data Package RELINQUISHED RECEIVED: DATE / TIME LAB USE ONLY COOLER TEMP 3,2 6-26-1514:30 evel 1 15F0849 DATE / TIME EEE Level II **Chesterfield County Airport** Level !!! RECEIVED: DATE / TIME RELINQUISHED: DATE / TIME Recd: 06/29/2015 Due: 07/07/2015 Level IV G Page 17 of 19

Sample Condition Form#: F13/02 Rev. #: 5.0 Effective: Mar 12, 2015 Page 1 of 1



EEE 15F0849 **Chesterfield County Airport** 1941 Reymet Road • Richmond, Virginia 23237 • Tel: (804) 358-829! Recd: 06/29/2015 Due: 07/07/2015 Sample Conditions Checklist v130325002 Opened by: (Initials) Lab ID No.: Date Cooler Opened: **YES** NO N/A 1. How were samples received? Fed Ex **UPS** Courier Walk In 2. Were custody seals used? 3. If yes, are custody seals unbroken and intact at the date and time of arrival? 4 Are the custody papers filled out completely and correctly? 5. Do all bottle labels agree with custody papers? Are the samples received on ice? 6. 7. Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C) Are all samples within holding time for requested laboratory tests? 8. 9 Is a sufficient amount of sample provided to perform the tests indicated? 10 Are all samples in proper containers for the analyses requested? Are all samples appropriately preserved for the analyses requested? 11 12 Are all volatile organic containers free of headspace? 13 Are all TOX containers free of headspace? Is Trip blank provided with each VOC sample set? Circle applicable method: 14 V (Document if trip blank is not received with the sample set) EPA 8011 **EPA 504** EPA 8260 **EPA 624 RSK-175** EPA 8015 (GRO) **EPA 8021** *GRO Wisconsin DNR (water and/or methanol trip blank must be provided) **EPA 524** See preservation log for Wisconsin soil DRO. **COMMENTS** FOR LAB USE ONLY: CrVI preserved date/time: __ Analyst intials:_ Buffer Sol'n ID: _

5N NaOH ID: ___

1N NaOH ID:____

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED F1302 Sample Condition 5_0.xls



Sample Preservation Log

Sample Preservation Log Form #: F1301 Rev # 4.0 Effective: Mar 13, 2015 Page 1 of 1

Date Performed: 29 June 2015 Analyst Performing Check:

P/A = Present/Absent

	er iD		tals	Cyan	ide		Sulfic		Ammo		TK			Phos,	Tot		O3+N		DRO		(estic 8081/6	(80		SVO 8270/6	25)				
Sample ID	Container ID	pH as Receive	Final pH	pH as Received > 12 Other	Final pH (# adjust.)	Rec > 0	l as eived Other	Final pH (If adjust.)	pH as Received < 2 Other	Final pH (if adjust.)	pH as Received < 2 Other	Final pH	R < 2	pH as aceived Other	Final pH (If adjust.)	Re:	H as ceived Other	Final pH (If adjust.)	pH as Received <2 Other	Finat pH (if adjust.)	Res Res Presen	Cl es elved Absent	Res.Cl P/A (H adjust.)	Res Res	s.Cl as calved	Res.Cl P/A (If adjust.)	pH as Received	~~ % 5	pH as Received Othe	_ 0
01	A																													
01	В												1	1																
or.	A																													1
02	В												/	1		/														
03	A																													
03	В																													
03	c																													
63	D													1																
04	A																													
64	B				-									1		/														
•																														T
																														T

NaOH ID:	HCL ID:
H2SO4 ID:	HNO3 ID:

DRO-Wisconsin soil samples must be preserved with MeCI2 within 72 hours of sample collection - NOTIFY EXTRACTION DEPARTMENT.

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED F1301 Sample Preservation Log 4 0.xis

Page 19 of 19

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

VAR051129

PERMIT NUMBER

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Piedmont Regional Office

4949-A Cox Road

Glen Allen

VA 23060

(804)527-5020

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

VA 23237

7511 Airfield Dr

FACILITY LOCATION

Richmond

23237 VA

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7720

Check		MONITORING PERIOD								
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY			
	2014	July	1		2014	December	31			
	2015	January	1		2015	June	30			
X	2015	July	1		2015	December	31			
	2016	January	1		2016	June	30			
	2016	July	1		2016	December	31			
	2017	January	1		2017	June	30			
	2017	July	1		2017	December	31			
	2018	January	1		2018	June	30			
	2018	July	1		2018	December	31			
	2019	January	1		2019	June	30			

002

OUTFALL NO.

PARAMETER		CONCENTRATION					SAMPLE TYPE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	1172
004 TSS	REPORTED	*: * * * * * * * *	******	4.0	MG/L	0	GRAB
1	3ENCHMARK CONC	*****	*****	100	MG/L		GRAB
257 PETROLEUM	REPORTED	*****	*****	<0.500	MG/L	0	GRAB
HYDROCARBONS, TOTAL 1	3ENCHMARK CONC	*****	*****	15	MG/L		GRAB

STORM EVENT INFORMATION								
DATE	ÝR	MC	2	IDAY				
7 10	15	12	2	17				
DURATION	HRS		MIN					
	8		-	0				
RAINFALL TOTAL (IN.)	c	.70)					
PRECEDING	DAY	'S	Ī	HRS				
EVENT	2		1	6				

Comments:

Samples were received by laboratory outside of holding temperature. Samples were collected and taken directly to laboratory.

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 GATHER AND EVALUATE 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,

PRINCIPAL EXECUTIVE OFFI	CER OR AUTHORIZED AGENT		DATE	
Shery D. Bailey	And Z.	2016	01	, <i>57</i>
TYPED OR PRINTED NAME	SIGNÁTURE	YEAR	MO.	LYAY

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)
DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Piedmont Regional Office

4949-A Cox Road

VA 23060

Glen Allen (804)527-5020

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr

ADDITEOU

Richmond

FACILITY

7511 Airfield Dr

LOCATION

7511 Airrield D

CONTACT PERSON

Patrick Driscoll 804-768-7720

VA

23237

VA

23237

TELEPHONE

VAR051129 PERMIT NUMBER

002 OUTFALL NO.

Check		M	ONITO	RING	PERIO	D	
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY
	2014	July	1		2014	December	31
	2015	January	1		2015	June	30
X	2015	July	1		2015	December	31
	2016	January	1		2016	June	30
	2016	July	1		2016	December	31
	2017	January	1		2017	June	30
	2017	July	1		2017	December	31
	2018	January	1		2018	June	30
	2018	July	1		2018	December	31
	2019	January	1		2019	June	30

PARAMETER			CONCENTRATION				
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	TYPE
929 ChesBay TMDL TSS	REPORTED	******	******	4.0	MG/L	0	GRAB
	REQUIREMENT	******	******	NL	MG/L		GRAB
930 ChesBay TMDL	REPORTED	*****	******	<0.50	MG/L	0	GRAB
Nitrogen, Total (as N	REQUIREMENT	******	******	NL	MG/L		GRAB
931 ChesBay TMDL	REPORTED	*****	******	0.08	MG/L	0	GRAB
Phosphorus, Total (as	REQUIREMENT	******	******	NL	MG/L		GRAB

STORM				
DATE	YR	м	0	DAY
	15	1:	2	17
DURATION	ION HRS		MIN	
	8		()
RAINFALL TOTAL (IN.)	0	.70)	
PRECEDING	DAY	S	ŀ	HRS
EVENT	2		16	

Comments:

Samples were received by laboratory outside of holding temperature. Samples were collected and taken directly to laboratory.

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 GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUITY 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,

PRINCIPAL EXECUTIVE O	OFFICER OR AUTHORIZED AGENT	DAT	E
Sheryl D. Bailey	And F	2016	107
TYPED OR PRINTED NAME	SIGNATURE	YEAR MO	D. DAY

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)
DISCHARGE MONITORING REPORT (DMR)

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Piedmont Regional Office

4949-A Cox Road

(804)527-5020

Glen Allen VA

VA 23060

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

VAR051129

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

VA 23237

FACILITY LOCATION 7511 Airfield Dr

Richmond

VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE 804-768-7720

PERMIT NUMBER

003 OUTFALL NO.

Check		M	ONITO	RING	PERIO	D	
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY
	2014	July	1		2014	December	31
	2015	January	1		2015	June	30
X	2015	July	1		2015	December	31
	2016	January	1		2016	June	30
	2016	July	1		2016	December	31
	2017	January	1		2017	June	30
	2017	July	1		2017	December	31
	2018	January	1		2018	June	30
	2018	July	1		2018	December	31
	2019	January	1		2019	June	30

PARAMETER			CONCENTRATION				
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	TYPE
004 TSS	REPORTED	******	******	348	MG/L	1	GRAB
	BENCHMARK CONC	******	******	100	MG/L		GRAB
257 PETROLEUM	REPORTED	*****	******	0.612	MG/L	0	GRAB
HYDROCARBONS, TOTAL R	BENCHMARK CONC	******	******	15	MG/L		GRAB

STORM			
DATE	YR	МС	DAY
	15	12	17
DURATION	HRS		MIN
	8		0
RAINFALL TOTAL (IN.)	0	.70	
PRECEDING	DAY	'S	HRS
EVENT	2	1	16

Comments:

Samples were received by laboratory outside of holding temperature. Samples were collected and taken directly to laboratory.

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			DATE		
Shengl D. Bailey	Jud &	2016	01	07	
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY	

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)
DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

VA 23060

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr

VA 23237

FACILITY

7511 Airfield Dr

LOCATION

Richmond

Richmond

VA 23237

CONTACT PERSON

TELEPHONE

... ____.

Patrick Driscoll 804-768-7720

VAR051129	003

Check		MONITORING PERIOD									
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY				
	2014	July	1		2014	December	31				
	2015	January	1		2015	June	30				
X	2015	July	1		2015	December	31				
	2016	January	1		2016	June	30				
	2016	July	1		2016	December	31				
	2017	January	1		2017	June	30				
	2017	July	1		2017	December	31				
	2018	January	1		2018	June	30				
	2018	July	1		2018	December	31				
	2019	January	1		2019	June	30				

PARAMETER		CONCENTRATION					SAMPLE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	TYPE
929 ChesBay TMDL TSS	REPORTED	******	******	348	MG/L	0	GRAB
	REQUIREMENT	******	******	NL	MG/L		GRAB
930 ChesBay TMDL	REPORTED	******	******	3.27	MG/L	0	GRAB
Nitrogen, Total (as N	REQUIREMENT	******	******	NL	MG/L		GRAB
931 ChesBay TMDL Phosphorus, Total (as	REPORTED	******	******	0.67	MG/L	0	GRAB
	REQUIREMENT	******	******	NL	MG/L		GRAB

YR	МО	DAY	
15	12	17	
HRS	N	IIN	
8	0		
0.70			
DAY	S	HRS	
2	1	6	
	YR 15 HRS 8	15 12 HRS M 8 0 0.70 DAYS I	

Comments:

Samples were received by laboratory outside of holding temperature. Samples were collected and taken directly to laboratory.

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 GATHER AND EVALUATE 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 AMARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION,

PRINCIPAL EXECUTIVE	PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		DATE		
Shery D. Bailey	De de S	2016	01	07	
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY	

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)
DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Piedmont Regional Office

4949-A Cox Road

(804)527-5020

VA 23060

Glen Allen

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr Richmond

11

A 23237

FACILITY

7511 Airfield Dr

Richmond

LOCATION

. .

VA 23237

CONTACT PERSON

Patrick Driscoll 804-768-7720

TELEPHONE

VILLOSITES	
PERMIT NUMB	ER
Chook	144

VAR051129

006	
OUTFALL NO.	

Check	MONITORING PERIOD									
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY			
	2014	July	1		2014	December	31			
	2015	January	1		2015	June	30			
X	2015	July	1		2015	December	31			
	2016	January	1		2016	June	30			
	2016	July	1		2016	December	31			
	2017	January	1		2017	June	30			
	2017	July	1		2017	December	31			
	2018	January	1		2018	June	30			
	2018	July	1		2018	December	31			
	2019	January	1		2019	June	30			

PARAMETER	-	CONCENTRATION					SAMPLE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	TYPE
004 TSS	REPORTED	*****	*****	2.5	MG/L	0	GRAB
	BENCHMARK CONC	******	******	100	MG/L		GRAB
257 PETROLEUM HYDROCARBONS, TOTAL R	REPORTED	******	******	<0.500	MG/L	0	GRAB
	BENCHMARK CONC	******	*******	15	MG/L		GRAB

STORM EVENT INFORMATION					
DATE	YR	МО	DAY		
	15	12	17		
DURATION	HRS	MIN			
	8	0			
RAINFALL TOTAL (IN.)	0.70				
PRECEDING	DAY	'S	HRS		
EVENT	2	1	16		

Comments:

Samples were received by laboratory outside of holding temperature. Samples were collected and taken directly to laboratory.

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 GATHER AND EVALUATE 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 AMARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION,

PRINCIPAL EXECUTIVE	OFFICER OR AUTHORIZED AGENT		DATE	
Shery D. Bailey	ma de	30%	01	27
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES)
DISCHARGE MONITORING REPORT (DMR)

VAR051129

PERMIT NUMBER

Check

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

006 OUTFALL NO.

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

VA 23237

FACILITY LOCATION 7511 Airfield Dr

Richmond

VA 23237

CONTACT PERSON

Patrick Driscoll 804-768-7720

TELEPHONE

riscoll

One YEAR MONTH DAY TO 2014 July 2015 January 1 Х 1 2015 July 1 2016 January 2016 1 July 1 2017 January July 1 2017 1 2018 January 2018 July 1 2019 1 January

M	MONITORING PERIOD									
Н	DAY	TO	YEAR	MONTH	DAY					
	1		2014	December	31					
ry	1		2015	June	30					
	1		2015	December	31					
ry	1		2016	June	30					
	1		2016	December	31					
ry	1		2017	June	30					
	1		2017	December	31					
ry	1		2018	June	30					
	1		2018	December	31					
ry	1		2019	June	30					
	1		2018	December	31					

PARAMETER			CONCENTRATION				SAMPLE
3 3		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	TYPE
929 ChesBay TMDL TSS	REPORTED	******	******	2.5	MG/L	0	GRAB
	REQUIREMENT	*****	******	NL	MG/L		GRAB
930 ChesBay TMDL	REPORTED	*****	******	0.63	MG/L	0	GRAB
Nitrogen, Total (as N	REQUIREMENT	*****	*****	NL	MG/L		GRAB
931 ChesBay TMDL Phosphorus, Total (as	REPORTED	*****	******	0.08	MG/L	0	GRAB
	REQUIREMENT	*****	******	NL	MG/L		GRAB

STORM EVENT INFORMATION							
DATE	YR MO DA						
g - Re- pile	15	13	2	17			
DURATION	HRS		MIN				
	8		C)			
RAINFALL TOTAL (IN.)	0.70						
PRECEDING	DAY	s	ŀ	IRS			
EVENT	2		16				

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

Samples were received by laboratory outside of holding temperature. Samples were collected and taken directly to laboratory.

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 GATHER AND EVALUATE 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,

PRINCIPAL EXECUTIVE OFFI	1	DATE		
Shery D. Bailey	And Di	2016	01	07
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Piedmont Regional Office

4949-A Cox Road

(804)527-5020

Glen Allen

VA 23060

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

007

OUTFALL NO.

VAR051129

PERMIT NUMBER

Check

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

VA 23237

23237

FACILITY

7511 Airfield Dr

LOCATION

CONTACT PERSON

Richmond

TELEPHONE

Patrick Driscoll

804-768-7720

VA

One	YEAR	MONTH	DAY	TO
	2014	July	1	
	2015	January	1	
X	2015	July	1	
	2016	January	1	
	2016	July	1	
	2017	January	1	
	2017	July	1	
	2018	January	1	
	2018	July	1	

2019 January

M	OTINO	RING	PERIOI	D	
Ή	DAY	TO	YEAR	MONTH	DAY
	1		2014	December	31
ry	1		2015	June	30
	1		2015	December	31
ry	1		2016	June	30
	1		2016	December	31
ry	1		2017	June	30
	1		2017	December	31
ry	1		2018	June	30
	1		2018	December	31
гу	1		2019	June	30

PARAMETER			CONCENTRATION				
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	TYPE
004 TSS	REPORTED	*****	******	1.2	MG/L	0	GRAB
	BENCHMARK CONC	******	******	100	MG/L		GRAB
257 PETROLEUM	REPORTED	*****	******	<0.500	MG/L	0	GRAB
HYDROCARBONS, TOTAL F	BENCHMARK CONC	******	******	15	MG/L		GRAB

STORM INFORM				
DATE	YR MO DA			
	15	12	17	
DURATION	HRS	M	IIN	
	8		0	
RAINFALL TOTAL (IN.)	0	.70		
PRECEDING	DAY	S	HRS	
EVENT	2	1	6	

Comments:

Samples were received by laboratory outside of holding temperature. Samples were collected and taken directly to laboratory.

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			DATE	
Shingl D. Bailey	And F	2016	01	07
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

VAR051129

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Piedmont Regional Office

4949-A Cox Road

23060 VA

Glen Allen (804)527-5020

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

VA 23237

MINIMUM

FACILITY

7511 Airfield Dr

LOCATION

Richmond

VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

PARAMETER

929 ChesBay TMDL TSS

Nitrogen, Total (as N

930 ChesBay TMDL

931 ChesBay TMDL Phosphorus, Total (as

804-768-7720

REPORTED

REPORTED

REPORTED

REQUIREMENT

REQUIREMENT

REQUIREMENT

PERM	IT NUMBI	ER	OUTFALL NO.				
Check			D				
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY
	2014	July	1		2014	December	31
	2015	Januan	/ 1		2015	June	30
X	2015	July	1		2015	December	31
	2016	January	/ 1		2016	June	30
	2016	July	1		2016	December	31
	2017	January	/ 1		2017	June	30
	2017	July	1		2017	December	31
	2018	January	/ 1		2018	June	30
				1 1			

007

	2	018	January	1	2018	June		
	2	018	July	1	2018	Decemb	er	
	2	019	January	1	2019	June		
CONCENT	RATION			NO. EX.	SAMPI			
AVERAGE	MAXIMUM	T	UNITS	EX.	1176			
*****	1.2	MG	/L	0	GRA	В		
*****	NL	MG	/L		GRA	В		
*****	<0.50	MG	-/L	0	GRA	В		
*****	NL	MG	/L		GRA	В		
*****	0.02	MG	/L	0	GRA	В		

MG/L

STORM EVENT INFORMATION								
DATE	YR MO DA							
	15	12	17					
DURATION	HRS MIN							
	8	0						
RAINFALL TOTAL (IN.)	0.70							
PRECEDING	DAY	s	HRS					
EVENT	2		16					

31 30

Comments:

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NL

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		DATE		
Shery D. Bailey	And &	246	01	67
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

GRAB



Certificate of Analysis

Final Report

Client Name:

EEE Consulting (Mechanicsville)

Date Issued:

12/28/2015 17:37

8525 Bell Creek Road

Mechanicsville VA, 23116

Submitted To:

Carroll Ellis

Project Number:

15-170

Client Site I.D.:

Chesterfield Airport

Purchase Order:

Laboratory Order ID: 15L0453

- Analytical Results

Sample I.D. C-2

Laboratory Sample ID:

Date/Time Sampled: 13	2/17/2015 0	8:25							
Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Hydrocarbons by G	С								
TPH-Volatiles (GRO)	01	SW8015C	<0.10 mg/L		0.10	1	12/18/15 19:52	12/18/15 19:52	MKD
Semivolatile Hydrocarbons l	by GC								
TPH-Semi-Volatiles (DRO)	01	SW8015C	<0.500 mg/L		0.500	1	12/21/15 10:43	12/21/15 22:06	JHV
Surr: Pentacosane Wet Chemistry Analysis	01	SW8015C	80.5 %		40-160	,	12/21/15 10:43	12/21/15 22:06	JHV
Nitrate+Nitrite as N	01	SM22 4500-NO3F-2011	0.19 mg/L		0.10	1	12/21/15 17:39	12/21/15 17:39	LAO
Nitrogen, Total	01	Calc.	<0.50 mg/L		0.50	1	12/22/15 09:16	12/22/15 09:16	LBH
Phosphorus, Total	01	SM22 4500PE-2011	0.08 rng/L		0.02	1	12/28/15 09:00	12/28/15 09:00	LAO
TKN as N	01	EPA351.2 R2.0	<0.50 mg/L		0.50	1	12/22/15 09:16	12/22/15 09:16	LBH
TSS	01	SM22 2540D-2011	4.0 mg/L		1.0	1	12/18/15 16:00	12/18/15 16:00	DLF



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EEE Consulting (Mechanicsville)

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12/28/2015 17:37

8525 Bell Creek Road

Mechanicsville VA, 23116

Submitted To:

Carroll Ellis

Project Number:

15-170

Client Site I.D.:

Chesterfield Airport

Purchase Order:

Laboratory Order ID: 15L0453

- Analytical Results

Sample I.D. C-3

Laboratory Sample ID:

Date/Time Sampled: 1	2/17/2015 0	8:20							
Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Hydrocarbons by G	C								
TPH-Volatiles (GRO) Semivolatile Hydrocarbons	02 by GC	SW8015C	<0.10 mg/L		0.10	1	12/18/15 20:15	12/18/15 20:15	MKD
,	•	014100450			0.500	_	10/04/15 10:10	40/04/45 00 00	
TPH-Semi-Volatiles (DRO)	02	SW8015C	0.612 mg/L		0.500		12/21/15 10:43	12/21/15 22:33	JHV
Surr: Pentacosane	02	SW8015C	76.4 %		40-160		12/21/15 10:43	12/21/15 22:33	JHV
Wet Chemistry Analysis									
Nitrate+Nitrite as N	02	SM22 4500-NO3F-2011	<0.10 mg/L		0.10	1	12/21/15 17:42	12/21/15 17:42	LAO
Nitrogen, Total	02	Calc.	3.27 mg/L		0.50	1	12/22/15 09:34	12/22/15 09:34	LBH
Phosphorus, Total	02	SM22 4500PE-2011	0.67 mg/L		0.02	1	12/28/15 09:00	12/28/15 09:00	LAO
TKN as N	02	EPA351.2 R2.0	3.27 mg/L	CI	0.50	1	12/22/15 09:34	12/22/15 09:34	LBH
TSS	02	SM22 2540D-2011	348 mg/L		1.0	1	12/18/15 16:00	12/18/15 16:00	DLF



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12/28/2015 17:37

8525 Bell Creek Road Mechanicsville VA, 23116

Submitted To:

Carroll Ellis

Project Number:

15-170

Client Site I.D.:

Chesterfield Airport

Purchase Order:

Laboratory Order ID: 15L0453

Analytical Results

Sample I.D. C-6

Laboratory Sample ID:

Date/Time Sampled: 12	2/17/2015 0	9:00							
Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Hydrocarbons by G	С								
TPH-Volatiles (GRO)	03	SW8015C	<0.10 mg/L		0.10	1	12/18/15 20:38	12/18/15 20:38	MKD
Semivolatile Hydrocarbons l	by GC								
TPH-Semi-Volatiles (DRO)	03	SW8015C	<0.500 mg/L		0.500	1	12/21/15 10:43	12/21/15 22:59	JHV
Surr: Pentacosane	03	SW8015C	71.9 %		40-160		12/21/15 10:43	12/21/15 22:59	JHV
Wet Chemistry Analysis									
Nitrate+Nitrite as N	03	SM22 4500-NO3F-2011	0.22 mg/L		0.10	1	12/21/15 17:45	12/21/15 17:45	LAO
Nitrogen, Total	03	Calc.	0.63 mg/L		0.50	1	12/22/15 09:36	12/22/15 09:36	LBH
Phosphorus, Total	03	SM22 4500PE-2011	0.08 mg/L		0.02	1	12/28/15 09:00	12/28/15 09:00	LAO
TKN as N	03	EPA351.2 R2.0	<0.50 mg/L		0.50	1	12/22/15 09:36	12/22/15 09:36	LBH
TSS	03	SM22 2540D-2011	2.5 mg/L		1.0	1	12/18/15 16:00	12/18/15 16:00	DLF



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12/28/2015 17:37

8525 Bell Creek Road Mechanicsville VA, 23116

Submitted To:

Carroll Ellis

Project Number:

15-170

Client Site I.D.:

Chesterfield Airport

Purchase Order:

Laboratory Order ID: 15L0453

- Analytical Results

Sample I.D. C-7

Laboratory Sample ID:

15L0453-04

Date/Time Sampled: 12/17/2015 09:05

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Hydrocarbons by G	С								
TPH-Volatiles (GRO) Semivolatile Hydrocarbons b	04 by GC	SW8015C	<6.10 mg/L		0.10	1	12/18/15 21:01	12/18/15 21:01	MKD
TPH-Semi-Volatiles (DRO)	04	SW8015C	<0.500 mg/L		0.500	1	12/21/15 10:43	12/22/15 00:18	JHV
Sun: Pentacosane Wet Chemistry Analysis	04	SW8015C	75.3 %		40-160	1	12/21/15 10:43	12/22/15 00:18	JHV
Nitrate+Nitrite as N	04	SM22 4500-NO3F-2011	0.18 mg/L		0.10	1	12/21/15 18:09	12/21/15 18:09	LAO
Nitrogen, Total	04	Calc.	<0.50 mg/L		0.50	1	12/22/15 09:38	12/22/15 09:38	LBH
Phosphorus, Total	04	SM22 4500PE-2011	0.02 mg/L		0.02	1	12/28/15 09:00	12/28/15 09:00	LAO
TKN as N	04	EPA351.2 R2.0	<0.50 mg/L		0.50	1	12/22/15 09:38	12/22/15 09:38	LBH
TSS	04	SM22 2540D-2011	1.2 mg/L		1.0	1	12/18/15 16:00	12/18/15 16:00	DLF



Certificate of Analysis

Final Report

Client Name:

EEE Consulting (Mechanicsville)

Date Issued:

12/28/2015 17:37

8525 Bell Creek Road

Mechanicsville VA, 23116

Submitted To:

Carroll Ellis

Project Number:

15-170

Client Site I.D.:

Chesterfield Airport

Purchase Order:

Laboratory Order ID: 15L0453

■ Analytical Results

ample ID Trip Blank

aboratory Sample ID:

Sample I.D. Inp Blar					Labora	tory S	ample ID: 1	5L0453-05	
Date/Time Sampled:	11/17/2015 1	10:55			Departing				
Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Anaiyst
Volatile Hydrocarbons by	y GC								
TPH-Volatiles (GRO)	05	SW8015C	<0.10 mg/L		0.10	1	12/18/15 14:07	12/18/15 14:07	MKD



Certificate of Analysis

Final Report

Client Name:

EEE Consulting (Mechanicsville)

8525 Bell Creek Road

Mechanicsville VA, 23116

Submitted To:

Carroll Ellis

Client Site I.D.:

Chesterfield Airport

Date Issued:

12/28/2015 17:37

Project Number:

15-170

Purchase Order:



Certificate of Analysis

Final Report

Client Name:

EEE Consulting (Mechanicsville)

Date Issued:

12/28/2015 17:37

8525 Bell Creek Road Mechanicsville VA, 23116

Submitted To:

Carroll Ellis

Project Number:

15-170

Client Site I.D.:

Chesterfield Airport

Purchase Order:

- Analytical Summary

Wet Chemistry Analysis

Preparation Method:

[CALC]

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Ana	llysis	Preparation Method:	No Prep Wet	Chem	
15L0453-01	990 mL / 990 mL	SM22 2540D-2011	BYL0499	SYL0576	
15L0453-02	40.0 mL / 40.0 mL	SM22 2540D-2011	BYL0499	SYL0576	
15L0453-03	995 mL / 995 mL	SM22 2540D-2011	BYL0499	SYL0576	
15L0453-04	940 mL / 940 mL	SM22 2540D-2011	BYL0499	SYL0576	
Wet Chemistry Ana	ılysis	Preparation Method:	No Prep Wet	Chem	
15L0453-01	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BYL0548	SYL0589	AL50102
15L0453-02	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BYL0548	SYL0589	AL50102
15L0453-03	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BYL0548	SYL0589	AL50102
15L0453-04	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BYL0548	SYL0589	AL50102
Wet Chemistry Ana	alysis	Preparation Method:	No Prep Wet	Chem	
15L0453-01	25.0 mL / 25.0 mL	EPA3512 R2.0	BYL0553	SYL0601	AL50103
15L0453-02	25.0 mL / 25.0 mL	EPA3512 R2.0	BYL0553	SYL0601	AL50103
15L0453-03	25.0 mL / 25.0 mL	EPA3512 R2.0	BYL0553	SYL0601	AL50103
15L0453-04	25.0 mL / 25.0 mL	EPA3512 R2.0	BYL0553	SYL0601	AL50103
Wet Chemistry Ana	alysis	Preparation Method:	No Prep Wet	Chem	
15L0453-01	25.0 mL / 25.0 mL	SM22 4500PE-2011	BYL0681	SYL0714	AG50049
15L0453-02	25.0 mL / 25.0 mL	SM22 4500PE-2011	BYL0681	SYL0714	AG50049
15L0453-03	25.0 mL / 25.0 mL	SM22 4500PE-2011	BYL0681	SYL0714	AG50049
15L0453-04	25.0 mL / 25.0 mL	SM22 4500PE-2011	BYL0681	SYL0714	AG50049
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Hydrocarb	ons by GC	Preparation Method:	SW5030B		
15L0453-01	5.00 mL / 5.00 mL	SW8015C	BYL0512	SYL0553	AL50083
15L0453-02	5.00 mL / 5.00 mL	SW8015C	BYL0512	SYL0553	AL50083
15L0453-03	5.00 mL / 5.00 mL	SW8015C	BYL0512	SYL0553	AL50083
15L0453-04	5.00 mL / 5.00 mL	SW8015C	BYL0512	SYL0553	AL50083
15L0453-05	5.00 mL / 5.00 mL	SW8015C	BYL0512	SYL0553	AL50083



Certificate of Analysis

Final Report

Client Name:

EEE Consulting (Mechanicsville)

Date Issued:

12/28/2015 17:37

Submitted To:

Carroll Ellis

Project Number:

15-170

Client Site I.D.:

Chesterfield Airport

8525 Bell Creek Road Mechanicsville VA, 23116

Purchase Order:

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Semivolatile Hydro	ocarbons by GC	Preparation Method:	SW8100		
15L0453-01	970 mL / 1.00 mL	SW8015C	BYL0537	SYL0606	AJ50157
15L0453-02	950 mL / 1.00 mL	SW8015C	BYL0537	SYL0606	AJ50157
15L0453-03	960 mL / 1.00 mL	SW8015C	BYL0537	SYL0606	AJ50157
15L0453-04	950 mL / 1.00 mL	SW8015C	BYL0537	SYL0606	AJ50157



Certificate of Analysis

Final Report

Client Name:

EEE Consulting (Mechanicsville)

Date Issued:

12/28/2015 17:37

8525 Bell Creek Road

Mechanicsville VA, 23116

Submitted To:

Carroll Ellis

Project Number:

15-170

Client Site I.D.:

Chesterfield Airport

Purchase Order:

Volatile Hydrocarbons by GC - Quality Control

Analyta	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Ouel
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RED	Limit	Qual
Batch BYL0512 - SW5030B										
Blank (BYL0512-BLK1)				Prepared	& Analyzed	d: 12/18/2	015			
TPH-Volatiles (GRO)	<0.10 mg/L	0.10	mg/L							
LCS (BYL0512-BS1)				Prepared	& Analyzed	d: 12/18/2	015			
TPH-Volatiles (GRO)	1.05 mg/L	0.10	mg/L	1.00		105	70-130			
LCS Dup (BYL0512-BSD1)				Prepared	& Analyze	d: 12/18/2	015			
TPH-Volatiles (GRO)	1.05 mg/L	0.10	mg/L	1.00		105	70-130	0.203	20	
Duplicate (BYL0512-DUP1)	Sour	ce: 15L0450	-02	Prepared	& Analyze	d: 12/18/2	015			
TPH-Volatiles (GRO)	<0.10 mg/L	0.10	mg/L	•	<0.10 mg/L			NA	20	
Matrix Spike (BYL0512-MS1)	Soul	ce: 15L0458	-01	Prepared	& Analyze	d: 12/18/2	015			
TPH-Volatiles (GRO)	1.04 mg/L	0.10	mg/L	1.00	<0.10 mg/L	104	70-130			
Matrix Spike Dup (BYL0512-MSD1)	Soul	ce: 15L0458	-01	Prepared	& Analyze	d: 12/18/2	015			
TPH-Volatiles (GRO)	1.04 mg/L	0.10	mg/L	1.00	<0.10 mg/L	104	70-130	0.258	20	



Certificate of Analysis

Final Report

Client Name:

EEE Consulting (Mechanicsville)

Date Issued:

12/28/2015 17:37

8525 Bell Creek Road

Mechanicsville VA, 23116

Submitted To:

Carroll Ellis

Project Number:

15-170

Client Site I.D.:

Chesterfield Airport

Purchase Order:

Semivolatile Hydrocarbons by GC - Quality Control

Analyte	Result	Reporting Limit	Units	•	Source Result	%REC	%REC Limits	RPD	RPD Limit	Quai
Batch BYL0537 - SW8100										
Blank (BYL0537-BLK1)				Prepared & /	<u>Analyzed</u>	: 12/21/2	015			
TPH-Semi-Volatiles (DRO)	<0.500 mg/L	0.500	mg/L							
Surr: Pentacosane	0.208		mg/L	0.250		83.1	40-160			
LCS (BYL0537-BS1)				Prepared &	Analyzed	: 12/21/2	015			
TPH-Semi-Volatiles (DRO)	4.4 mg/L	0.500	mg/L	5.00		88.0	40-160			
Surr: Pentacosane	0.238		mg/L	0.250		95.1	40-160			
Matrix Spike (BYL0537-MS1)	Sou	rce: 15L0453	-0:3	Prepared &	Analyzed	: 12/21/2	015			
TPH-Semi-Volatiles (DRO)	3.6 mg/L	0.500	mg/L	5.15 <0.5	500 mg/L	69.0	40-160			
Surr: Pentacosane	0.191		mg/L	0.258		74.1	40-160			
Matrix Spike Dup (BYL0537-MSD1)	Sou	rce: 15L0453	3-0:3	Prepared &	Analyzed	: 12/21/2	015			
TPH-Semi-Volatiles (DRO)	4.7 mg/L	0.500	mg/L	5.38 <0.5	500 mg/L	87.6	40-160	27.9	20	Р
Surr: Pentacosane	0.242		mg/L	0.269		89.9	40-160			



Certificate of Analysis

Final Report

Client Name:

EEE Consulting (Mechanicsville)

8525 Bell Creek Road

Mechanicsville VA, 23116

Submitted To:

Carroll Ellis

Project Number:

15-170

12/28/2015 17:37

Client Site I.D.:

Chesterfield Airport

Purchase Order:

Date Issued:

Wet Chemistry Analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYL0499 - No Prep Wet Chem										
Blank (BYL0499-BLK1)				Prepared 8	& Analyzed	i: 12/18/2	015			
TSS	<1.0 mg/L	1.0	mg/L		•					
LCS (BYL0499-BS1)				Prepared 8	& Analyzed	d: 12/18/2	015			
TSS	87.0 mg/L	1.0	mg/L	100		87.0	80-120			
Duplicate (BYL0499-DUP1)	Soul	ce: 15L0400	-0.1	Prepared 8	& Analyzec	d: 12/18/2	015			
rss	46.5 mg/L	1.0	mg/L	45	5.5 mg/L			2.17	30	
	Sour	ce: 15L0400	-02	Prepared 8	& Analyzed	d: 12/18/2	015			
Duplicate (BYL0499-DUP2)										
TSS	54.5 mg/L	1.0	mg/L	70	0.0 mg/L			24.9	30	
Batch BYL0548 - No Prep Wet Chem			mg/L	Prepared 8		d: 12/21/2	015	24.9	30	
Batch BYL0548 - No Prep Wet Chem Blank (BYL0548-BLK1)			mg/L			d: 12/21/2	015	24.9	30	
Batch BYL0548 - No Prep Wet Chem Blank (BYL0548-BLK1) Nitrate+Nitrite as N	54.5 mg/L	1.0			& Analyzed			24.9	30	
Batch BYL0548 - No Prep Wet Chem Blank (BYL0548-BLK1) Nitrate+Nitrite as N LCS (BYL0548-BS1)	54.5 mg/L	1.0		Prepared 8	& Analyzed			24.9		
Batch BYL0548 - No Prep Wet Chem Blank (BYL0548-BLK1) Nitrate+Nitrite as N LCS (BYL0548-BS1) Nitrate+Nitrite as N	<0.10 mg/L 2.64 mg/L	0.10	mg/L	Prepared 8	& Analyzed	d: 12/21/2 106	015 90-110	24.9		
Batch BYL0548 - No Prep Wet Chem Blank (BYL0548-BLK1) Nitrate+Nitrite as N LCS (BYL0548-BS1) Nitrate+Nitrite as N Matrix Spike (BYL0548-MS1)	<0.10 mg/L 2.64 mg/L	0.10	mg/L	Prepared 8 2.50 Prepared 8	& Analyzed	d: 12/21/2 106	015 90-110	24.9	30	M
Batch BYL0548 - No Prep Wet Chem Blank (BYL0548-BLK1) Nitrate+Nitrite as N LCS (BYL0548-BS1) Nitrate+Nitrite as N Matrix Spike (BYL0548-MS1) Nitrate+Nitrite as N	<0.10 mg/L <0.10 mg/L 2.64 mg/L Sour 3.21 mg/L	0.10 0.10 0.1	mg/L mg/L -18 mg/L	Prepared 8 2.50 Prepared 8	& Analyzed & Analyzed & Analyzed	d: 1 <u>2/21/2</u> 106 d: 1 <u>2/21/2</u> 123	015 90-110 015 90-110	24.9		М
Batch BYL0548 - No Prep Wet Chem Blank (BYL0548-BLK1) Nitrate+Nitrite as N LCS (BYL0548-BS1) Nitrate+Nitrite as N Matrix Spike (BYL0548-MS1) Nitrate+Nitrite as N Matrix Spike (BYL0548-MS2)	<0.10 mg/L <0.10 mg/L 2.64 mg/L Sour 3.21 mg/L	0.10 0.10 0.1 0.1 0.10	mg/L mg/L -18 mg/L	Prepared 8 2.50 Prepared 8 2.50 Prepared 8 2.50 Prepared 8	& Analyzed & Analyzed & Analyzed	d: 1 <u>2/21/2</u> 106 d: 1 <u>2/21/2</u> 123	015 90-110 015 90-110	24.9		M
Duplicate (BYL0499-DUP2) TSS Batch BYL0548 - No Prep Wet Chem Blank (BYL0548-BLK1) Nitrate+Nitrite as N LCS (BYL0548-BS1) Nitrate+Nitrite as N Matrix Spike (BYL0548-MS1) Nitrate+Nitrite as N Matrix Spike (BYL0548-MS2) Nitrate+Nitrite as N Matrix Spike (BYL0548-MS2) Mitrate+Nitrite as N	<0.10 mg/L <0.10 mg/L 2.64 mg/L Sour 3.21 mg/L Sour 3.02 mg/L	0.10 0.10 0.1 0.10 0.10 0.10 0.10	mg/L -18 mg/L -1 mg/L -1 mg/L	Prepared 8 2.50 Prepared 8 2.50 Prepared 8 2.50 Prepared 8	& Analyzed & Analyzed .14 mg/L & Analyzed 0.10 mg/L	d: 12/21/2 106 d: 12/21/2 123 d: 12/21/2 121	015 90-110 015 90-110 015 90-110	24.9		



Certificate of Analysis

Final Report

Client Name:

EEE Consulting (Mechanicsville)

Date Issued:

12/28/2015 17:37

8525 Bell Creek Road Mechanicsville VA, 23116

Submitted To:

Carroll Ellis

Project Number:

15-170

Client Site I.D.:

Chesterfield Airport

Purchase Order:

Wet Chemistry Analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYL0548 - No Prep Wet Chem	<u></u>									
Matrix Spike Dup (BYL0548-MSD2)	Şou	rce: 15L0358	-01	Prepared	& Analyzed	I: 12/21/2	015			
Nitrate+Nitrite as N	3.04 mg/L	0.10	mg/L	2.50	<0.10 mg/L	122	90-110	0.727	20	М
Batch BYL0553 - No Prep Wet Chem										
Blank (BYL0553-BLK1)				Prepared	& Analyzed	1: 12/22/2	015			
TKN as N	<0.50 mg/L	0.50	mg/L							
LCS (BYL0553-BS1)				Prepared	& Analyzed	i: 12/22/2	015			
TKN as N	10.0 mg/L	0.50	mg/L	10.0		100	90-110			
LCS Dup (BYL0553-BSD1)				Prepared	& Analyzed	1: 12/22/2	015			
TKN as N	9.07 mg/L	0.50	mg/L	10.0		90.7	90-110	10.1	20	
Matrix Spike (BYL0553-MS1)	Sou	rce: 15L0439	-02	Prepared	& Analyzed	1: 12/22/2	015			
TKN as N	9.83 mg/L	0.50	mg/L	10.0	1.21 mg/L	86.2	90-110			М
Matrix Spike (BYL0553-MS2)	Sou	rce: 15L0440	-02	Prepared	& Analyze	1: 12/22/2	015			
TKN as N	17.3 mg/L	0.50	mg/L	10.0	9.00 mg/L	83.0	90-110			М
Matrix Spike Dup (BYL0553-MSD1)	Sou	rce: 15L0439	-02	Prepared	& Analyzed	1: 12/22/2	015			
TKN as N	10.2 mg/L	0.50	mg/L	10.0	1.21 mg/L	89.8	90-110	3.66	20	М
Matrix Spike Dup (BYL0553-MSD2)	Sou	rce: 15L0440	-02	Prepared	& Analyzed	1: 12/22/2	015			
TKN as N	19.7 mg/L	0.50	mg/L	10.0	9.00 mg/L	107	90-110	12.9	20	
Data Is DVI Adda and No Data Wat Charles										
Batch BYL0681 - No Prep Wet Chem		_								
Blank (BYL0681-BLK1)				Prepared	& Analyzed	<u>1: 12/28/2</u>	015			
Phosphorus, Total	<0.02 mg/L	0.02	mg/L							



Certificate of Analysis

Final Report

Client Name:

EEE Consulting (Mechanicsville)

Date Issued:

12/28/2015 17:37

8525 Bell Creek Road

Mechanicsville VA, 23116

Submitted To:

Carroll Ellis

Project Number:

15-170

Client Site I.D.:

Chesterfield Airport

Purchase Order:

Wet Chemistry Analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BYL0681 - No Prep Wet Chem										
LCS (BYL0681-BS1)				Prepared 8	& Analyzed	1: 12/28/20	015			
Phosphorus, Total	0.47 mg/L	0.02	mg/L	0.500		93.8	80-120			
Matrix Spike (BYL0681-MS1)	Sou	rce: 15L0458	-01	Prepared 8	& Analyzed	1: 12/28/20	015			
Phosphorus, Total	0.56 mg/L	0.02	mg/L	0.500 0.	05 mg/L	101	80-120			
Matrix Spike Dup (BYL0681-MSD1)	Sou	rce: 15L0458	-01	Prepared 8	& Analyzed	1: 12/28/20	015			
Phosphorus, Total	0.50 mg/L	0.02	mg/L	0.500 0.	05 mg/L	90.2	80-120	10.4	20	



Certificate of Analysis

Final Report

Client Name:

EEE Consulting (Mechanicsville)

8525 Bell Creek Road

Mechanicsville VA, 23116

Submitted To: Client Site I.D.: Carroll Ellis

Chesterfield Airport

Date Issued:

12/28/2015 17:37

15-170

Project Number:

Purchase Order:

Certified Analyses included in this Report

Analyte Certifications

EPA351.2 R2.0 in Non-Potable Water

TKN as N

SM22 2540D-2011 in Non-Potable Water

188

SM22 4500-NO3F-2011 In Non-Potable Water

Nitrate+Nitrite as N

SM22 4500PE-2011 in Non-Potable Water

Phosphorus, Total

SW8015C in Non-Potable Water

TPH-Semi-Volatiles (DRO)

TPH-Volatiles (GRO)

Oei tilleations

VELAP,NC

VELAP,NC

VELAP

VELAP,NC

VELAP,NC,WVDEP

VELAP,NC,WVDEP

Code	Description	Lab Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2015
NC	North Carolina DENR	495	12/31/2015
VELAP	NELAC-Virginia Certificate #I3074	460021	06/15/2016



Certificate of Analysis

Final Report

Client Name:

EEE Consulting (Mechanicsville)

Date Issued:

12/28/2015 17:37

8525 Bell Creek Road

Mechanicsville VA, 23116

Submitted To:

Carroll Ellis

Project Number:

15-170

Client Site I.D.:

Chesterfield Airport

Purchase Order:

Summary of Data Qualifiers

Cl Residual Chlorine or other oxidizing agent was detected in the container used to analyze this sample.

M Matrix spike recovery is outside established acceptance limits

P Duplicate analysis does not meet the acceptance criteria for precision

RPD Relative Percent Difference

Oual Oualifers

TIC

-RE Denotes sample was re-analyzed

D.F. Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section.

Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library. A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated

using an internal standard response factor of 1.



1941 REYMET ROAD RICHMOND, VIRGINIA 23237 (804) 358-8295 PHONE (804)358-8297 FAX Chain of California Form St. Ottobar : Bank and hotive: Feb 14, Spirit

CHAIN OF CUSTODY INVOICE TO: E.E. PROJECT NAME/Quote #: (*) COMPANY NAME: INVOICE CONTACT: SITE NAME: PROJECT NUMBER: INVOICE ADDRESS: **INVOICE PHONE #:** P.O. #: PHONE #: Acce-consulta Pretreatment Program: EMAIL: CP FAX #: Is sample from a chlorinated supply? PWS I.D. #: Is sample for compliance reporting? YES SAMPLER NAME (PRINT): CATO Turn Around Time: 5 Day(s) SAMPLER SIGNATURE: COMMENTS Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Solt/Solids OR=Organic A=Air WP=Wine OT=Other. Preservative Codes: N=Nitric Acid Field Filtered (Dissolved Metals) ANALYSIS / (PRESERVATIVE) C=Hydrachlaric Acid S=Suffuric Acid H=Sodium Hydroxide A=Ascorbic Acid Z=Zinc Acetate T=Sodium Thiosuffate M=Methanol Time Composite Start Date Composite Start Time Date Number of Containe Matrix (See Codes) CLIENT SAMPLE I.D. Grab Date or Composite Stop D Composite Stop Grab Time or Composite GRO PLEASE NOTE PRESERVATIVE(S). Grab INTERFERENCE CHECKS or PUMP RATE (L/min) 6) 8) 10) QC Data Package COOLER TEMP 16.3 °C DATE / TIME RECEIVED LAB USE ONLY 17/14 1010 DEE 15L0453 Level II **Chesterfield County Airport** LINGUISHED 0 DATE / TIME RECEIVED: DATE / TIME Level III Recd: 12/17/2015 Due: 12/28/2015 Level IV

Sample Condition Forms: F1302 Rev. #: 6.0 Effective: Jul 31, 2015 Page 1 of 1



1941 Reymet Road • Richmond, Virginia 23237 • Tel : [804] 358-825

EEE

15L0453

Chesterfield County Airport

	Sample Condit	ions Checklist	Recd: 12/1	7/201	5 Due: 12/28/2015
Opene	d by: (Initials)	Lab ID No.:			412022002
		Date Cooler Opened:	17 DEC 2	2015	
1.	How were samples received? Fed Ex UPS Courter Walk In		YEŞ	NO	N/A
2.	Were custody seels used?			PE	
3.	If yes, are custody seals unbroken and intact at the	e date and time of arrival?			₽PP
4.	Are the custody papers filled out completely and o	correctly?		P	Ò
5.	Do all bottle labels agree with custody papers?		Ø		
7.	Is the temperature blank or representative sample (above freezing to 6°C)	within acceptable limits?	P		
8.	If NO, are the samples just taken and received on	ice?			P
9.	Are all samples within holding time for requested	laboratory tests?	7		
10.	is a sufficient amount of sample provided to perfo	rm the tests indicated?	È		
11.	Are all samples in proper containers for the analy	tes requested?	P		
12.	Are all samples appropriately preserved for the ar	ralyties irequested?	Ø		
13.	Are all volatile organic containers free of headspa	ce?	F		
14.	Are all TOX containers free of headspace?				128 °
15.	Is Trip blank provided with each VOC sample set (Document if trip blank is not received with the sa	* *	9		
	EPA 8011 EPA 504 EPA 8260	EPA 624			
	RSK-175 EPA 8015 (GRO)	EPA 8021			
	EPA 524 *GRO Wisconsin DNR (water ar	nd/or me thanol trip blank must	be provided)		
* See pr	servation log for Wisconsin soil DRO. COMN	<u>enis</u>			
SA	mples were determen out	ENE OF HOLDEN	4 Temp,	CARO	DILL
Eu	S WAS NOTTED BY EMAT	AND WAS ASK	ed to con	FERN	1
THA	THE FEELD BLOOM WAS A	CHALLY THE TERP	BLANK THAT	- 144	
_	EVED. IN THE ZOUS	,			
FORL	B USE ONLY:				
CrVI pro	served date/time:				
Buffer S	oin ID:	Arialyst intials:			
1N NaC	H ID: or	5NI NaOH ID:	THIS DOCUM	ENT IS UN	ICONTROLLED WHEN PRINTED F1302 Sample Condition 6_0.xls

WATER SOIL

Order ID_____ 15L0453_____

Sample Preservation Log

Sample Preservation Log Form #: F1301 Rev # 4.0

Rev # 4.0 Effective: Mar 13, 2015 Page 1 of 1

Date Performed:	17 Da	2015
-----------------	-------	------

Analyst Performing Check: P/A = Present/Absent

	9	Me	tals		Cyani	de		ılfide		Ame	monia		TIC		P	hos,	Tot	N	03+N			DRC		P	estic 081/6		SVO						
Sample ID	Container	pH as Receive	d a	P 21	estved Cther	Pleasing part.	pH a Receiv	e red her	1	pH as Reach	· į	- V	pH as leceived t Other	1	1 Page 12	H as calved Other	100		it as solved Other	1000	7 Ro	M so colved Other	Product.	Ros. Rose	CI NS shoot Abount	Res Rec	C) as silved Absent	Bea.Cl	Ploce	as ived Other	Float pil	pH as Received	- 9 5
01	A																																
01	B											1	1																				
02	A																																
02	B	1										V	1																				
03	A					444														S. Ry		40.00											
03	В																				/												
03	c											L									/												
03	D												1		\angle			\square															
04	A											L																					
Yo	5												1		\angle			\square															
												L																					
												L																					

1	H ID:	HCL ID:
ı	Page 04 ID:	HNO3 ID:
ı	Wisconsin soil samples must be preserved with MeCi2 within	72 hours of sample collection - NOTHY EXTRACTION DEPARTMENT.

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

Piedmont Regional Office

4949-A Cox Road

(804)527-5020

Glen Allen

DEPT. OF ENVIRONMENTAL QUALITY

(REGIONAL OFFICE)

VA 23060

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

23237

FACILITY LOCATION 7511 Airfield Dr

Richmond

VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7720

VAR051129	002
PERMIT NUMBER	OUTFALL N

Check		M	OTINC	RING	PERIO	D	
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY
	2014	July	1		2014	December	31
	2015	January	1		2015	June	30
	2015	July	1		2015	December	31
X	2016	January	1		2016	June	30
	2016	July	1		2016	December	31
	2017	January	1		2017	June	30
	2017	July	1		2017	December	31
	2018	January	1		2018	June	30
	2018	July	1		2018	December	31
	2019	January	1		2019	June	30

PARAMETER			CONCEN	TRATION		NO.	SAMPLE TYPE	
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	ITPE	
004 TSS	REPORTED	******	******	10.8	MG/L	0	GRAB	
	BENCHMARK CONC	******	******	100	MG/L		GRAB	
257 PETROLEUM	REPORTED	*****	******	<0.100	MG/L	0	GRAB	
HYDROCARBONS, TOTAL R	BENCHMARK CONC	******	******	15	MG/L		GRAB	

STORM INFORM				
DATE	YR	M	oli	DAY
	16	6	1	23
DURATION	HRS		MIN	
	1		30)
RAINFALL TOTAL (IN.)	0	.45	;	
PRECEDING	DAY	s	Н	RS
EVENT	6		6.5	

Comments:

Samples were received by laboratory outside of holding temperature. Samples were collected and taken directly to laboratory.

PRINCIPAL EXECUTIVE OF	FICER OR AUTHORIZED AGENT	1	DATE	
RESUCCET DICKSEN	Rescea T Diehm	16	07	28
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

VAR051129

PERMIT NUMBER

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Piedmont Regional Office

4949-A Cox Road Glen Allen

VA 23060

(804)527-5020

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

VA 23237

FACILITY

7511 Airfield Dr

LOCATION

Richmond

VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7720

Check		MONITORING PERIOD												
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY							
	2014	July	1		2014	December	31							
	2015	January	1		2015	June	30							
	2015	July	1		2015	December	31							
X	2016	January	1		2016	June	30							
	2016	July	1		2016	December	31							
	2017	January	1		2017	June	30							
	2017	July	1		2017	December	31							
	2018	January	1		2018	June	30							
	2018	July	1		2018	December	31							
	2019	January	1		2019	June	30							

002

OUTFALL NO.

PARAMETER			NO.	SAMPLE			
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	TYPE
929 ChesBay TMDL TSS	REPORTED	*****	******	10.8	MG/L	0	GRAB
	REQUIREMENT	******	*****	NL	MG/L		GRAB
930 ChesBay TMDL	REPORTED	*****	*****	1.21	MG/L	0	GRAB
Nitrogen, Total (as N	REQUIREMENT	*****	******	NL	MG/L		GRAB
931 ChesBay TMDL Phosphorus, Total (as	REPORTED	*****	*****	0.18	MG/L	0	GRAB
	REQUIREMENT	******	******	NL	MG/L		GRAB

STORM			
DATE	YR	МО	DAY
	16	6	23
DURATION	HRS	M	IIN
	1		30
RAINFALL TOTAL (IN.)	0	.45	
PRECEDING	DAY	'sl	HRS
ことと	6	16	.5

Comments:

Samples were received by laboratory outside of holding temperature. Samples were collected and taken directly to laboratory.

PRINCIPAL EXECUTIVE	DATE			
RESICCIT DICKSON	Resen T Dichm_	2016	07	28
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Piedmont Regional Office

4949-A Cox Road

Glen Allen (804)527-5020

VA 23060

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

Chesterfield County Airport

FACILITY NAME ADDRESS

7511 Airfield Dr

Richmond

VA 23237

FACILITY

7511 Airfield Dr

LOCATION

Richmond

VA 23237

CONTACT PERSON

Patrick Driscoll 804-768-7720

TELEPHONE

003
OUTFALL NO.

Check	MONITORING PERIOD									
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY			
	2014	July	1		2014	December	31			
	2015	January	1		2015	June	30			
	2015	July	1		2015	December	31			
X	2016	January	1		2016	June	30			
	2016	July	1		2016	December	31			
	2017	January	1		2017	June	30			
	2017	July	1		2017	December	31			
	2018	January	1		2018	June	30			
	2018	July	1		2018	December	31			
	2019	January	1		2019	June	30			

	STORM INFORM			
	DATE	YR	МС	DAY
		16	6	23
	DURATION	HRS		MIN
		1	30	
	RAINFALL TOTAL (IN.)	0	.45	
PR	PRECEDING	DAY	s	HRS
	EVENT	6	T	e E

PARAMETER		CONCENTRATION					SAMPLE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	TYPE
004 TSS	REPORTED	*****	*****	15	MG/L	0	GRAB
	BENCHMARK CONC	******	******	100	MG/L		GRAB
257 PETROLEUM HYDROCARBONS, TOTAL R	REPORTED	*****	******	<0.100	MG/L	0	GRAB
	BENCHMARK CONC	******	******	15	MG/L		GRAB

Comments:

Samples were received by laboratory outside of holding temperature. Samples were collected and taken directly to laboratory.

PRINCIPAL EXECUTIVE O		DATE	\mathbf{H}	
REBECKT DICKSON	Resourt Dichn	2016	07	28
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

VAR051129

PERMIT NUMBER

2019

January

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

Piedmont Regional Office

4949-A Cox Road

Glen Allen

DEPT. OF ENVIRONMENTAL QUALITY

(REGIONAL OFFICE)

VA 23060

(804)527-5020

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

VA 23237

FACILITY LOCATION 7511 Airfield Dr

Richmond

VA 23237

CONTACT PERSON

TELEPHONE

Patrick Driscoll 804-768-7720

Check		MONITORING PERIOD									
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY				
	2014	July	1		2014	December	31				
	2015	January	1		2015	June	30				
	2015	July	1		2015	December	31				
X	2016	January	1		2016	June	30				
	2016	July	1		2016	December	31				
	2017	January	1		2017	June	30				
	2017	July	1		2017	December	31				
	2018	January	1		2018	June	30				
	2018	July	1		2018	December	31				

1

2019

June

30

003 **OUTFALL NO.**

PARAMETER		CONCENTRATION					SAMPLE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	TYPE
929 ChesBay TMDL TSS	REPORTED	*****	******	15	MG/L	0	GRAB
	REQUIREMENT	*****	******	NL	MG/L		GRAB
930 ChesBay TMDL	REPORTED	******	*****	1.04	MG/L	0	GRAB
Nitrogen, Total (as N	REQUIREMENT	*****	*****	NL	MG/L		GRAB
931 ChesBay TMDL Phosphorus, Total (as	REPORTED	*****	******	0.24	MG/L	0	GRAB
	REQUIREMENT	******	******	NL	MG/L		GRAB

STORM				
DATE	YR	М	0	DAY
	16	6		23
DURATION	HRS		М	IN
	1		3	30
RAINFALL TOTAL (IN.)	0	.45	5	
PRECEDING	DAY	S	ı	HRS
EVENT	6		6.	.5

Comments:

Samples were received by laboratory outside of holding temperature. Samples were collected and taken directly to laboratory.

PRINCIPAL EXECUTIVE OF		DATE		
ResecreT Dickon	Resur T Dietm	2016	07	.28
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) **DISCHARGE MONITORING REPORT (DMR)**

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

VA 23237

FACILITY LOCATION 7511 Airfield Dr

Richmond

VA 23237

CONTACT PERSON

Patrick Driscoll 804-768-7720

TELEPHONE

PARAMETER

257 PETROLEUM HYDROCARBONS, TOTAL R

004 TSS

OUTFALL NO.
006

Check	MONITORING PERIOD								
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY		
	2014	July	1		2014	December	31		
	2015	January	1		2015	June	30		
	2015	July	1		2015	December	31		
Х	2016	January	1		2016	June	30		
	2016	July	1		2016	December	31		
	2017	January	1		2017	June	30		
	2017	July	1		2017	December	31		
	2018	January	1		2018	June	30		
	2018	July	1		2018	December	31		
	2019	January	1		2019	June	30		

		CONCEN	TRATION		NO.	SAMPLE
	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	TYPE
REPORTED	*****	*****	11.2	MG/L	0	GRAB
BENCHMARK CONC	******	******	100	MG/L		GRAB
REPORTED	******	******	<0.100	MG/L	0	GRAB
BENCHMARK CONC	******	*****	15	MG/L		GRAB

STORM EVENT INFORMATION						
DATE	YR	MC	DAY			
	16	6	23			
DURATION	HRS	MIN				
	1		30			
RAINFALL TOTAL (IN.)	0.45					
PRECEDING	DAYS		HRS			
EVENT	6		6.5			

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

23060

Comments:

Samples were received by laboratory outside of holding temperature. Samples were collected and taken directly to laboratory.

PRINCIPAL EXECUTIVE OF	FICER OR AUTHORIZED AGENT	-	DATE	
Resect Dickson	Resur T Dickm	2016	07	28
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

Glen Allen

DEPT. OF ENVIRONMENTAL QUALITY

(REGIONAL OFFICE)

Piedmont Regional Office

4949-A Cox Road

(804)527-5020

VA

23060

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

VA 23237

23237

FACILITY

7511 Airfield Dr

LOCATION Richmond

VA

CONTACT PERSON

Patrick Driscoll 804-768-7720

TELEPHONE

VAR051129 006	PERMIT NUMBER	OUTFALL NO.
	VAR051129	006

Check	MONITORING PERIOD								
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY		
	2014	July	1		2014	December	31		
	2015	January	1		2015	June	30		
	2015	July	1		2015	December	31		
Х	2016	January	1		2016	June	30		
	2016	July	1		2016	December	31		
	2017	January	1		2017	June	30		
	2017	July	1		2017	December	31		
	2018	January	1		2018	June	30		
	2018	July	1		2018	December	31		
	2019	January	1		2019	June	30		

PARAMETER			CONCEN	TRATION		NO.	SAMPLE
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	TYPE
929 ChesBay TMDL TSS	REPORTED	*****	******	11.2	MG/L	0	GRAB
	REQUIREMENT	*****	*****	NL	MG/L		GRAB
930 ChesBay TMDL	REPORTED	******	******	0.9	MG/L	0	GRAB
Nitrogen, Total (as N	REQUIREMENT	******	*****	NL	MG/L		GRAB
931 ChesBay TMDL Phosphorus, Total (as	REPORTED	******	*****	0.21	MG/L	0	GRAB
	REQUIREMENT	******	******	NL	MG/L		GRAB

STORM INFORM				
DATE	YR	МО	DAY	
	16	6	23	
DURATION	HRS	MIN		
	1		30	
RAINFALL TOTAL (IN.)	0	0.45		
PRECEDING EVENT	DAY	S	HRS	
	6	6	.5	

Comments:

Samples were received by laboratory outside of holding temperature. Samples were collected and taken directly to laboratory.

PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		- 1	DATE	
RESECCET DICKSON	Reduct Dietm	2016	07	28
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

VA 23237

FACILITY

7511 Airfield Dr

LOCATION Richmond VA 23237

CONTACT PERSON

Patrick Driscoll 804-768-7720

TELEPHONE

VAR051129 **OUTFALL NO.** PERMIT NUMBER

Check	MONITORING PERIOD								
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY		
	2014	July	1		2014	December	31		
	2015	January	1		2015	June	30		
	2015	July	1		2015	December	31		
X	2016	January	1		2016	June	30		
	2016	July	1		2016	December	31		
	2017	January	1		2017	June	30		
	2017	July	1		2017	December	31		
	2018	January	1		2018	June	30		
	2018	July	1		2018	December	31		
	2019	January	1		2019	June	30		

007

			_
STORM INFORM			
DATE	YR	MC	DAY
	16	6	23
DURATION	HRS		MIN
	1		30
RAINFALL TOTAL (IN.)	0.45		
PRECEDING	DAYS		HRS
EVENT	6		6.5

DEPT. OF ENVIRONMENTAL QUALITY

(REGIONAL OFFICE)

VA

23060

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

PARAMETER			NO.	SAMPLE TYPE			
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	ITPE
004 TSS	REPORTED	*****	******	8.2	MG/L	0	GRAB
	BENCHMARK CONC	******	******	100	MG/L		GRAB
257 PETROLEUM	REPORTED	*****	******	<0.100	MG/L	0	GRAB
HYDROCARBONS, TOTAL R	BENCHMARK CONC	******	*****	15	MG/L		GRAB

Comments:

Samples were received by laboratory outside of holding temperature. Samples were collected and taken directly to laboratory.

PRINCIPAL EXECUTIVE (288		
Resecce T DICKSON	Reseea T Dickm	2016	07	28
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) **DISCHARGE MONITORING REPORT (DMR)**

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

TYPE: STORM WATER

TMDL WASTE LOAD ALLOCATION MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

VA 23237

FACILITY

7511 Airfield Dr

LOCATION

Richmond

VA 23237

CONTACT PERSON

Patrick Driscoll

TELEPHONE

804-768-7720

PERMIT NUMBER	OUTFALL NO.
VAR051129	007

Check		M	ONITO	RING	PERIO	D	
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY
	2014	July	1		2014	December	31
	2015	January	1		2015	June	30
X	2015	July	1		2015	December	31
	2016	January	1		2016	June	30
	2016	July	1		2016	December	31
	2017	January	1		2017	June	30
	2017	July	1		2017	December	31
	2018	January	1		2018	June	30
	2018	July	1		2018	December	31
	2019	January	1		2019	June	30

PARAMETER				NO.	SAMPLE			
The second second	7	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	TYPE	
929 ChesBay TMDL TSS	REPORTED	*****	******	8.2	MG/L	0	GRAB	
*	REQUIREMENT	*****	******	NL	MG/L		GRAB	
930 ChesBay TMDL	REPORTED	******	******	1.33	MG/L	0	GRAB	
Nitrogen, Total (as N	REQUIREMENT	******	******	NL	MG/L		GRAB	
931 ChesBay TMDL	REPORTED	******	******	0.21	MG/L	0	GRAB	
Phosphorus, Total (as	REQUIREMENT	*****	*****	NL	MG/L		GRAB	

STORM INFORM						
DATE	YR	М		DAY		
	16	6	T	23		
DURATION	HRS	MIN				
	1	30				
RAINFALL TOTAL (IN.)	0.45					
PRECEDING	DAY	S	HRS			
EVENT	6	1	G E			

DEPT. OF ENVIRONMENTAL QUALITY

Piedmont Regional Office

4949-A Cox Road Glen Allen

(804)527-5020

(REGIONAL OFFICE)

VA

23060

Comments:

Samples were received by laboratory outside of holding temperature. Samples were collected and taken directly to laboratory.

PRINCIPAL EXECUTIVE O				
Resecret Dickson	Reduce T Diction	2016	07	28
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY



6/30/2016 2:35:41PM

Date Issued:

0.01

0.20

1.0

0.02

0.50

1.0

Analysis Detects Report

Client Name:

EEE Consulting (Mechanicsville)

03

03

03

Client Site ID:

Chesterfield County Airport

Submitted To:

Phosphorus, Total

TKN as N

TSS

Carroll Ellis

Laboratory Sample ID:	16F0657-01	Client S	ample ID: C-2						
								Dil.	
Parameter		Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Factor	Units
Nitrate+Nitrite as N		01	SM22 4500-NO3F-2011	0.15		0.02	0.10	1	mg/L
Nitrogen, Total		01	Calc.	1.21		0.20	0.50	1	mg/L
Phosphorus, Total		01	SM22 4500PE-2011	0.18		0.01	0.02	1	mg/L
TKN as N		01	EPA351.2 R2.0	1.06		0.20	0.50	1	mg/L
TSS		01	SM22 2540D-2011	10.8		1.0	1.0	1	mg/L
Laboratory Sample ID:	16F0657-02	Client S	ample ID: C-3						
								Dil.	
Parameter		Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Factor	Units
Nitrate+Nitrite as N		02	SM22 4500-NO3F-2011	0.28		0.02	0.10	1	mg/L
Nitrogen, Total		02	Calc.	1.04		0.20	0.50	1	mg/L
Phosphorus, Total		02	SM22 4500PE-2011	0.24		0.01	0.02	1	mg/L
TIZEL NI		02	EPA351.2 R2.0	0.77		0.20	0.50	1	mg/L
IKN as N		02	LI 7/00 1.2 1/2.0	0.77		0.20			
		02	SM22 2540D-2011	15.0		1.0	1.0	1	mg/L
TSS	16F0657-03	02					1.0	1	mg/L
TSS	16F0657-03	02	SM22 2540D-2011				1.0	Dil.	mg/L
Laboratory Sample ID:	16F0657-03	02	SM22 2540D-2011		Qual		1.0 LOQ	1 Dil. Factor	
TKN as N TSS Laboratory Sample ID: Parameter Nitrate+Nitrite as N	16F0657-03	02 Client S	SM22 2540D-2011 ample ID: C-6	15.0	Qual	1.0			mg/L Units mg/L

0.21

0.63

11.2

SM22 4500PE-2011

EPA351.2 R2.0

SM22 2540D-2011

mg/L

mg/L

mg/L



6/30/2016 2:35:41PM

Date Issued:

Analysis Detects Report

Client Name:

EEE Consulting (Mechanicsville)

Client Site ID:

Chesterfield County Airport

Submitted To:

Carroll Ellis

Laboratory Sample ID:	16F0657-04	Client Sa	ample ID: C-7						
								Dil.	
Parameter		Samp ID	Reference Method	Sample Results	Qual	DL	LOQ	Factor	Units
Nitrate+Nitrite as N		04	SM22 4500-NO3F-2011	0.48		0.02	0.10	1	mg/L
Nitrogen, Total		04	Calc.	1.33		0.20	0.50	1	mg/L
Phosphorus, Total		04	SM22 4500PE-2011	0.21		0.01	0.02	1	mg/L
TKN as N		04	EPA351.2 R2.0	0.85		0.20	0.50	11	mg/L
TSS		04	SM22 2540D-2011	8.2		1.0	1.0	1	mg/L

Note that this report is not the "Certificate of Analysis". This report only lists the target analytes that displayed concentrations that exceeded the detection limit specified for that analyte. For a complete listing of all analytes requested and the results of the analysis see the "Certificate of Analysis".



Certificate of Analysis

Final Report

Laboratory Order ID 16F0657

Client Name: EEE Consulting (Mechanicsville)

Date Received:

June 23, 2016 12:44

8525 Bell Creek Road

Date Issued:

June 30, 2016 14:35

Mechanicsville, VA 23116

Project Number:

15-170

Submitted To: Carroll Ellis

Purchase Order:

Client Site I.D.: Chesterfield County Airport

Enclosed are the results of analyses for samples received by the laboratory on 06/23/2016 12:44. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Ted Soyars

Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and suffite: that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor nave they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized representative of Air Water & Soil Laboratories, Inc.









6/30/2016 2:35:41PM

Date Issued:

Certificate of Analysis

EEE Consulting (Mechanicsville)

Client Site I.D.: Chesterfield County Airport

Submitted To: Carroll Ellis

Client Name:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-2	16F0657-01	Waste Water	06/23/2016 09:26	06/23/2016 12:44
C-3	16F0657-02	Waste Water	06/23/2016 09:34	06/23/2016 12:44
C-6	16F0657-03	Waste Water	06/23/2016 09:10	06/23/2016 12:44
C-7	16F0657-04	Waste Water	06/23/2016 09:16	06/23/2016 12:44
Trip Blank	16F0657-05	Waste Water	02/15/2016 11:10	06/23/2016 12:44



6/30/2016 2:35:41PM

Certificate of Analysis

Client Name:

EEE Consulting (Mechanicsville)

Client Site I.D.:

Chesterfield County Airport

Submitted To:

Carroll Ellis

Client Sample ID:

C-2

Laboratory Sample ID:

16F0657-01

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Hydrocarbons by GC												
TPH-Volatiles (GRO)	01	NA	SW8015C	06/25/2016 02:00	06/25/2016 02:00	BLOD		0.10	0.10	1	mg/L	CL
Semivolatile Hydrocarbons by GC												
TPH-Semi-Volatiles (DRO)	01	NA	SW8015C	06/28/2016 14:10	06/28/2016 19:24	BLOD		0.300	0.500	1	mg/∟	JHV
Surr: Pentacosane	01	72.9	40-160	06/28/2016 1	4:10 06/28/2016 19	24						
Wet Chemistry Analysis												
Nitrate+Nitrite as N	01	NA	SM22 4500-NO3F- 2011	06/24/2016 13:17	06/24/2016 13:17	0.15		0.02	0.10	1	mg/L	BBP
Nitrogen, Total	01	NA	Calc.	06/24/2016 13:17	06/24/2016 13:17	1.21		0.20	0.50	1	mg/L	LBH
Phosphorus, Total	01	7723-14-0	SM22 4500PE-201 1	06/27/2016 10:00	06/27/2016 10:00	0.18		0.01	0.02	1	mg/L	MLG
TKN as N	01	7727-37-9	EPA351.2 R2.0	06/23/2016 15:53	06/23/2016 15:53	1.06		0.20	0.50	1	mg/L	LBH
TSS	01	NA	SM22 2540D-2011	06/24/2016 10:00	06/24/2016 10:00	10.8		1.0	1.0	1	mg/L	DLF



6/30/2016 2:35:41PM

Certificate of Analysis

Client Name:

EEE Consulting (Mechanicsville)

Client Site I.D.:

Chesterfield County Airport

Submitted To:

Carroll Ellis

C-3

Client Sample ID:

Laboratory Sample ID: 16F0657-02

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Hydrocarbons by GC												
TPH-Volatiles (GRO)	02	NA	SW8015C	06/25/2016 02:23	06/25/2016 02:23	BLOD		0.10	0.10	1	mg/L	CL
Semivolatile Hydrocarbons by GC												
TPH-Semi-Volatiles (DRO)	02	NA	SW8015C	06/28/2016 14:10	06/28/2016 19:50	BLOD		0.300	0.500	1	mg/L	JHV
Surr: Pentacosane	02	70.3	3 % 40-160	06/28/2016 1	4:10 06/28/2016 19	2:50						
Wet Chemistry Analysis												
Nitrate+Nitrite as N	02	NA	SM22 4500-NO3F- 2011	06/24/2016 13:20	06/24/2016 13:20	0.28		0.02	0.10	1	mg/L	BBP
Nitrogen, Total	02	NA	Calc.	06/24/2016 13:20	06/24/2016 13:20	1.04		0.20	0.50	1	mg/L	LBH
Phosphorus, Total	02	7723-14-0	SM22 4500PE-201 1	06/27/2016 10:00	06/27/2016 10:00	0.24		0.01	0.02	1	mg/L	MLG
TKN as N	02	7727-37-9	EPA351.2 R2.0	06/23/2016 15:53	06/23/2016 15:53	0.77		0.20	0.50	1	mg/L	LBH
TSS	02	NA	SM22 2540D-2011	06/24/2016 10:00	06/24/2016 10:00	15.0		1.0	1.0	1	mg/L	DLF



6/30/2016 2:35:41PM

Certificate of Analysis

Client Name:

EEE Consulting (Mechanicsville)

Client Site I.D.:

Chesterfield County Airport

Submitted To:

Carroll Ellis

C-6

Client Sample ID:

Laboratory Sample ID:

16F0657-03

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Hydrocarbons by GC												
TPI-I-Volatiles (GRO)	03	NA	SW8015C	06/25/2016 02:45	06/25/2016 02:45	BLOD		0.10	0.10	1	mg/L	CL



6/30/2016 2:35:41PM

Certificate of Analysis

Client Name:

EEE Consulting (Mechanicsville)

Client Site I.D.:

Chesterfield County Airport

Submitted To:

Carroll Ellis

Client Sample ID:

C-6

Laboratory Sample ID:

16F0657-03

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Hydrocarbons by GC												
TPH-Semi-Volatiles (DRO)	03	NA	SW8015C	06/28/2016 14:10	06/28/2016 20:17	BLOD	_	0.300	0.500	1	mg/L	JHV
Surr: Pentacosane	03	85	.3 % 40-160	06/28/2016 1	4:10 06/28/2016 20):17						-



Certificate of Analysis

Client Name:

EEE Consulting (Mechanicsville)

Client Site I.D.:

Chesterfield County Airport

Submitted To:

Carroll Ellis

Client Sample ID:

C-6

Laboratory Sample ID:

Date Issued:

16F0657-03

6/30/2016 2:35:41PM

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Wet Chemistry Analysis												
Nitrate+Nitrite as N	03	NA	SM22 4500-NO3F- 2011	06/24/2016 13:44	06/24/2016 13:44	0.27		0.02	0.10	1	mg/L	BBP
Nitrogen, Total	03	NA	Calc.	06/24/2016 13:44	06/24/2016 13:44	0.90		0.20	0.50	1	mg/L	LBH
Phosphorus, Total	03	7723-14-0	SM22 4500PE-201 1	06/27/2016 10:00	06/27/2016 10:00	0.21		0.01	0.02	1	mg/L	MLG
TKN as N	03	7727-37-9	EPA351.2 R2.0	06/23/2016 15:53	06/23/2016 15:53	0.63		0.20	0.50	1	mg/L	LBH
TSS	03	NA	SM22 2540D-2011	06/24/2016 10:00	06/24/2016 10:00	11.2		1.0	1.0	1	mg/L	DLF



6/30/2016 2:35:41PM

Certificate of Analysis

Client Name:

EEE Consulting (Mechanicsville)

Client Site I.D.:

Chesterfield County Airport

Submitted To:

Carroll Ellis

Client Sample ID:

C-7

Laboratory Sample ID:

16F0657-04

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Hydrocarbons by GC												
TPH-Volatiles (GRO)	04	NA	SW8015C	06/25/2016 03:07	06/25/2016 03:07	BLOD		0.10	0.10	1	mg/L	CL



6/30/2016 2:35:41PM

Certificate of Analysis

Client Name:

EEE Consulting (Mechanicsville)

Client Site I.D.:

Chesterfield County Airport

Submitted To:

Carroll Ellis

Client Sample ID:

C-7

Laboratory Sample ID:

16F0657-04

Date Issued:

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Semivolatile Hydrocarbons by GC												
TPH-Semi-Volatiles (DRO)	04	NA	SW8015C	06/28/2016 14:10	06/28/2016 20:43	BLOD		0.300	0.500	1	mg/L	JHV
Surr: Pentacosane	04	84.	0 % 40-160	06/28/2016 1	4:10 06/28/2016 20):43						



Certificate of Analysis

Client Name:

EEE Consulting (Mechanicsville)

Client Site I.D.:

Chesterfield County Airport

04

04

7727-37-9

NA

EPA351.2

R2.0

SM22

2540D-2011

06/23/2016 15:53

06/24/2016 10:00

Submitted To:

Carroll Ellis

Client Sample ID:

TKN as N

TSS

C-7

Date Issued:

16F0657-04

0.20

1.0

0.50

1.0

1

6/30/2016 2:35:41PM

Parameter Wet Chemistry Analysis	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Nitrate+Nitrite as N	04	NA	SM22 4500-NO3F- 2011	06/24/2016 13:47	06/24/2016 13:47	0.48		0.02	0.10	1	mg/L	BBP
Nitrogen, Total	04	NA	Calc.	06/24/2016 13:47	06/24/2016 13:47	1.33		0.20	0.50	1	mg/L	LBH
Phosphorus, Total	04	7723-14-0	SM22 4500PE-201 1	06/27/2016 10:00	06/27/2016 10:00	0.21		0.01	0.02	1	mg/L	MLG

06/23/2016 15:53

06/24/2016 10:00

Laboratory Sample ID:

0.85

8.2

LEH

DLF

mg/L

mg/L



Certificate of Analysis

Client Name:

EEE Consulting (Mechanicsville)

Client Site I.D.:

Chesterfield County Airport

Submitted To:

Carroll Ellis

Client Sample ID:

Trip Blank

Date Issued:

6/30/2016 2:35:41PM

Laboratory Sample ID: 16F0657-05

Parameter	Samp ID	CAS	Reference Method	Sample Prep Date/Time	Analyzed Date/Time	Sample Results	Qual	DL	LOQ	DF	Units	Analyst
Volatile Hydrocarbons by GC												
TPH-Volatiles (GRO)	05RE1	NA	SW8015C	06/24/2016 16:39	06/24/2016 16:39	BLOD		0.10	0.10	1	mg/L	CL



Date Issued:

Certificate of Analysis

Client Name:

EEE Consulting (Mechanicsville)

Client Site I.D.:

Chesterfield County Airport

Submitted To:

Carroll Ellis

Volatile Hydrocarbons by GC - Quality Control

6/30/2016 2:35:41PM

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch I	BZF0692 - SW503	0B								
Blank (BZP0092-BLK1)				Prepared & Anal	yzed: 06/24/2016					
TPH-Volatiles (GRO)	BLOD	0.10	mg/L							
LCS (BZF0692-BS1)				Prepared & Anal	yzed: 06/24/2016					
TPH-Volatiles (GRO)	1.11	0.10	mg/L	1.00		111	70-130			
LCS Dup (BZF0692-BSD1)				Prepared & Anal	yzed: 06/24/2016					
TPH-Volatiles (GRO)	1.10	0.10	mg/L	1.00		110	70-130	0.638	20	
Matrix Spike (BZF0692-MS1)	Source	e: 16F0657-01	ı	Prepared & Anal	yzed: 06/24/2016					
TPH-Volatiles (GRO)	1.11	0.10	mg/L	1.00	BLOD	111	70-130			
Matrix Spike Dup (BZF0692-MSD1)	Source	e: 16F0657-01	1	Prepared & Anal	yzed: 06/24/2016					
TPH-Volatiles (GRO)	1.13	0.10	mg/L	1.00	BLOD	113	70-130	1.41	20	



Certificate of Analysis

Client Name:

EEE Consulting (Mechanicsville)

Client Site I.D.:

Chesterfield County Airport

Submitted To:

Carroll Ellis

Semivolatile Hydrocarbons by GC - Quality Control

6/30/2016 2:35:41PM

Date Issued:

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch	BZF0760 - SW351	0C								
Blank (BZF0760-BLK1)				Prepared & Analy	zed: 06/28/2016					
TPH-Semi-Volatiles (DRO)	BLOD	0.500	mg/L							
Surr: Pentacosane	0.202		mg/L	0.250		81.0	40-160			
LCS (BZF0760-B\$1)				Prepared & Analy	zed: 06/28/2016				•	
TPH-Semi-Volatiles (DRO)	3.0	0.500	mg/L	5.00		59.7	40-160			
Surr: Pentacosane	0.137		mg/L	0.250		54.9	40-160			
Matrix Spike (BZF0760-MS1)	Sour	ce: 16F0673-01		Prepared & Analy	zed: 06/28/2016					
TPH-Semi-Volatiles (DRO)	3.8	0.500	mg/L	5.15	BLOD	73.2	40-160			
Surr: Pentacosane	0.211		mg/L	0.258	,	81.8	40-160			
Matrix Spike Dup (BZF0760-MSD1)	Sour	ce: 16F0673-01		Prepared & Analy	zed: 06/28/2016					
TPH-Semi-Volatiles (DRO)	4.0	0.500	mg/L	5.15	BLOD	78.1	40-160	6.41	20	
Surr: Pentacosane	0.215		mg/L	0.258		83.3	40-160			



Certificate of Analysis

Client Name:

EEE Consulting (Mechanicsville)

Client Site I.D.:

Chesterfield County Airport

Submitted To:

Carroll Ellis

Date Issued:

6/30/2016 2:35:41PM

Wet Chemistry Analysis - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
	BZF0661 - No Pre	p Wet Chem	,							
Blenk (BZF0661-BLK1)				Prepared & Analy	zed: 06/24/2016					
TSS	BLOD	1.0	mg/L							
LCS (BZF0661-BS1)				Prepared & Analy	zed: 06/24/2016					
TSS	107	1.0	mg/L	100		107	80-120			
Duplicate (BZF0661-DUP1)	Source	e: 16F0577-01		Prepared & Analy	zed: 06/24/2016					
TSS	293	1.0	mg/L		289			1.37	30	
Duplicate (BZF0661-DUP2)	Source	e: 16F0639-01	I	Prepared & Analy	zed: 06/24/2016					
TSS	233	1.0	mg/L		230			1.30	30	
Batch	BZF0662 - No Pre	p Wet Chem								
Blank (BZF0662-BLK1)				Prepared & Analy	zed: 06/24/2016					
Nitrate+Nitrite as N	BLOD	0.10	mg/L							
LCS (BZF9662-BS1)				Prepared & Analy	zed: 06/24/2016					
Nitrate+Nitrite as N	2.49	0.1	mg/L	2.50		99.7	90-110			
Matrix Spike (BZF0662-MS1)	Source	e: 16F0657-02	2	Prepared & Analy	zed: 06/24/2016					
Nitrate+Nitrite as N	3.32	0.10	mg/L	2.50	0.28	122	90-110			М
Matrix Spike Dup (BZF0662-MSD1)	Source	e: 16F0657-02	2	Prepared & Analy	zed: 06/24/2016					
Nitrate+Nitrite as N	3.27	0.10	mg/L	2.50	0.28	120	90-110	1.34	20	М
Batch	BZF0681 - No Pre	p Wet Chem								
Blenk (BZF0681-BLK1)				Prepared & Analy	zed: 06/23/2016					
TKN as N	BLOD	0.50	mg/L							



Certificate of Analysis

Client Name:

EEE Consulting (Mechanicsville)

Client Site I.D.:

Chesterfield County Airport

Submitted To:

Carroll Ellis

Date Issued:

6/30/2016 2:35:41PM

Wet Chemistry Analysis - Quality Control
Air Water and Soil Laboratories, Inc.

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch	BZF0681 - No Pre	Wet Chem								
LC8 (BZF9681-BS1)				Prepared & Anal	yzed: 06/23/2016					
TKN as N	10.0	0.50	mg/L	10.0		100	90-110			
LCS Dup (BZF0681-BSD1)				Prepared & Anal	yzed: 06/23/2016					
TKN as N	10.2	0.50	mg/L	10.0		102	90-110	2.02	20	
Matrix Spike (BZF0681-MS1)	Source	e: 16F0648-02	2	Prepared & Analy	yzed: 06/23/2016					
TKN as N	10.5	0.50	mg/L	10.0	0.77	97.0	90-110			
Matrix Spike (BZF0681-MS2)	Source: 16F0648-03 Prepared & Analyzed: 06/23/2016									
TKN as N	11.2	0.50	mg/L	10.0	0.65	106	90-110			
Matrix Spike Dup (BZF0681-MSD1)	Source	e: 16F0648-02	2	Prepared & Analy	yzed: 06/23/2016					
TKN as N	10.5	0.50	mg/L	10.0	0.77	97.2	90-110	0.220	20	
Matrix Spike Dup (BZF0681-MSD2)	Source	e: 16F0648-03	3	Prepared & Analy	yzed: 06/23/2016					
TKN as N	10.2	0.50	mg/L	10.0	0.65	95.6	90-110	9.66	20	
Batch (BZF0721 - No Pre	p Wet Chem								
Blank (BZF0721-BLK1)				Prepared & Anal	yzed: 06/27/2016					
Phosphorus, Total	BLOD	0.02	mg/L							
LCS (BZF0721-BS1)				Prepared & Anal	yzed: 06/27/2016					
Phosphorus, Total	0.48	0.02	mg/L	0.500		95.4	80-120			
Matrix Spike (BZF0721-MS1)	Source	e: 16F0666-03	3	Prepared & Analy	yzed: 06/27/2016					
Phosphorus, Total	0.54	0.02	mg/L	0.500	0.06	96.2	80-120			



Certificate of Analysis

Client Name:

EEE Consulting (Mechanicsville)

Client Site I.D.:

Chesterfield County Airport

Submitted To:

Carroll Ellis

6/30/2016 2:35:41PM

Date Issued:

Air Water and Soil Laboratories, Inc.

Wet Chemistry Analysis - Quality Control

Analyte Batch	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Matrix Spike Dup (BZF0721-MSD1) Phosphorus, Total		e: 16F0666-0		Prepared & Anal	yzed: 06/27/2016 0.06	98.6	80-120	2.18	20	



Certificate of Analysis

Date Issued:

6/30/2016 2:35:41PM

Client Name:

EEE Consulting (Mechanicsville)

Client Site I.D.:

Chesterfield County Airport

Submitted To:

Carroll Ellis

Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry An	alysis		Preparation Method:	No Prep Wet Chem	
16F0657-01	500 mL / 500 mL	SM22 2540D-2011	BZF0661	SZF0718	
16F0657-02	500 mL / 500 mL	SM22 2540D-2011	BZF0661	SZF0718	
16F0657-03	500 mL / 500 mL	SM22 2540D-2011	BZF0661	SZF0718	
16F0657-04	950 mL / 950 mL	SM22 2540D-2011	BZF0661	SZF0718	
16F0657-01	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BZF0662	SZF0711	AF60113
16F0657-02	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BZF0662	SZF0711	AF60113
16F0657-03	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BZF0662	SZF0711	AF60113
16F0657-04	5.00 mL / 5.00 mL	SM22 4500-NO3F-2011	BZF0662	SZF0711	AF60113
16F0657-01	25.0 mL / 25.0 mL	EPA351.2 R2.0	BZF0681	SZF0748	AF60118
16F0657-02	25.0 mL / 25.0 mL	EPA351.2 R2.0	BZF0681	SZF0748	AF60118
16F0657-03	25.0 mL / 25.0 mL	EPA351.2 R2.0	BZF0681	SZF0748	AF60118
16F0657-04	25.0 mL / 25.0 mL	EPA351.2 R2.0	BZF0681	SZF0748	AF60118
16F0657-01	25.0 mL / 25.0 mL	SM22 4500PE-2011	BZF0721	SZF0760	AE60087
16F0657-02	25.0 mL / 25.0 mL	SM22 4500PE-2011	BZF0721	SZF0760	AE60087
16F0657-03	25.0 mL / 25.0 mL	SM22 4500PE-2011	BZF0721	SZF0760	AE60087
16F0657-04	25.0 mL / 25.0 mL	SM22 4500PE-2011	BZF0721	SZF0760	AE60087
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Semivolatile Hydro	ocarbons by GC		Preparation Method:	SW3510C	
16F0657-01	940 mL / 1.00 mL	SW8015C	BZF0760	SZF0827	AJ50157
16F0657-02	960 mL / 1.00 mL	SW8015C	BZF0760	SZF0827	AJ50157
16F0657-03	960 mL / 1.00 mL	SW8015C	BZF0760	SZF0827	AJ50157
16F0657-04	970 mL / 1.00 mL	SW8015C	BZF0760	SZF0827	AJ50157
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID



6/30/2016 2:35:41PM

Date Issued:

Certificate of Analysis

Client Name:

EEE Consulting (Mechanicsville)

Client Site I.D.:

Chesterfield County Airport

Submitted To:

Carroll Ellis

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Hydrocarbo	ns by GC		Preparation Method:	SW5030B	
16F0657-01	5.00 mL / 5.00 mL	SW8015C	BZF0692	SZF0733	AF60093
16F0657-02	5.00 mL / 5.00 mL	SW8015C	BZF0692	SZF0733	AF60093
16F0657-03	5.00 mL / 5.00 mL	SW8015C	BZF0692	SZF0733	AF60093
16F0657-04	5.00 mL / 5.00 mL	SW8015C	BZF0692	SZF0733	AF60093
16F0657-05	5.00 mL / 5.00 mL	SW8015C	BZF0692	SZF0733	AF60093
6F0657-05RE1	5.00 mL / 5.00 mL	SW8015C	BZF0692	SZF0733	AF60093



Certificate of Analysis

EEE Consulting (Mechanicsville)

Chesterfield County Airport Client Site I.D.:

Carroll Ellis Submitted To:

Client Name:

6/30/2016 2:35:41PM Date Issued:

Certified Analyses included in this Report

Analyte	Certifications
EPA351.2 R2.0 in Non-Potable Water	
TKN as N	VELAP,NC
SM22 2540D-2011 in Non-Potable Water	
TSS	VELAP,NC
SM22 4500-NO3F-2011 in Non-Potable Water	
Nitrate+Nitrite as N	VELAP
SM22 4500PE-2011 in Non-Potable Water	
Phosphorus, Total	VELAP,NC
SW8015C in Non-Potable Water	
TPH-Semi-Volatiles (DRO)	VELAP,NC,WVDEP
TPH-Volatiles (GRO)	VELAP,NC,WVDEP

Code	Description	Cert Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2016
NC	North Carolina DENR	495	12/31/2016
PADEP	NELAC-Pennsylvania	001	10/31/2016
VELAP Certificate #4337	NELAC-Virginia Certificate #8271	460021	06/15/2017
WVDEP	West Virginia DEP	350	11/30/2016



Certificate of Analysis

EEE Consulting (Mechanicsville)

Client Site I.D.: Chesterfield County Airport

Submitted To: Carroll Ellis

Client Name:

Date Issued: 6/30/2016 2:35:41PM

Qualifiers and Definitions

М Matrix spike recovery is outside established acceptance limits Relative Percent Difference RPD Qua! Qualifers -RE Denotes sample was re-analyzed LOD Limitof Detection BLOD Below Limit of Detection LOQ Limit of Quantitation DF Dilution Factor Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library . A TIC TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.



1941 REYMET ROAD RICHMOND, VIRGINIA 23237 (804) 358-8295 PHONE (804)358-8297 FAX **Chain of Custody** Form #: D1331 Rev. 1.0

Effective: Feb 14, 2014

LABORAT	ORIE	ES, I	NC.				CHAI	N OF	CUS	TO	DY								PAGEOF_	
COMPANY NAME: EEE C	onsu	146	Mi	Inc.	IN/	VOICE TO	EE	ECO	nsulti	na	In								ell Conty limpor	+1542
CONTACT: Cornell Ellis	皿		1.			VOICE CC		: Gi	moll	5/	is TI	T	SIT	E NAN	ME: Chest	erffe	1d Co	unti	Airport	
ADDRESS: 8525 Bell Cre		B	oad		IN	VOICE AD	DRESS	: 50	me.				PR	OJECT	NUMBE	R: 15-	-170	1	. (
PHONE #: 804-442-3330	ext	2	25		IN'	VOICE PH	ONE #:	90	me				P.C). #:						
FAX#:			E	EMAIL: (ellis	pere-	onsult	lina.	com				Pre	treatm	ent Progra	am:				
Is sample for compliance report	ing?	YI	ES	NO		Is sample	from a	chlori	nated s	upp	ly?	YES	(NO)			PI	WS I.D.	. #:		
SAMPLER NAME (PRINT): Ca	mol	1 8	2/1/5	皿	SA	MPLER S	IGNATI	JRE:	Carron	le	- Ell	61	T			Tu	ırn Arc	ound	Time: Handa Day	(s)
Matrix Codes: WW=Waste Water/Storm W	ater G	W=G	round	Water DW=	Drinking	Water S=Soil	/Solids O	R=Orga	nic A=Air	WP:	-Wipe O	T=Other_							COMMENTS	3
			ls)									AN	ALYSI	S/(PR	ESERVA	TIVE)			Preservative Codes: N=Nit C=Hydrochloric Acid S=Suffi	
			lved Meta	<u>e</u>	e e	<u>o</u>	<u>e</u>			SJ				Harten &		T			H=Sodium Hydroxide A=Ar Acid Z=Zinc Acetate T=S Thiosulfate M=Methan	lodium
CLIENT SAMPLE I.D.	Grab	Composite	Field Fiftered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	DRO	GRO	TSS	Total Without	Total Phosphoraus				PLEASE NOTE PRESERVA INTERFERENCE CHECKS (RATE (L/min)	
1) (-2	V					6/23/16	1.26		W/W	16	V	V	U	V	V					
2) (-3	V					1	9:34		WW	6	V	V	V	V	V	-	-	\rightarrow		
3) C-6	17	-	H				9:Dam		Wa/	6	V	V	V	V	V	_	-	-		*
4) C-7 5) MS-Ch	11	-	H				9:16am		MM	6	V	10/10	040	MAD		+	-	-		
5) MS-C6 6) MSD-C6	V	+	\forall			1	9:13am		WW	i	V	MAAN	M	DAVI		_		-		
7) Field Blank							1,12411		to le	2		V								
8)														,						
9)																				
10)									71145											
RELINQUISHED:	6/2	23/4	TIME TIME	RECEIV	WHO	0	6/2	DATE /	12:44	Leve		□ □	LAB	EE)	Ε				иР <u>Ч.8</u> °С БF0657	
ELINQUISHED:	DAT	TE /	TIME	RECEIV	ED:			DATE /	TIME	Leve		0			sterfield l: 06/23/					

Tafral Middleton

From: Tafral Middleton [tmiddleton@awslabs.com]

Sent: Thursday, June 23, 2016 3:39 PM

To: 'cellis@eee-consulting.com'

Cc: 'Katrina Cooke'

Subject: 16F0657/Chesterfield County Airport

Hello Carroll,

This is to notify you that:

1) the samples were logged on the standard AWS 5 day TAT

There was no Field Blank received

3) The received Trip Blank (15 Feb 2016/11.10) was added to the work order.

There will be a note on the Sample Conditions Checklist.

Please feel free to contact the lab with any questions or comments.

Thank you,

Tafral Middleton

Air, Water and Soil Laboratories, Inc. 1941 Reymet Road Richmond, VA 23237 (804) 358-8295

Confidentiality Notice

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EEE

16F0657

Chesterfield Airport

Recd: 06/23/2016 Due: 06/30/2016

v130325002



Order ID 16F0657

Sample Preservation Log

Sample Preservation Log Form #: F1301 Rev # 5.0 Effective: Jun 16, 2016 Page 1 of 1

Date Performed: 23 June 2014

Analyst Performing Check: P/A = Present/Absent SVOC Pesticide Sulfide Phos, Tot NO3+NO2 Metals Cyanide Ammonia TKN DRO (8081/608) (8270/625) Has Received Sample ID 01 02 03 03 B 03 04 A 01 10 03 04 NaOH ID: CrVI preserved date/time:_____ Analyst Initials: HNO3 ID:

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED F1301 Sample Preservation Log 5_0.xls



6/30/2016 2:35:41PM

Date Issued:

Certificate of Analysis

Client Name:

EEE Consulting (Mechanicsville)

Client Site I.D.:

Chesterfield County Airport

Submitted To:

Carroll Ellis

Sample Conditions Checklist

Samples Received at:	4.80°C
How were samples received?	Walk In
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	No
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C) or received on ice and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	Yes
Are all volatile organic and TOX containers free of headspace?	Yes
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	Yes
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.	Yes

See attached email. KLC 6/25/2016

DEPARTMENT OF ENVIRONMENTAL QUALITY VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

(REGIONAL OFFICE)

Piedmont Regional Office

4949-A Cox Road Glen Allen

VA 23060

(804)527-5020

TYPE: STORM WATER
BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS 7511 Airfield Dr

Richmond

VA 23237

FACILITY LOCATION 7511 Airfield Dr

Richmond

VA 23237

CONTACT PERSON Patrick Driscoll

TELEPHONE

804-768-7720

VAI	R051129			002				
PERM	IT NUMBE	R	OUTI	FALL	NO.			
Check		M	ONITO	RING	PERIO	D		
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY	
	2014	July	1		2014	December	31	
	2015	January	1		2015	June	30	
	2015	July	1		2015	December	31	
	2016	January	1		2016	June	30	
V	2016	July	1		2016	December	31	
	2017	January	1		2017	June	30	
	2017	July	1		2017	December	31	
	2018	January	1		2018	June	30	
	2018	July	1		2018	December	31	
	2019	January	1		2019	June	30	

PARAMETER				NO.	SAMPLE		
V-2-0-0-0		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	ITPE
004 TSS	REPORTED	*****	******	6.8	MG/L	0	GRAB
	BENCHMARK CONC	******	******	100	MG/L		GRAB
257 PETROLEUM	REPORTED	******	******	<ql< td=""><td>MG/L</td><td>0</td><td>GRAB</td></ql<>	MG/L	0	GRAB
HYDROCARBONS, TOTAL R	BENCHMARK CONC	*******	*******	15	MG/L	1 '	GRAB

STORM INFORM					
DATE	YR	МО	DAY		
	16	9	19		
DURATION	HRS	N	IIN		
	15	30			
RAINFALL TOTAL (IN.)	1.6	64			
PRECEDING	DAY	S	HRS		
EVENT	11		0		

Comments:

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS MERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE 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 AMARE THAT THERE ARE SIGNIFICANT PENALTIES POR SUBMITTING FALSE INFORMATION,

PRINCIPAL EXECUT	DATE				
Clay Bowles	Sul	عادد	11	15	
TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY	

This report is required by your VPDES permit and by law. (See, e.g., the Code of Virginia of 1950 §62.1-44.5 and 9 VAC 25-31-50.) Failure to report or failure to report truthfully can result in civil penalties of \$32,500 per violation, per day and felony prosecutions which can carry a 15 year term.

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DEPARTMENT OF ENVIRONMENTAL QUALITY VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

VAR051129

2019

January

(REGIONAL OFFICE)

Piedmont Regional Office

4949-A Cox Road

Glen Allen

VA 23060

(804)527-5020

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr Richmond

7511 Airfield Dr Richmond

VA 23237

23237

CONTACT PERSON Patrick Driscoll

TELEPHONE

FACILITY LOCATION

804-768-7720

PERM	IT NUMBE	R	OUT	FALL	NO.		
Check		Me	ONITO	RING	PERIO	D	
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY
	2014	July	1		2014	December	31
	2015	January	1		2015	June	30
	2015	July	1		2015	December	31
	2016	January	1		2016	June	30
$\overline{\mathbf{V}}$	2016	July	1		2016	December	31
	2017	January	1		2017	June	30
	2017	July	1		2017	December	31
	2018	January	1		2018	June	30
	2018	July	1		2018	December	31

2019

June

003

PARAMETER			NO.	SAMPLE			
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	,
004 TSS	REPORTED	******	*******	28	MG/L	0	GRAB
	BENCHMARK CONC	*******	******	100	MG/L		GRAB
257 PETROLEUM	REPORTED	******	*******	2.016	MG/L	0	GRAB
HYDROCARBONS, TOTAL R	BENCHMARK CONC	******	*******	15	MG/L		GRAB

STORM INFORM			
DATE	YR	МО	DAY
	16	9	19
DURATION	HRS	N	IIN
	15	30	1
RAINFALL TOTAL (IN.)	1.6	54	
PRECEDING	DAY	S	HRS
EVENT	11		0

Comments:

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PRINCIPAL EXECU	ITIVE OFFICER OR AUTHORIZED AGENT	DAT			
Clan Bowkes	See	2016	U	45	
TYPED OR PRINTED NAME	SIGNA FURE	YEAR	MO.	DAY	
TYPED OR PRINTED NAME	SIGNAFIURE	YEAR	MO.		

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DEPARTMENT OF ENVIRONMENTAL QUALITY

VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

VAR051129

2019

January

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

(REGIONAL OFFICE)

Piedmont Regional Office

4949-A Cox Road Glen Allen

VA 23060

(804)527-5020

TYPE: STORM WATER

BENCHMARK MONITORING

PERMITTEE NAME Chesterfield County

FACILITY NAME

Chesterfield County Airport

ADDRESS

7511 Airfield Dr

Richmond

1

VA 23237

FACILITY LOCATION 7511 Airfield Dr

Richmond

VA 23237

CONTACT PERSON Patrick Driscoll

TELEPHONE

804-768-7720

PERM	IT NUMBE	R	OUTI	FALL			
Check		M	ONITO	RING	PERIO	D	
One	YEAR	MONTH	DAY	TO	YEAR	MONTH	DAY
	2014	July	1		2014	December	31
	2015	January	1		2015	June	30
	2015	July	1		2015	December	31
	2016	January	1		2016	June	30
\checkmark	2016	July	1		2016	December	31
	2017	January	1		2017	June	30
	2017	July	1		2017	December	31
	2018	January	1		2018	June	30
	2018	July	1		2018	December	31

006

PARAMETER			NO. EX.	SAMPLE			
		MINIMUM AVERAGE MAXIMUM UNITS		TITLE			
004 TSS	REPORTED	*****	******	5.9	MG/L	0	GRAB
	BENCHMARK CONC	******	******	100	MG/L		GRAB
257 PETROLEUM	REPORTED	******	******	<ql< td=""><td>MG/L</td><td>0</td><td>GRAB</td></ql<>	MG/L	0	GRAB
HYDROCARBONS, TOTAL R	BENCHMARK CONC	******	*******	15	MG/L		GRAB

STORM EVENT INFORMATION								
YR MO DA								
16	9 1							
HRS	М	IN						
15	30							
1.6	54							
DAY	S	HRS						
11		0						
	YR 16 HRS 15 LAY	YR MO 16 9 HRS M 15 30 1.64 DAYS 8						

30

June

2019

Comments:

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OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE
FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE REST
OF MY ENOMIDEDED AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AMARE
THAT THERE ARE SIGNIFICANT PERSALTIES FOR SUBMITTING FALSE INFORMATION,

PRINCIPAL EXECU	DATE				
Clay Bowles	Del	206	1(15	
TYPED OR PRINTED NAME	SIGNĂTURE	YEAR	MO.	DAY	

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102-A Woodwinds Industrial Court Cary NC, 27511

Phone: 919.467.3090 FAX: 919.467.3515

Tuesday, September 27, 2016 Golder Associates (GO005)

Attn: Martha Smith

2108 W. Laburnum Ave., Suite 200

Richmond, VA 23227

RE: Laboratory Results for

Project Number: 1660267.100, Project Name/Desc: Chesterfield Co- Airport

ENCO Workorder(s): CZ12068

Dear Martha Smith,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, September 20, 2016.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sphane /

Sincerely,

Stephanie Franz

Project Manager

Enclosure(s)

FINAL



PROJECT NARRATIVE

Date:

27 September 2016

Client:

Golder Associates (GO005)

Project: Lab ID: Chesterfield Co- Airport CZ12068

Overview

Environmental Conservation Laboratories, Inc. (ENCO) analyzed all submitted samples in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by ENCO are discussed in the QC Remarks section below.

Quality Control Samples

No Comments

Quality Control Remarks

The GRO surrogate spike recovery of 2,5-Dibromotoluene was outside of control limits for sample Outfall 003 due to matrix interference (co-elution).

Other Comments

All samples received under this work order arrived in acceptable conditions. The samples were not checked for residual chlorine, as it is not required. Outfalls 001, 004, 007, 008, and 009 were not submitted for analysis.

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative or in the Flags/Notes and Definitions section of the report.

Released By:

Environmental Conservation Laboratories, Inc.

Stephanie Franz Project Manager



SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: Outfall 002		Lab ID:	CZ12068-01	Sampled:	09/19/16	09:30	Received:	09/20/16	15:00
Parameter	Hold Date/Time(s)		Prep Date/	Time(s)		Analysis Date/	Time(s)		
EPA 8015C	09/26/16	11/01/16	09/22/16	08:39		09/22/16 19:39			
EPA 8015C	10/03/16		09/22/16	09:14		09/22/16 18:47			
SM 2540D-1997	09/26/16		09/22/16	10:45		09/22/16 10:45			
Client ID: Outfall 003		Lab ID:	CZ12068-02	Sampled:	09/19/16	10:00	Received:	09/20/16	15:00
Parameter	Hold Date/Time(s)		Prep Date/	Time(s)		Analysis Date/	Time(s)		
EPA 8015C	09/26/16	11/01/16	09/22/16	08:39		09/22/16 20:16			
EPA 8015C	10/03/16		09/22/16	09:14		09/22/16 19:18			
SM 2540D-1997	09/26/16		09/22/16	10:45		09/22/16 10:45			
Client ID: Outfall 006		Lab ID:	CZ12068-03	Sampled:	09/19/16	10:20	Received:	09/20/16	15:00
Parameter	Hold Date/Time(s)		Prep Date/	Time(s)		Analysis Date/	Time(s)		
EPA 8015C	09/26/16	11/01/16	09/22/16	08:39		09/22/16 20:53			
EPA 8015C	10/03/16		09/22/16	09:14		09/22/16 19:50			
SM 2540D-1997	09/26/16		09/22/16	10:45		09/22/16 10:45			
Client ID: Trip Blank		Lab ID:	CZ12068-04	Sampled:	09/19/16	09:30	Received:	09/20/16	15:00
<u>Parameter</u>	Hold Date/Time(s)		Prep Date/	Time(s)		Analysis Date/	Time(s)		
EPA 8015C	10/03/16		09/22/16	09:14		09/22/16 20:21			



SAMPLE DETECTION SUMMARY

Client ID: Outfall 002			Lab ID:	CZ12068-01			
Analyte	Results	Flag	MDL	POL	Units	Method	Notes
Total Suspended Solids	6.8		2.9	2.9	mg/L	SM 2540D-1997	
Client ID: Outfall 003			Lab ID:	CZ12068-02			
Analyte	Results	Flag	MDL	POL	Units	Method	Notes
DRO (C10-C28)	1.7		0.060	0.10	mg/L	EPA 8015C	
GRO (C6-C10)	0.316		0.025	0.055	mg/L	EPA 8015C	
Total Suspended Solids	28		12	12	mg/L	SM 2540D-1997	
Client ID: Outfall 006			Lab ID:	CZ12068-03			
Analyte	Results	Flag	MDL	POL	Units	Method	Notes
Total Suspended Solids	5.9		2.5	2.5	mg/L	SM 2540D-1997	



ANALYTICAL RESULTS

Description: Outfall 002

Lab Sample ID: CZ12068-01

Received: 09/20/16 15:00

Matrix: Surface Water

Sampled: 09/19/16 09:30

Project: Chesterfield Co- Airport

Sampled By: Martha Smith/ Ashley Kean

Work Order: CZ12068

Work Order: CZ12068

Analyzed

Notes

By

Gasoline Range Organics by GC

~ - ENCO Cary certified analyte [VELAP 460146]

Batch Analyte [CAS Number] Results Flag Units DE MDL Method Analyzed By Notes GRO (C6-C10)^ 0.025 U ma/L 1 0.025 0.055 6122007 **EPA 8015C** 09/22/16 18:47 BAM

Method Surrogates Results DF Spike Lvl % Rec % Rec Limits Batch Analyzed BY Notes 2,5-Dibromotoluene 0.0876 0.100 88 % 70-130 6122007 EPA 8015C 09/22/16 18:47 BAM 1

Diesel Range Organics by GC

^ - ENCO Cary certified analyte [VELAP 460146]

Analyte [CAS Number] MDL POL Results Flag Units DF **Batch** Method **Analyzed** By Notes DRO (C10-C28)^ 0.068 U mg/L 1 0.068 0.11 6122002 **EPA 8015C** 09/22/16 19:39 MWC

Surrogates Results DF Spike Lvl % Rec % Rec Limits Batch Method Analyzed BY Notes o-Terphenyl 0.041 1 0.0568 72 % 41-126 6122002 EPA 8015C 09/22/16 19:39 MWC

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [VELAP 460146]

Analyte [CAS Number] Results Flag Units DF MDL POL **Batch** Method **Analyzed** By Notes 6122012 SM 2540D-1997 09/22/16 10:45 MMR Total Suspended Solids^ 6.8 1 2.9 2.9 ma/L

Lab Sample ID: CZ12068-02 Received: 09/20/16 15:00 Description: Outfall 003

Matrix: Surface Water Sampled: 09/19/16 10:00

Results

Project: Chesterfield Co- Airport Sampled By: Martha Smith/ Ashley Kean

Units

Flag

Gasoline Range Organics by GC

^ - ENCO Cary certified analyte [VELAP 460146]

Analyte [CAS Number]

6122007 EPA 8015C 0.316 1 0.025 0.055 09/22/16 19:18 BAM GRO (C6-C10)^ mg/L Surrogates Results DE Spike Lvl % Rec % Rec Limits Batch Method Analyzed BY Notes 6122007 EPA 8015C QS-06 2,5-Dibromotoluene 0.160 1 0.100 160 % 70-130 09/22/16 19:18 BAM

DF

MDL

POL

Batch

Method

Diesel Range Organics by GC

- ENCO Cary certified analyte [VELAP 460146]

Analyte [CAS Number] Results Flag Units DF MDL POL Batch Method **Analyzed** By Notes DRO (C10-C28)^ 6122002 EPA 8015C 09/22/16 20:16 1.7 mg/L 0.060 MWC Surrogates Results DF Spike Lvl % Rec % Rec Limits Batch Method Analyzed BY Notes o-Terphenyl 0.044 0.0532 82 % 41-126 6122002 EPA 8015C 09/22/16 20:16 MWC

Classical Chemistry Parameters

- ENCO Cary certified analyte [VELAP 460146]

Analyte [CAS Number] Results Units DF MDL POL **Batch** Method **Analyzed** By Notes Flag 09/22/16 10:45 MMR Total Suspended Solids^ 28 12 12 6I22012 SM 2540D-1997 mg/L 1



ANALYTICAL RESULTS

Description: Outfall 006

Lab Sample ID: CZ12068-03

Received: 09/20/16 15:00

Matrix: Surface Water

Sampled: 09/19/16 10:20

Sampled By: Martha Smith/ Ashley Kean

Work Order: CZ12068

Gasoline Range Organics by GC

Project: Chesterfield Co- Airport

^ - ENCO Cary certified analyte [VELAP 460146]

Analyte [CAS Number] Results Units Flag

GRO (C6-C10)^

0.025 U mg/L

DF

1

DF 1

MDL POL 0.025 0.055

Batch Method 6122007 **EPA 8015C**

Analyzed 09/22/16 19:50

Notes By BAM

Results

% Rec

% Rec Limits

Batch

Analyzed

Surrogates 2,5-Dibromotoluene

0.0873

Spike Lvl 0.100 87 %

70-130

6122007

Method EPA 8015C

09/22/16 19:50

BY Notes

Diesel Range Organics by GC

^ - ENCO Cary certified analyte [VELAP 460146]

Analyte [CAS Number] DRO (C10-C28)^

Results 0.060

Flag Units U mg/L DF 1

MDL POL 0.060 0.10

Batch Method 6122002 EPA 8015C

Analyzed 09/22/16 20:53

By MWC

BAM

Notes

Surrogates o-Terphenyl

Results 0.039

DE Spike Lvl 0.0515 1

% Rec 75 %

% Rec Limits Batch 41-126 6122002

Method EPA 8015C

Analyzed 09/22/16 20:53 BY

Notes MWC

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [VELAP 460146]

Analyte [CAS Number] Total Suspended Solids^ Results 5.9

Flag Units mg/L DF

MDL POL 2.5 2.5

Batch 6122012

Method SM 2540D-1997

Analyzed 09/22/16 10:45

By Notes MMR

Lab Sample ID: CZ12068-04

Received: 09/20/16 15:00

Description: Trip Blank Matrix: water

Sampled: 09/19/16 09:30

Work Order: CZ12068

Project: Chesterfield Co- Airport

Sampled By: ENCO

Gasoline Range Organics by GC

^ - ENCO Cary certified analyte [VELAP 460146]

Analyte [CAS Number] GRO (C6-C10)^

Results 0.025

Flag U

DF

MDL 1 0.025

POL 0.055

Batch 6122007

Method **Analyzed** EPA 8015C 09/22/16 20:21

By BAM

Notes

Surrogates 2,5-Dibromotoluene Results 0.0845

DF Spike Lvl 1 0.100

Units

mg/L

% Rec 84 %

% Rec Limits 70-130

Batch 6122007

Method EPA 8015C

Analyzed 09/22/16 20:21

BY Notes BAM



QUALITY CONTROL DATA

Batch 6I22007 - EPA 5030	ne e													
Blank (6I22007-BLK1)					Prepared: 09/22/2016 09:14 Analyzed: 09/22/2016 16:43									
					Spike	Source		%REC		RPD				
Analyte	Result	Flag	POL	Units	Level	Result	%REC	<u>Limits</u>	RPD	Limit	Notes			
GRO (C6-C10)	0.025	U	0.055	mg/L			4-							
2,5-Dibromotoluene	0.0869			mg/L	0.100	+ 00/00/00/	87	70-130						
LCS (6I22007-BS1)					Prepare	ed: 09/22/201	6 09:14 Anal	yzed: 09/22/	2016 16:11					
	B11		no.	H-h-	Spike	Source		%REC		RPD				
Analyte	Result 0.359	Flag	POL 0.055	Units ma/l	0.500	Result	%REC 72	<u>Limits</u>	RPD	Limit	Notes			
GRO (C6-C10)			0.055	mg/L				58-152						
2,5-Dibromotoluene	0.0859			mg/L	0.100	1 00/00/00/	86	70-130	2015 10 11					
Matrix Spike (6122007-MS1)			_		Prepare	ed: 09/22/201	6 09:14 Anal	yzed: 09/22/	2016 17:14					
Source: CZ14274-08					Spike	Source		%REC		RPD				
Analyte	Result	Flag	POL	Units	Level	Result	%REC	<u>Limits</u>	RPD	Limit	Notes			
GRO (C6-C10)	0.389		0.055	mg/L	0.500	0.025 U	78	20-185						
2,5-Dibromotoluene	0.102			mg/L	0.100		102	70-130			-			
Matrix Spike Dup (6122007-1	MSD1)				Prepare	ed: 09/22/201	6 09:14 Anal	yzed: 09/22/	2016 17:45		-			
Source: CZ14274-08					Spike	Source		%REC		RPD				
Analyte	Result	Flag	POL	Units	Level	Result	%REC	Limits	RPD	Limit	Notes			
GRO (C6-C10)	0.351		0.055	mg/L	0.500	0.025 U	70	20-185	10	26				
2,5-Dibromotoluene	0.0853			mg/L	0.100		85	70-130						
Diesel Range Organics by GC -	Quality Contro	ı									-			
Batch 6122002 - EPA 3510	c													
Blank (6I22002-BLK1)					Prepare	ed: 09/22/201	6 08:39 Anal	yzed: 09/22/	2016 17:08	3.3				
					Spike	Source		%REC		RPD				
Analyte	Result	Flag	POL	Units	Level	Result	%REC	<u>Limits</u>	RPD	Limit	Notes			
DRO (C10-C28)	0.060	U	0.10	mg/L	0.0500		47	44.484		_				
p-Terphenyl	0.043			mg/L	0.0500		87	41-126	2015 17 15					
LCS (6I22002-BS1)				_	Prepare	ed: 09/22/201	6 08:39 Anal	yzed: 09/22/	2016 17:46					
					Spike	Source		%REC		RPD				
Analyte	Result	Flag	POL	Units	Level	Result	%REC	Limits	RPD	Limit	Notes			
	0.42		0.10	mg/L	1.00		42	10-108						
DRO (C10-C28)					0.0500		80	41-126						
p-Terphenyl	0.040			mg/L	0.0500						_			
P-Terphenyl Matrix Spike (6I22002-M51)				mg/L		ed: 09/22/201	6 08:39 Anal	yzed: 09/22/7	2016 18:24					
p-Terphenyl				mg/L	Prepare		6 08:39 Anah	yzed: 09/22/7	2016 18:24	RPD				
Matrix Spike (6I22002-MS1) Source: CZ14274-07		Flag	POL	mg/L Units		Source Result	6 08:39 Anah		2016 18:24 RPD	RPD Limit	Notes			
P-Terphenyl Matrix Spike (6I22002-M51)		Flag	POL 0.10		Prepare Spike	Source		%REC			Notes			
Matrix Spike (6I22002-MS1) Source: CZ14274-07 Analyte	Result	Flaq		Units	Spike Level	Source Result	%REC	%REC			Notes			
Matrix Spike (6I22002-MS1) Source: CZ14274-07 Analyte DRO (C10-C28)	Result 0.43 0.041	Flaq		Units mg/L	Spike Level 1.00 0.0500	Source Result	%REC 43 82	%REC Limits 10-108 41-126	RPD		Notes			
Matrix Spike (6122002-MS1) Source: CZ14274-07 Analyte ORO (C10-C28) Or-Terphenyl	Result 0.43 0.041	Flaq		Units mg/L	Spike Level 1.00 0.0500	Source Result 0.060 U	%REC 43 82	%REC Limits 10-108 41-126	RPD		Notes			



QUALITY CONTROL DATA

Diesel Range Organics by GC - Q	uality Contro	ı									
Batch 6122002 - EPA 35100	- Continued										
Matrix Spike Dup (6I22002-M	SD1) Continued	1			Prepan	ed: 09/22/201	6 08:39 Ana	yzed: 09/22/	2016 19:01		
Source: CZ14274-07											
Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC <u>Limits</u>	RPD	RPD Limit	Note
DRO (C10-C28)	0.46		0.10	mg/L	1.00	0.060 U	46	10-108	8	25	
o-Terphenyl	0.043			mg/L	0.0500		86	41-126			
Classical Chemistry Parameters	- Quality Con	trol									
Batch 6I22012 - NO PREP											
Blank (6I22012-BLK1)					Prepare	ed & Analyzed	: 09/22/2016	10:45			
Analyte	Result	Flag	POL	Units	Spike Level	Source	%REC	%REC Limits	RPD	RPD Limit	Note
Total Suspended Solids	2.5	U	2.5	mg/L	Level	Result	TOREC	<u>cimits</u>	KPD	Linit	More
LCS (6I22012-BS1)				Prepared & Analyzed: 09/22/2016 10:45							
					Spike	Source		%REC		RPD	
Analyte	Result	Flag	POL	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Total Suspended Solids	100		2.5	mg/L	100		102	80-120			
Duplicate (6I22012-DUP1)					Prepare	ed & Analyzed	: 09/22/2016	10:45			
Source: CZ01646-01											
Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD	Notes
Total Suspended Solids	120		25	mg/L		120			4	20	
Duplicate (6I22012-DUP2)					Prepare	ed & Analyzed	: 09/22/2016	10:45			
Source: CZ01646-03											
Analyte	Result	Flag	POL	Units	Spike Level	Source	%REC	%REC Limits	RPD	RPD Limit	Note
otal Suspended Solids 80		1.15030	12	mg/L	FEACI	Result 84	TOREC	Littles	4	20	Hote



FLAGS/NOTES AND DEFINITIONS

- **B** The analyte was detected in the associated method blank.
- D The sample was analyzed at dilution.
- The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
- The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
- The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
- MRL Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, mosture content.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence (85% or greater confidence) to make a "tentative identification".
- P Greater than 25% concentration difference was observed between the primary and secondary GC column. The lower concentration is reported.
- QS-06 Surrogate recovery exceeded acceptance criteria due to coelution. Matrix effect confirmed.

-	

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945 (904) 296-3007 Fax (904) 296-6210 (919) 467-3090 Fax (919) 467-3515

4610 Executive Park Court, Sulta 111 Jacksonville, FL 32216-6069

MITTING THE STATE OF THE STATE 102-A Woodwinds Industrial Ct. Cary, NC 27511

WWW.CIILVIGHS.LVIII

Client Na	ame		Project Number		P STREET	A DIVINOU				Re	equested Ana	lyses			Requested Turnarous
Address Golder Associates (GO005) 2108 W. Laburnum Ave., Suite 200 City/ST/Zip Richmond, VA 23227 Tel [804] 358-7900 [804] 358-2900 Sampler(s) Name, Affiliation (Print) Matha Smith / ASky Veane Sampler(s) Signature			1660267.100 Project Name/Desc Chesterfield Co- Airport PO # / Billing Info Reporting Contact Martha Smith Billing Contact ACCOUNTS Payable Site Location / Time Zone					GRO 8015C	Nitrogen Total 353 Catc	NOX 353.2,P,TKN 351.2	Ion See Codes) (Combine as necessary)			Note : Rush requests subject acceptance by the facility Standard Expedited Due _/ Lab Workorder CZ12068	
Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers			Preser	vation (Se	ee Codes) (Co	mbine as necess	ary)		Sample Comments
	Outfall 002 Outfall 003 Outfall 004 Outfall 006 Outfall 007 Outfall 009 Trip Blank	9-19-16	930	GG	SW SW SW SW SW SW SW	6 6 6 6 2	X X X X X X	X X X X X X	X X X X	X X X X X	X X X X X				
	Kit Prepared By LUF Inter/Special Reporting Requirements Ful Cy 8/03 9/15 39/4	Data/Time 9-(5-1/p	Relinquist Relinquist		30		MATERIAL STATES	Date/Time	ile	1435	Received By Received By	2	2	int.	Date/Time P. 2016 (SOO) Date/Time
	المراجع داله صال		Cooler #'s	& Temps on Rece	olpt L	1.92	ON IX D	Ma	C-!		erigi:	C-23	TAR PERMIT	on Upon Rec	A STATE OF THE PARTY OF THE PAR

ENVIRONMENTAL CONSERVATION LABORATORISE, 105,

Chesterfield Airport 7431 Airfield Drive Richmond, VA 23237

Inquiry Number: 5567935.3

February 20, 2019

Certified Sanborn® Map Report



Certified Sanborn® Map Report

02/20/19

Site Name: Client Name:

Chesterfield Airport AECOM

7431 Airfield Drive 12120 Shamrock Plaza Richmond, VA 23237 Omaha, NE 68154

EDR Inquiry # 5567935.3 Contact: Brittany Kirchmann



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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # FFFF-473D-A749

PO# NA

Project Chesterfield Airport

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: FFFF-473D-A749

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✓ Library of Congress

University Publications of America

▼ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Chesterfield Airport

7431 Airfield Drive Richmond, VA 23237

Inquiry Number: 5567935.5

February 21, 2019

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

02/21/19

Site Name: Client Name:

Chesterfield Airport AECOM

7431 Airfield Drive 12120 Shamrock Plaza Richmond, VA 23237 Omaha, NE 68154

Contact: Brittany Kirchmann



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

EDR Inquiry # 5567935.5

<u>Year</u>	<u>Scale</u>	<u>Details</u>	Source
2016	1"=750'	Flight Year: 2016	USDA/NAIP
2012	1"=750'	Flight Year: 2012	USDA/NAIP
2009	1"=750'	Flight Year: 2009	USDA/NAIP
2006	1"=750'	Flight Year: 2006	USDA/NAIP
2000	1"=750'	Flight Date: March 26, 2000	USGS
1994	1"=750'	Acquisition Date: March 12, 1994	USGS/DOQQ
1990	1"=750'	Flight Date: March 27, 1990	USDA
1984	1"=750'	Flight Date: April 02, 1984	USDA
1980	1"=750'	Flight Date: October 13, 1980	USDA
1974	1"=750'	Flight Date: April 01, 1974	USGS
1972	1"=750'	Flight Date: June 12, 1972	USDA
1968	1"=750'	Flight Date: February 26, 1968	USGS
1964	1"=750'	Flight Date: September 06, 1964	USDA
1959	1"=750'	Flight Date: July 07, 1959	USDA
1949	1"=750'	Flight Date: April 10, 1949	USDA
1937	1"=750'	Flight Date: April 23, 1937	USDA

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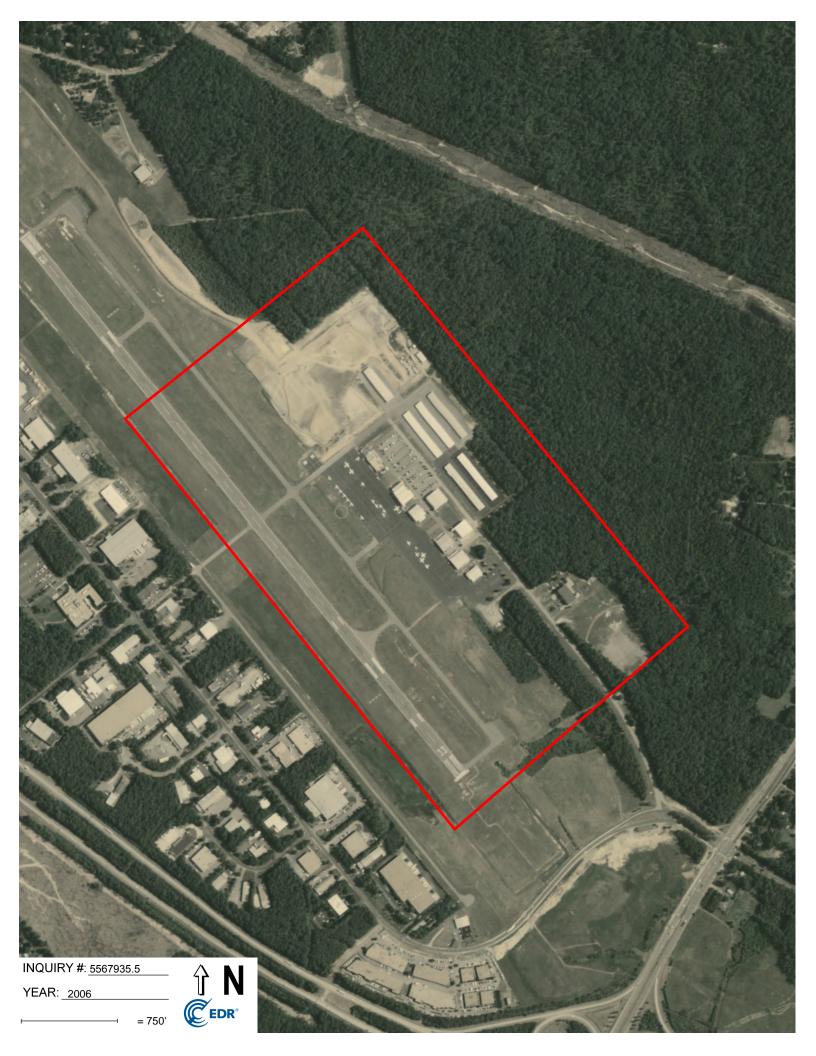
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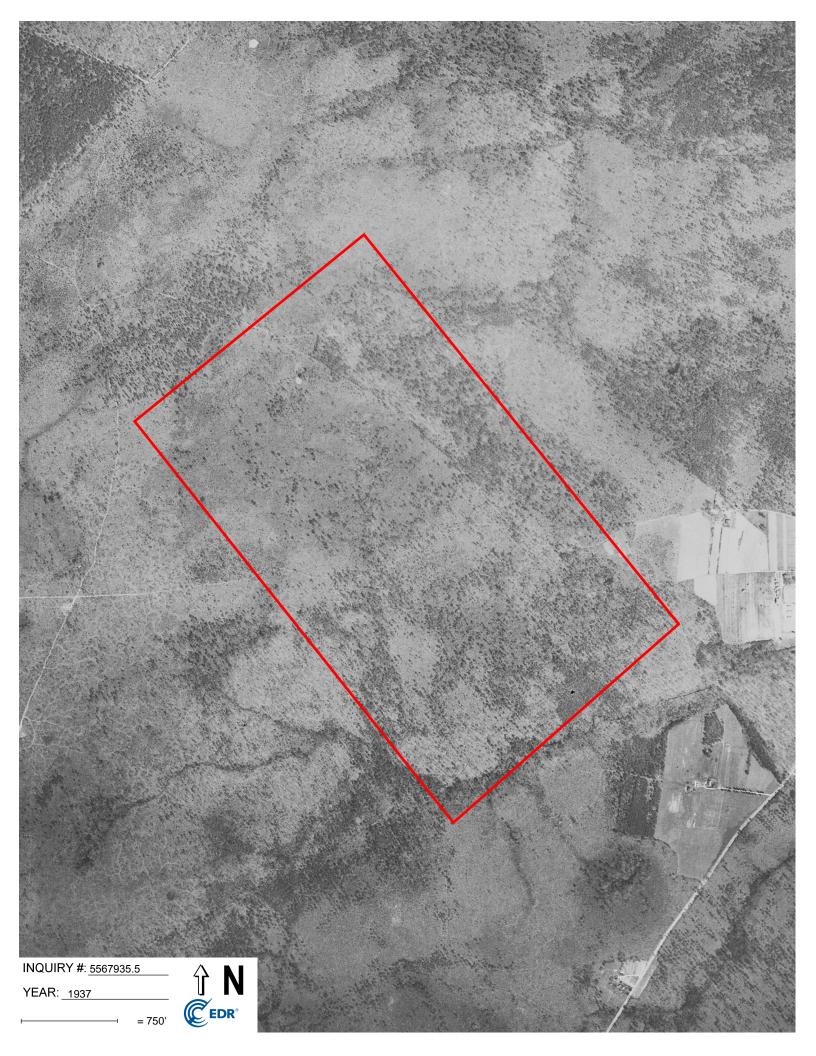












Chesterfield Airport

7431 Airfield Drive Richmond, VA 23237

Inquiry Number: 5567935.2s

February 20, 2019

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

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TARGET PROPERTY INFORMATION

ADDRESS

7431 AIRFIELD DRIVE RICHMOND, VA 23237

COORDINATES

Latitude (North): 37.4066730 - 37° 24' 24.02" Longitude (West): 77.5192000 - 77° 31' 9.12"

Universal Tranverse Mercator: Zone 18 UTM X (Meters): 277026.4 UTM Y (Meters): 4142762.0

Elevation: 199 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5951049 CHESTERFIELD, VA

Version Date: 2013

Northeast Map: 5951067 DREWRYS BLUFF, VA

Version Date: 2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140814 Source: USDA

MAPPED SITES SUMMARY

Target Property Address: 7431 AIRFIELD DRIVE RICHMOND, VA 23237

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	CHESTERFIELD COUNTY	7511 AIRFIELD DR	VA LTANKS, VA UST, VA AST, VA NPDES, VA Financial	Higher	1 ft.
2	AIRPORT FIRE STATION	7300 AIRFIELD DR	VA UST	Lower	1 ft.
A3	CHESTERFIELD COUNTY	7511 AIRFIELD DRIVE	RCRA-SQG	Higher	1 ft.
B4	MARCO MACHINE AND DE	7740 WHITEPINE RD	VA UST	Higher	835, 0.158, WSW
C5	INTEGRATED GLOBAL SE	7600 WHITE PINE RD	RCRA-LQG	Higher	835, 0.158, SSW
D6	QSI LLC	7820 WHITEPINE RD	RCRA-SQG, FINDS, ECHO	Higher	836, 0.158, WSW
7	AMSA NO 90	7710 WHITEPINE RD	RCRA NonGen / NLR	Higher	837, 0.159, SW
E8	AMERICAN FILTRONA CO	7531 WHITEPINE RD	VA UST	Higher	901, 0.171, SSW
C9	CUSTOM METAL FABRICA	7601 WHITEPINE RD	RCRA-CESQG, FINDS, ECHO	Higher	902, 0.171, SSW
F10	ROGERS CORPORATION	8020 WHITEPINE ROAD	RCRA NonGen / NLR, FINDS, ECHO	Higher	910, 0.172, West
F11	ROGERS CORP	8020 WHITEPINE ROAD	PA MANIFEST	Higher	910, 0.172, West
B12	REYNOLDS METALS COMP	7900 REYCAN RD	VA UST	Higher	918, 0.174, WSW
E13	CARDINAL ELECTRIC	7521 WHITEPINE RD	VA UST	Higher	964, 0.183, SSW
E14	OLD DOMINION TRUCK L	7511 WHITEPINE RD	VA UST	Higher	965, 0.183, SSW
B15	ARISTA LABORATORIES	7741 WHITEPINE RD.	RCRA NonGen / NLR, FINDS, ECHO	Higher	965, 0.183, WSW
D16	EVONIK CORPORATION	7801 WHITE PINE RD.	RCRA-SQG, FINDS, ECHO	Higher	969, 0.184, WSW
G17	ENVIRONMENTAL HAZARD	7469 WHITEPINE ROAD	RCRA-CESQG	Higher	1000, 0.189, South
G18	GE INSPECTION SVCS	7445 WHITEPINE RD	RCRA-SQG, FINDS, ECHO	Higher	1008, 0.191, South
H19	MARUCHAN VIRGINIA IN	8101 WHITEPINE RD	RCRA-CESQG, US AIRS	Higher	1164, 0.220, West
H20	MARUCHAN VIRGINIA IN	8101 WHITE PINE RD	PA MANIFEST	Higher	1164, 0.220, West
21	FRITO LAY SALES DIST	8010 WHITEBARK TER	VA LUST, VA LTANKS, VA UST	Higher	1467, 0.278, SW
22	WAREHOUSE DISTRIBUTI	8030 WHITEBARK TERRA	VA LTANKS, VA UST, VA Financial Assurance	Higher	1481, 0.280, SW
23	KROMA USA INCORPORAT	8031 WHITEBARK TER	VA LUST, VA LTANKS, VA UST	Higher	1892, 0.358, SW
24	FLOYD RESIDENCE	7800 COGBILL RD	VA LUST, VA LTANKS	Higher	2141, 0.405, NNW

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list	
NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
NPL LIENS	Federal Superfund Liens
Federal Delisted NPL site li	ist
Delisted NPL	National Priority List Deletions
Federal CERCLIS list	
	Federal Facility Site Information listing
SEMS	Superfund Enterprise Management System
Federal CERCLIS NFRAP s	ite list
SEMS-ARCHIVE	Superfund Enterprise Management System Archive
Federal RCRA CORRACTS	facilities list
CORRACTS	Corrective Action Report
Federal RCRA non-CORRA	CTS TSD facilities list
RCRA-TSDF	RCRA - Treatment, Storage and Disposal
F	de la maiore administrativo
	ols / engineering controls registries
LUCIS	Land Use Control Information System
	Engineering Controls Sites List Sites with Institutional Controls
Federal ERNS list	
ERNS	- Emergency Response Notification System
State- and tribal - equivaler	nt CERCLIS
	This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal

NPL list.

State and tribal landfill and/o	or solid waste disposal site lists
VA SWF/LF	Solid Waste Management Facilities
State and tribal leaking store	age tank lists
INDIAN LUST	Leaking Underground Storage Tanks on Indian Land
State and tribal registered s	torage tank lists
	Underground Storage Tank Listing Underground Storage Tanks on Indian Land
State and tribal institutional	control / engineering control registries
	Engineering Controls Sites Listing Voluntary Remediation Program Database
State and tribal voluntary cle	eanup sites
VA VCPINDIAN VCP	Voluntary Remediation Program Voluntary Cleanup Priority Listing
State and tribal Brownfields	sites
VA BROWNFIELDS	Brownfields Site Specific Assessments
ADDITIONAL ENVIRONMENTAL	RECORDS
Local Brownfield lists	
US BROWNFIELDS	A Listing of Brownfields Sites
Local Lists of Landfill / Solid	d Waste Disposal Sites
	Report on the Status of Open Dumps on Indian Lands
ODI. DEBRIS REGION 9IHS OPEN DUMPS	Torres Martinez Reservation Illegal Dump Site Locations
Local Lists of Hazardous wa	aste / Contaminated Sites
	Delisted National Clandestine Laboratory Register National Clandestine Laboratory Register
Local Land Records	
LIENS 2	CERCLA Lien Information
Records of Emergency Rele	ase Reports

HMIRS..... Hazardous Materials Information Reporting System VA SPILLS...... Prep/Spills Database Listing

VA SPILLS 90..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS....... Formerly Used Defense Sites DOD...... Department of Defense Sites

SCRD DRYCLEANERS...... State Coalition for Remediation of Drycleaners Listing

US FIN ASSUR..... Financial Assurance Information

EPA WATCH LIST..... EPA WATCH LIST

2020 COR ACTION.......... 2020 Corrective Action Program List

TSCA...... Toxic Substances Control Act

TRIS...... Toxic Chemical Release Inventory System

RAATS...... RCRA Administrative Action Tracking System

ICIS...... Integrated Compliance Information System

Act)/TSCA (Toxic Substances Control Act)

COAL ASH EPA...... Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER...... PCB Transformer Registration Database

RADINFO...... Radiation Information Database

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

DOT OPS...... Incident and Accident Data

CONSENT..... Superfund (CERCLA) Consent Decrees

INDIAN RESERV..... Indian Reservations

FUSRAP..... Formerly Utilized Sites Remedial Action Program

UMTRA...... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US MINES...... Mines Master Index File
ABANDONED MINES...... Abandoned Mines

UXO_____Unexploded Ordnance Sites

DOCKET HWC..... Hazardous Waste Compliance Docket Listing FUELS PROGRAM..... EPA Fuels Program Registered Listing

VA TIER 2..... Tier 2 Information Listing

VA UIC...... Underground Injection Control Wells

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

VA RGA LF...... Recovered Government Archive Solid Waste Facilities List

VA RGA LUST...... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
INTEGRATED GLOBAL SE	7600 WHITE PINE RD	SSW 1/8 - 1/4 (0.158 mi.)	C5	20
FPA ID:: \/AD185479953				

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 4 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHESTERFIELD COUNTY EPA ID:: VAR000512889	7511 AIRFIELD DRIVE	0 - 1/8 (0.000 mi.)	А3	17
QSI LLC EPA ID:: VAR000004903	7820 WHITEPINE RD	WSW 1/8 - 1/4 (0.158 mi.)	D6	31
EVONIK CORPORATION EPA ID:: VAD980719553	7801 WHITE PINE RD.	WSW 1/8 - 1/4 (0.184 mi.)	D16	53
GE INSPECTION SVCS	7445 WHITEPINE RD	S 1/8 - 1/4 (0.191 mi.)	G18	61

EPA ID:: VAD988202610

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 3 RCRA-CESQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CUSTOM METAL FABRICA EPA ID:: VAD049967342	7601 WHITEPINE RD	SSW 1/8 - 1/4 (0.171 mi.)	C9	37
ENVIRONMENTAL HAZARD EPA ID:: VAR000510693	7469 WHITEPINE ROAD	S 1/8 - 1/4 (0.189 mi.)	G17	59
MARUCHAN VIRGINIA IN EPA ID:: VAD988221107	8101 WHITEPINE RD	W 1/8 - 1/4 (0.220 mi.)	H19	65

State and tribal leaking storage tank lists

VA LUST: The Leaking Underground Storage Tank Database.

A review of the VA LUST list, as provided by EDR, has revealed that there are 3 VA LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FRITO LAY SALES DIST Database: LUST REG PD, Date of Facility Status: Closed Pollution Complaint #: 19939404 Pollution Complaint #: 19900100	8010 WHITEBARK TER Government Version: 12/02/2014	SW 1/4 - 1/2 (0.278 mi.)	21	73
KROMA USA INCORPORAT Database: LUST REG PD, Date of Facility Status: Closed Pollution Complaint #: 20018201	8031 WHITEBARK TER Government Version: 12/02/2014	SW 1/4 - 1/2 (0.358 mi.)	23	78
FLOYD RESIDENCE Database: LUST REG PD, Date of Facility Status: Closed	7800 COGBILL RD Government Version: 12/02/2014	NNW 1/4 - 1/2 (0.405 mi.)	24	85

Pollution Complaint #: 19994097

VA LTANKS: The Leaking Tanks Database contains current Leaking petroleum tanks. The data comes from the Department of Environmental Quality.

A review of the VA LTANKS list, as provided by EDR, and dated 10/02/2018 has revealed that there are 5 VA LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHESTERFIELD COUNTY Facility Status: Closed CEDS Facility Id: 200000179857 Pollution Complaint #: 20184099	7511 AIRFIELD DR	0 - 1/8 (0.000 mi.)	A1	8
FRITO LAY SALES DIST Facility Status: Closed CEDS Facility Id: 200000171643 Pollution Complaint #: 19900100	8010 WHITEBARK TER	SW 1/4 - 1/2 (0.278 mi.)	21	73
WAREHOUSE DISTRIBUTI Facility Status: Closed CEDS Facility Id: 200000870140 Pollution Complaint #: 20164430	8030 WHITEBARK TERRA	SW 1/4 - 1/2 (0.280 mi.)	22	75
KROMA USA INCORPORAT Facility Status: Closed CEDS Facility Id: 200000163377 Pollution Complaint #: 20018201	8031 WHITEBARK TER	SW 1/4 - 1/2 (0.358 mi.)	23	78
FLOYD RESIDENCE Facility Status: Closed CEDS Facility Id: 200000188938 Pollution Complaint #: 19994097	7800 COGBILL RD	NNW 1/4 - 1/2 (0.405 mi.)	24	85

State and tribal registered storage tank lists

VA UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Quality's Underground Storage Tank Data Notification Information.

A review of the VA UST list, as provided by EDR, and dated 10/30/2018 has revealed that there are 7 VA UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHESTERFIELD COUNTY Tank Status: CURR IN USE Facility Id: 4000010 CEDS Facility ID: 200000179857	7511 AIRFIELD DR	0 - 1/8 (0.000 mi.)	A1	8
MARCO MACHINE AND DE Tank Status: PERM OUT OF USE Facility Id: 4006025 CEDS Facility ID: 200000156568	7740 WHITEPINE RD	WSW 1/8 - 1/4 (0.158 mi.)	B4	19
AMERICAN FILTRONA CO Tank Status: REM FROM GRD Facility Id: 4025914 CEDS Facility ID: 200000164880	7531 WHITEPINE RD	SSW 1/8 - 1/4 (0.171 mi.)	E8	36
REYNOLDS METALS COMP	7900 REYCAN RD	WSW 1/8 - 1/4 (0.174 mi.)	B12	44

Tank Status: CLS IN GRD Facility Id: 4018378 CEDS Facility ID: 200000165364				
CARDINAL ELECTRIC Tank Status: REM FROM GRD Facility Id: 4018769 CEDS Facility ID: 200000163917	7521 WHITEPINE RD	SSW 1/8 - 1/4 (0.183 mi.)	E13	47
OLD DOMINION TRUCK L Tank Status: REM FROM GRD Facility Id: 4001430 CEDS Facility ID: 200000172497	7511 WHITEPINE RD	SSW 1/8 - 1/4 (0.183 mi.)	E14	49
Lower Elevation	Address	Direction / Distance	Map ID	Page
AIRPORT FIRE STATION Tank Status: REM FROM GRD Facility Id: 4023351 CEDS Facility ID: 200000173567	7300 AIRFIELD DR	0 - 1/8 (0.000 mi.)	2	16

VA AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Quality's Aboveground Storage Tank Data Notification Information.

A review of the VA AST list, as provided by EDR, and dated 10/30/2018 has revealed that there is 1 VA AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page	
CHESTERFIELD COUNTY Facility ID: 4000010 CEDS Facility ID: 200000179857	7511 AIRFIELD DR	0 - 1/8 (0.000 mi.)	A1	8	

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/01/2018 has revealed that there are 3 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMSA NO 90 EPA ID:: VAR000005710	7710 WHITEPINE RD	SW 1/8 - 1/4 (0.159 mi.)	7	34
ROGERS CORPORATION EPA ID:: VAR000501528	8020 WHITEPINE ROAD	W 1/8 - 1/4 (0.172 mi.)	F10	41
ARISTA LABORATORIES	7741 WHITEPINE RD.	WSW 1/8 - 1/4 (0.183 mi.)	B15	50

EPA ID:: VAR000501783

PA MANIFEST: Hazardous waste manifest information.

A review of the PA MANIFEST list, as provided by EDR, and dated 12/31/2017 has revealed that there are 2 PA MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ROGERS CORP Generator EPA Id: VAR000501528	8020 WHITEPINE ROAD	W 1/8 - 1/4 (0.172 mi.)	F11	43
MARUCHAN VIRGINIA IN Generator EPA Id: VAD988221107	8101 WHITE PINE RD	W 1/8 - 1/4 (0.220 mi.)	H20	71

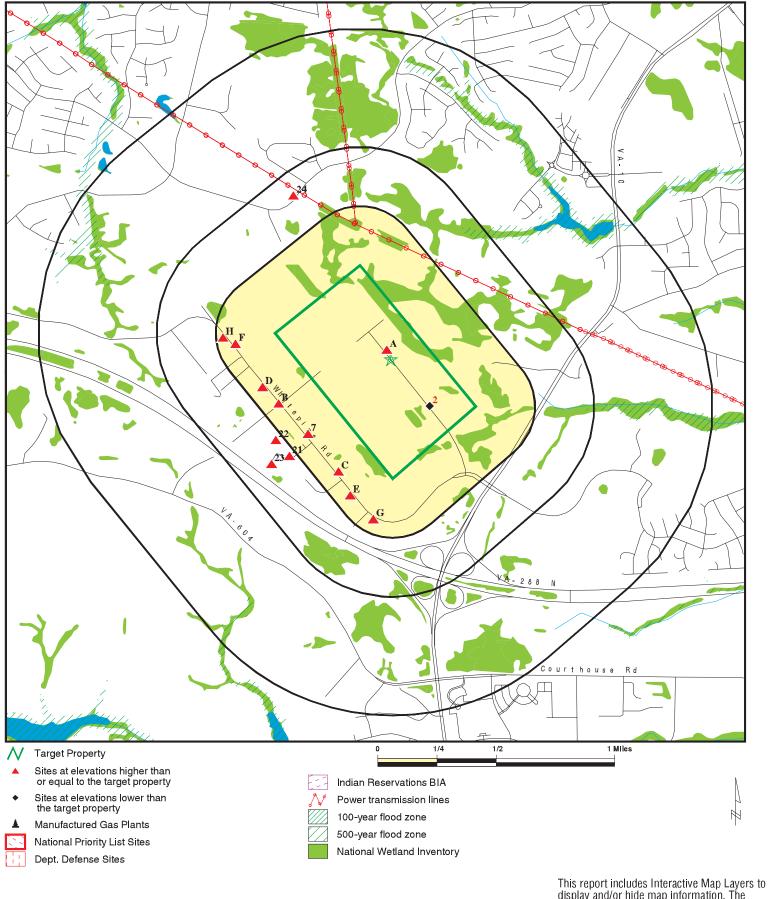
Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

Site Name

RIDGEDALE PARKWAY PROPERTY WATERMARK LAKE VDOT EZ SHOP AIRPORT PUMP STATION Database(s)

VA LUST, VA LTANKS VA LUST, VA LTANKS VA LUST, VA LTANKS VA UST

OVERVIEW MAP - 5567935.2S

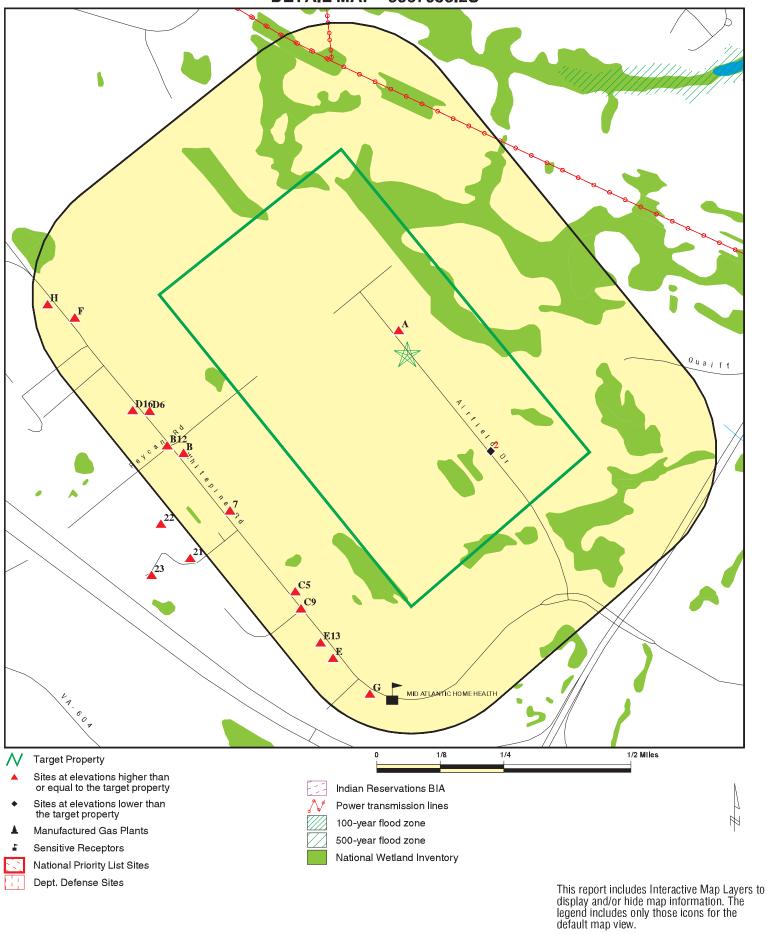


This report includes Interactive Map Layers t display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Chesterfield Airport
ADDRESS: 7431 Airfield Drive
Richmond VA 23237
LAT/LONG: 37.406673 / 77.5192

CLIENT: AECOM
CONTACT: Brittany Kirchmann
INQUIRY #: 5567935.2s
DATE: February 20, 2019 5:08 pm

DETAIL MAP - 5567935.2S



SITE NAME: Chesterfield Airport
ADDRESS: 7431 Airfield Drive
Richmond VA 23237
LAT/LONG: 37.406673 / 77.5192

CLIENT: AECOM
CONTACT: Brittany Kirchmann
INQUIRY #: 5567935.2s
DATE: February 20, 2019 5:11 pm

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENT	TAL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Federal Delisted NPL sit	e list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFRA	P site list							
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRAC	TS facilities li	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD f	acilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generator	rs list							
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 1 0	1 3 3	NR NR NR	NR NR NR	NR NR NR	1 4 3
Federal institutional con engineering controls reg								
LUCIS US ENG CONTROLS US INST CONTROL	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equiva	alent CERCLIS	3						
VA SHWS	N/A		N/A	N/A	N/A	N/A	N/A	N/A
State and tribal landfill a solid waste disposal site								
VA SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking	storage tank l	ists						
VA LUST INDIAN LUST VA LTANKS	0.500 0.500 0.500		0 0 1	0 0 0	3 0 4	NR NR NR	NR NR NR	3 0 5
State and tribal registere	ed storage tan	ık lists						
FEMA UST	0.250		0	0	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
VA UST VA AST INDIAN UST	0.250 0.250 0.250		2 1 0	5 0 0	NR NR NR	NR NR NR	NR NR NR	7 1 0
State and tribal institution control / engineering con		;						
VA ENG CONTROLS VA INST CONTROL	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal voluntary	cleanup site	s						
VA VCP INDIAN VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfie	lds sites							
VA BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMEN	TAL RECORDS							
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / S Waste Disposal Sites	olid							
INDIAN ODI ODI DEBRIS REGION 9 IHS OPEN DUMPS	0.500 0.500 0.500 0.500		0 0 0 0	0 0 0 0	0 0 0 0	NR NR NR NR	NR NR NR NR	0 0 0 0
Local Lists of Hazardous Contaminated Sites	waste /							
US HIST CDL US CDL	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency R	elease Repor	ts						
HMIRS VA SPILLS VA SPILLS 90	TP TP TP		NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 0 0
Other Ascertainable Reco	ords							
RCRA NonGen / NLR FUDS DOD SCRD DRYCLEANERS US FIN ASSUR EPA WATCH LIST 2020 COR ACTION TSCA	0.250 1.000 1.000 0.500 TP TP 0.250		0 0 0 0 NR NR 0 NR	3 0 0 0 NR NR NR 0	NR 0 0 0 NR NR NR NR	NR 0 0 NR NR NR NR	NR NR NR NR NR NR NR	3 0 0 0 0 0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	<u>> 1</u>	Total Plotted
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	Ö
RMP	TP		NR	NR	NR	NR	NR	Ö
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE COAL ASH EPA	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	0.500 TP		0 NR	0 NR	0 NR	NR NR	NR NR	0 0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	Ö
CONSENT	1.000		0	0	0	0	NR	Ö
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS UXO	TP 1.000		NR 0	NR 0	NR 0	NR 0	NR NR	0 0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
VA AIRS	TP		NR	NR	NR	NR	NR	Ö
VA NPDES	TP		NR	NR	NR	NR	NR	0
VA COAL ASH	0.500		0	0	0	NR	NR	0
VA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
VA ENF	TP		NR	NR	NR	NR	NR	0
VA Financial Assurance	TP		NR	NR	NR	NR	NR	0
PA MANIFEST	0.250		0	2	NR	NR	NR	2
VA TIER 2	TP TP		NR	NR	NR	NR	NR	0 0
VA UIC	IP		NR	NR	NR	NR	NR	U
EDR HIGH RISK HISTORICA	L RECORDS							
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERN	IMENT ARCHIV	/ES						
Exclusive Recovered Go	vt. Archives							
VA RGA LF	TP		NR	NR	NR	NR	NR	0
VANGALI	11		INIX	INL	INIX	INIX	INIX	U

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
VA RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals		0	5	17	7	0	0	29

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

Map ID MAP FINDINGS

Direction Distance

Elevation Site Database(s) EPA ID Number

A1 CHESTERFIELD COUNTY AIRPORT VA LTANKS U003682566
7511 AIRFIELD DR VA UST N/A

< 1/8 RICHMOND, VA 23237 1 ft.

VA NPDES
Site 1 of 2 in cluster A
VA Financial Assurance

Relative: LTANKS:
Higher Region: PRO

Actual: CEDS Facility Id: 200000179857
214 ft. Case Status: Closed
Pollution Complaint #: 20184099

Reported: 09/28/2017
Case Closed Date: 10/10/2017
Program: RP Lead
Federally Regulated UST (Y/N): Y
Regulated Petroleum UST (1): Y

Excluded UST (1): Ν Deferred UST (1): N Partially Deferred UST (1): Ν Exempt 1 UST (2): Ν Exempt 2 Heating Oil UST (2): Small Heating Oil AST (2): Ν Regulated AST (3): Ν Unregulated AST (3): Ν Other Y/N: Ν Unknown Y/N:

Other Description: Not reported Heating Oil Category: Not reported

Facility:

 Facility Id:
 4000010

 Facility Type:
 LOCAL

 CEDS Facility ID:
 200000179857

Owner:

Owner Id: 47790

Owner Name: Chesterfield County
Owner Address: 9901 Lori Rd
Owner Address2: Not reported

Owner City, State, Zip: Chesterfield, VA 23832

Owner Type: LOCAL
Number of Active AST: 0
Number of Active UST: 3
Number of Inactive AST: 1
Number of Inactive UST: 0

Owner Id: 31448

Owner Name: VSP - Virginia Department of State Police

Owner Address: PO Box 27472
Owner Address2: Not reported
Owner City, State, Zip: Richmond, VA 23261

Owner Type: STATE
Number of Active AST: 0
Number of Active UST: 3
Number of Inactive AST: 1
Number of Inactive UST: 0

Owner Id: 35649

Owner Name: Chesterfield County Airport

EDR ID Number

VA AST

Direction Distance Elevation

nce EDR ID Number tition Site Database(s) EPA ID Number

CHESTERFIELD COUNTY AIRPORT (Continued)

U003682566

Owner Address: 7511 Airport Dr Owner Address2: Not reported

Owner City, State, Zip: Richmond, VA 23237

Owner Type: LOCAL
Number of Active AST: 0
Number of Active UST: 3
Number of Inactive AST: 1
Number of Inactive UST: 0

UST:

Facility ID: 4000010 Federally Regulated: Yes

 Tank Number:
 1-CC041U

 Tank Capacity:
 12000

 Tank Contents:
 JET FUEL

 Tank Status:
 CURR IN USE

Tank Type: UST

Tank Material:

Install Date: 12/24/1975

Tank Materials: Bare Steel No Tank Materials: Cath Protect Steel No Tank Materials: Epoxy Steel No Tank Materials: Fiberglass Yes Tank Materials: Concrete Nο Tank Materials: Composite Nο Tank Materials: Double Walled No Tank Materials: Lined Interior No Tank Materials: Excav Liner No Tank Materials: Insulated Tank Jacket No Tank Materials: Repaired No Tank Materials: Unknown No Tank Materials: Other No

Tank Materials: Other Note Not reported

Release Detection:

Tank Release Detection: Leak Deferred No Tank Release Detection: Manual Gauge Yes Tank Release Detection: Auto Gauge Yes Tank Release Detection: Tank Tightness Yes Tank Release Detection: Vapor Monitor No Tank Release Detection: Inventory Yes Tank Release Detection: Stat Invent Recon No Tank Release Detection: Spill Install Yes Tank Release Detection: Overfill Install Yes Tank Release Detection: Groundwater No Tank Release Detection: Int Sec Containment No

Tank Release Detection: Int Sec Containment No Tank Release Detection: Int Double Walled No

Tank Release Detection: Other Method

Tank Release Detection: Other Note
Pipe Release Detection: Leak Deferred
Pipe Release Detection: Autoleak
Not reported
Not reported

No

Pipe Release Detection: Line Tightness No
Pipe Release Detection: Stat Invent Recon No
Pipe Release Detection: Groundwater No
Pipe Release Detection: Int Sec Containment No

Direction Distance Elevation

on Site Database(s) EPA ID Number

CHESTERFIELD COUNTY AIRPORT (Continued)

U003682566

EDR ID Number

Pipe Release Det: Interior Double Walled No Pipe Release Detection: Other Method No

Pipe Release Detection: Other Note Not reported

Pipe Type: NO VALVE: SUCTION

Pipe Materials: Bare Steel No Pipe Materials: Galvanized Steel No Pipe Materials: Copper No Pipe Materials: Fiberglass No Pipe Materials: Cath Protect Yes Pipe Materials: Double Walled No Pipe Materials: Sec Containment No Pipe Materials: Repaired No Pipe Materials: Unknown No Pipe Materials: Other

Pipe Materials: Other Note STAINLESS STEEL

Facility ID: 4000010 Federally Regulated: Yes

 Tank Number:
 2-CC042U

 Tank Capacity:
 12000

 Tank Contents:
 JET FUEL

 Tank Status:
 CURR IN USE

Tank Type: UST

Tank Material:

Install Date: 12/24/1975

Tank Materials: Bare Steel No Tank Materials: Cath Protect Steel No Tank Materials: Epoxy Steel No Tank Materials: Fiberglass Yes Tank Materials: Concrete No Tank Materials: Composite No Tank Materials: Double Walled No Tank Materials: Lined Interior No Tank Materials: Excav Liner No Tank Materials: Insulated Tank Jacket No Tank Materials: Repaired No Tank Materials: Unknown No Tank Materials: Other No

Tank Materials: Other Note Not reported

Release Detection:

Tank Release Detection: Leak Deferred No Tank Release Detection: Manual Gauge Yes Tank Release Detection: Auto Gauge Yes Tank Release Detection: Tank Tightness Yes Tank Release Detection: Vapor Monitor No Tank Release Detection: Inventory Yes Tank Release Detection: Stat Invent Recon No Tank Release Detection: Spill Install Yes Tank Release Detection: Overfill Install Yes Tank Release Detection: Groundwater No Tank Release Detection: Int Sec Containment No Tank Release Detection: Int Double Walled No

Direction Distance Elevation

ion Site Database(s) EPA ID Number

CHESTERFIELD COUNTY AIRPORT (Continued)

U003682566

EDR ID Number

Tank Release Detection: Other Method No

Tank Release Detection: Other Note
Pipe Release Detection: Leak Deferred
Pipe Release Detection: Autoleak
Not reported
Not reported

Pipe Release Detection: Line Tightness No
Pipe Release Detection: Stat Invent Recon No
Pipe Release Detection: Groundwater No
Pipe Release Detection: Int Sec Containment No
Pipe Release Det: Interior Double Walled No
Pipe Release Detection: Other Method No

Pipe Release Detection: Other Note Not reported

Pipe Type: NO VALVE: SUCTION

Pipe Materials: Bare Steel No Pipe Materials: Galvanized Steel No Pipe Materials: Copper No Pipe Materials: Fiberglass No Pipe Materials: Cath Protect Yes Pipe Materials: Double Walled No Pipe Materials: Sec Containment No Pipe Materials: Repaired No Pipe Materials: Unknown No Pipe Materials: Other Yes

Pipe Materials: Other Note STAINLESS STEEL

Facility ID: 4000010 Federally Regulated: Yes

Tank Number: 3-CC043U Tank Capacity: 12000

Tank Contents: GASOLINE: AVIATION GAS

Tank Status: CURR IN USE

Tank Type: UST

Tank Material:

Install Date: 12/24/1975

Tank Materials: Bare Steel No Tank Materials: Cath Protect Steel No Tank Materials: Epoxy Steel No Tank Materials: Fiberglass Yes Tank Materials: Concrete No Tank Materials: Composite No Tank Materials: Double Walled No Tank Materials: Lined Interior No Tank Materials: Excav Liner Nο Tank Materials: Insulated Tank Jacket No Tank Materials: Repaired No Tank Materials: Unknown No Tank Materials: Other No

Tank Materials: Other Note Not reported

Release Detection:

Tank Release Detection: Leak Deferred
Tank Release Detection: Manual Gauge
Tank Release Detection: Auto Gauge
Tank Release Detection: Tank Tightness
Yes

Direction Distance Elevation

n Site Database(s) EPA ID Number

CHESTERFIELD COUNTY AIRPORT (Continued)

U003682566

EDR ID Number

Tank Release Detection: Vapor Monitor No Tank Release Detection: Inventory Yes Tank Release Detection: Stat Invent Recon No Tank Release Detection: Spill Install Yes Tank Release Detection: Overfill Install Yes Tank Release Detection: Groundwater No Tank Release Detection: Int Sec Containment No Tank Release Detection: Int Double Walled No Tank Release Detection: Other Method No

Tank Release Detection: Other Note
Pipe Release Detection: Leak Deferred
Pipe Release Detection: Autoleak
Not reported
Not reported

Pipe Release Detection: Line Tightness
No
Pipe Release Detection: Stat Invent Recon
Pipe Release Detection: Groundwater
No
Pipe Release Detection: Int Sec Containment
Pipe Release Det: Interior Double Walled
No
Pipe Release Detection: Other Method
No

Pipe Release Detection: Other Note Not reported

Pipe Type: NO VALVE: SUCTION

Pipe Materials: Bare Steel No Pipe Materials: Galvanized Steel No Pipe Materials: Copper No Pipe Materials: Fiberglass No Pipe Materials: Cath Protect Yes Pipe Materials: Double Walled No Pipe Materials: Sec Containment No Pipe Materials: Repaired No Pipe Materials: Unknown No Pipe Materials: Other Yes

Pipe Materials: Other Note STAINLESS STEEL

AST:

 Facility ID:
 4000010

 Facility Type:
 LOCAL

 CEDS Facility ID:
 200000179857

Tank Info:

Owner:

Owner Id: 31448

Owner Name: VSP - Virginia Department of State Police

Owner Address: PO Box 27472
Owner Address2: Not reported
Owner City/State/Zip: Richmond, VA 23261

Owner Type: STATE
Number of Active AST: 0
Number of Active UST: 3
Number of Inactive AST: 1
Number of Inactive UST: 0

Owner Id: 35649

Owner Name: Chesterfield County Airport

Owner Address: 7511 Airport Dr
Owner Address2: Not reported
Owner City/State/Zip: Richmond, VA 23237

Direction
Distance

Elevation Site Database(s) EPA ID Number

CHESTERFIELD COUNTY AIRPORT (Continued)

U003682566

EDR ID Number

Owner Type: LOCAL
Number of Active AST: 0
Number of Active UST: 3
Number of Inactive AST: 1
Number of Inactive UST: 0

Owner Id: 47790

Owner Name: Chesterfield County
Owner Address: 9901 Lori Rd
Owner Address2: Not reported

Owner City/State/Zip: Chesterfield, VA 23832

Owner Type: LOCAL
Number of Active AST: 0
Number of Active UST: 3
Number of Inactive AST: 1
Number of Inactive UST: 0

Fed Regulated: No
Tank Number: VSP-1
Tank Type: AST
Tank Capacity: 1000
Tank Contents: JET FUEL

Tank Status: PERM OUT OF USE

Tank Containment:

Install Date: Not reported

Containment: Curbing No Containment: Weirs Yes Containment: Sorbent Yes Containment: Culvert No Containment: Diversion No Containment: Retention No Containment: Dike No Containment: Unknown No Containment: Other No

Containment: Other Note Not reported

Release Detection:

Release Detection: Ground Water
Release Detection: Visual
Release Detection: Vapor
Release Detection: Interstitial
Release Detection: None
Release Detection: Other
No

Release Prevention: Double Bottom No Release Prevention: Double Walled No

Release Prevention: Lined Interior Not reported

Release Prevention: Poly Jacket No
Release Prevention: Exc Liner No
Release Prevention: None Yes
Release Prevention: Unknown No
Release Prevention: Other No

Release Prevention: Other Note Not reported

Tank Foundation: Steel Yes
Tank Foundation: Earthen No

Direction Distance Elevation

Site Database(s) EPA ID Number

CHESTERFIELD COUNTY AIRPORT (Continued)

U003682566

EDR ID Number

Tank Foundation: Concrete Imp No Tank Foundation: Unknown No Tank Foundation: Other No

Tank Foundation: Other Note Not reported

Tank Roof: Float No Tank Roof: Cone No

Tank Roof: Breather

Tank Roof: Dbldeck

Tank Roof: Pontoon

Tank Roof: Pontoon

Tank Roof: Balloon

Tank Roof: Lifter

Tank Roof: Pan

Not reported

Tank Roof: Pan

Not reported

Tank Roof: Other

Not reported

Yes

Tank Roof: Other Note None Horizontal Cylinder

Tank Material:

Tank Materials: Bare Steel Yes
Tank Materials: Concrete No
Tank Materials: Insulated Tank Jacket No
Tank Materials: Unknown No
Tank Materials: Other No

Tank Materials: Other Note Not reported

Tank Type Cathodic/CP: Ν Tank Type Single Wall: Ν Tank Type Double Wall: Ν Tank Type Lined Interior: Ν Tank Type Double Bottom: Ν Tank Type Potable/Skid: Ν Tank Type Shop Fabricated/Built: Ν Tank Type Vaulted Below Grade: Ν Tank Type Vertical: N Tank Type Horizontal: Ν Tank Type Unknown: Ν Tank Type Other: Ν Tank Type Other Specify: Ν

CEDS:

Facility ID: 18-0734 Class: Active Minor/Major: Not reported Industrial: Not reported Permit Date: 10/28/2023 Outfall Num: Not reported Latitude: 37.399886 Longitude: -77.517823 Permit Type: Not reported Date Effective: 10/29/2018 Owner Address 1: Not reported Owner Address 2: Not reported Owner City: Not reported Owner State: Not reported Owner Zip: Not reported APRD Rec. 1st Time: 5/9/2018 APRD Rec. After 1st Time: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

CHESTERFIELD COUNTY AIRPORT (Continued)

U003682566

EDR ID Number

Event Desc: Not reported

Project Status: The project consists of the removal of obstructions around the south

end of the airport runway in accordance with FAA regulations.

VA Financial Assurance 1:

Facility ID: 4000010

Owner Name: Chesterfield County

ROF Own Id: 47790 Tank Type: UST

Mechanism: LOGO Bond Tst/Gen Purpose

 Gallonage:
 2308907

 Per Occurence:
 30000

 Third Party:
 120000

 Annual Aggregate:
 150000

 In Compliance:
 Not reported

 Total Capacity:
 12000

CEDS Facility Name: Chesterfield County Airport

Tank Status: CURR IN USE

Active Federally Regualted UST: Y

Facility ID: 4000010

Owner Name: Chesterfield County

ROF Own Id: 47790 Tank Type: UST

Mechanism: LOGO Bond Tst/Gen Purpose

 Gallonage:
 2308907

 Per Occurence:
 30000

 Third Party:
 120000

 Annual Aggregate:
 150000

 In Compliance:
 Not reported

 Total Capacity:
 12000

CEDS Facility Name: Chesterfield County Airport

Tank Status: CURR IN USE

Active Federally Regualted UST: Y

Facility ID: 4000010

Owner Name: Chesterfield County

ROF Own Id: 47790 Tank Type: UST

Mechanism: LOGO Bond Tst/Gen Purpose

 Gallonage:
 2308907

 Per Occurence:
 30000

 Third Party:
 120000

 Annual Aggregate:
 150000

 In Compliance:
 Not reported

 Total Capacity:
 12000

CEDS Facility Name: Chesterfield County Airport

Tank Status: CURR IN USE

Active Federally Regualted UST: Y

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

2 AIRPORT FIRE STATION #15 VA UST U003966811 7300 AIRFIELD DR N/A

< 1/8 RICHMOND, VA 23237

1 ft.

Facility:

 Relative:
 Facility Id:
 4023351

 Lower
 Facility Type:
 LOCAL

 Actual:
 CEDS Facility ID:
 200000173567

198 ft.

Owner:

Owner Id: 35704

Owner Name: Chesterfield County Fire Department

Owner Address: 10031 Iron Bridge Rd
Owner Address2: Not reported

Owner City, State, Zip: Chesterfield, VA 23832

Owner Type: LOCAL
Number of Active AST: 0
Number of Inactive AST: 0
Number of Inactive UST: 1

UST:

Facility ID: 4023351 Federally Regulated: Yes

Tank Number: 1-CC039U
Tank Capacity: 1000
Tank Contents: DIESEL

Tank Status: REM FROM GRD

Tank Type: UST

Tank Material:

Install Date: 11/15/1988 Tank Materials: Bare Steel No Tank Materials: Cath Protect Steel Yes Tank Materials: Epoxy Steel No Tank Materials: Fiberglass No Tank Materials: Concrete No Tank Materials: Composite No Tank Materials: Double Walled Yes Tank Materials: Lined Interior No

Tank Materials: Excav Liner No
Tank Materials: Insulated Tank Jacket No
Tank Materials: Repaired No
Tank Materials: Unknown No
Tank Materials: Other No

Tank Materials: Other Note Not reported

Release Detection:

Tank Release Detection: Leak Deferred No Tank Release Detection: Manual Gauge Yes Tank Release Detection: Auto Gauge No Tank Release Detection: Tank Tightness No Tank Release Detection: Vapor Monitor No Tank Release Detection: Inventory No Tank Release Detection: Stat Invent Recon No Tank Release Detection: Spill Install Yes Tank Release Detection: Overfill Install Yes

Direction Distance

Elevation Site Database(s) EPA ID Number

AIRPORT FIRE STATION #15 (Continued)

U003966811

EDR ID Number

Tank Release Detection: Groundwater No
Tank Release Detection: Int Sec Containment No
Tank Release Detection: Int Double Walled No
Tank Release Detection: Other Method No

Tank Release Detection: Other Note
Pipe Release Detection: Leak Deferred
Pipe Release Detection: Autoleak
Not reported
Not reported

Pipe Release Detection: Line Tightness
Pipe Release Detection: Stat Invent Recon
Pipe Release Detection: Groundwater
Pipe Release Detection: Int Sec Containment
Pipe Release Det: Interior Double Walled
Pipe Release Detection: Other Method
No

Pipe Release Detection: Other Note Automatic Shutoff

Pipe Type: NO VALVE: SUCTION

Pipe Materials: Bare Steel Nο Pipe Materials: Galvanized Steel No Pipe Materials: Copper No Pipe Materials: Fiberglass No Pipe Materials: Cath Protect Yes Pipe Materials: Double Walled No Pipe Materials: Sec Containment No Pipe Materials: Repaired No Pipe Materials: Unknown No Pipe Materials: Other Yes Pipe Materials: Other Note RIC-WIL

CHESTERFIELD COUNTY AIRPORT

RCRA-SQG 1010337254 VAR000512889

7511 AIRFIELD DRIVE < 1/8 RICHMOND, VA 23237

1 ft.

А3

Site 2 of 2 in cluster A

Relative: RCRA-SQG:

Higher Date form received by agency: 06/23/2006

Actual: Facility name: CHESTERFIELD COUNTY AIRPORT

214 ft. Facility address: 7511 AIRFIELD DRIVE

RICHMOND, VA 23237

EPA ID: VAR000512889
Mailing address: LORI ROAD - SU

LORI ROAD - SUITE 200 CHESTERFIELD, VA 23832

Contact: JEFF T HOWARD

Contact address: Not reported

Not reported

Contact country: US

Contact telephone: 804-717-6531 Contact email: Not reported

EPA Region: 03

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

hazardous waste at any time

Direction Distance Elevation

tion Site Database(s) EPA ID Number

CHESTERFIELD COUNTY AIRPORT (Continued)

1010337254

EDR ID Number

Owner/Operator Summary:

Owner/operator name: CHESTERFIELD COUNTY

Owner/operator address: P.O. BOX 40

CHESTERFIELD, VA 23832

Owner/operator country: US

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: County Owner/Operator Type: Owner 01/01/1976 Owner/Op start date: Owner/Op end date: Not reported

Owner/operator name: CHESTERFIELD COUNTY

Owner/operator address: Not reported

Not reported

Owner/operator country: US

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: County Operator Owner/Operator Type: Owner/Op start date: 01/01/1976 Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: Nο Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: Nο

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D018
. Waste name: BENZENE

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHESTERFIELD COUNTY AIRPORT (Continued)

Violation Status: No violations found

В4 MARCO MACHINE AND DESIGN INCORPORATED **VA UST** U003683881 **WSW** 7740 WHITEPINE RD N/A

RICHMOND, VA 23237 1/8-1/4

0.158 mi.

835 ft. Site 1 of 3 in cluster B

Relative: Facility: Higher Facility Id: 4006025 Facility Type: COMMERCIAL Actual: CEDS Facility ID: 200000156568 227 ft.

Owner:

Owner Id: 36405

Owner Name: MARCO MACHINE & DESIGN INC

Owner Address: 7740 WHITEPINE RD Owner Address2: **CHESTERFIELD** Owner City, State, Zip: RICHMOND, VA 23237

PRIVATE Owner Type: Number of Active AST: 0 Number of Active UST: 0 Number of Inactive AST: 0 Number of Inactive UST:

UST:

Facility ID: 4006025 Federally Regulated: No

Tank Number: 1

Tank Capacity: Not reported Tank Contents: **HEATING OIL PERM OUT OF USE** Tank Status:

Tank Type: UST

Tank Material:

Install Date: Not reported

Tank Materials: Bare Steel Yes Tank Materials: Cath Protect Steel No Tank Materials: Epoxy Steel No Tank Materials: Fiberglass No Tank Materials: Concrete No Tank Materials: Composite No Tank Materials: Double Walled No Tank Materials: Lined Interior No Tank Materials: Excav Liner No Tank Materials: Insulated Tank Jacket No Tank Materials: Repaired No Tank Materials: Unknown No Tank Materials: Other No

Tank Materials: Other Note Not reported

Release Detection:

No Tank Release Detection: Leak Deferred Tank Release Detection: Manual Gauge No Tank Release Detection: Auto Gauge No Tank Release Detection: Tank Tightness No Tank Release Detection: Vapor Monitor No Tank Release Detection: Inventory No 1010337254

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MARCO MACHINE AND DESIGN INCORPORATED (Continued)

U003683881

Tank Release Detection: Stat Invent Recon No Tank Release Detection: Spill Install No Tank Release Detection: Overfill Install No Tank Release Detection: Groundwater No Tank Release Detection: Int Sec Containment No Tank Release Detection: Int Double Walled No Tank Release Detection: Other Method No

Tank Release Detection: Other Note Not reported Pipe Release Detection: Leak Deferred Not reported Pipe Release Detection: Autoleak Not reported

Pipe Release Detection: Line Tightness No Pipe Release Detection: Stat Invent Recon No Pipe Release Detection: Groundwater No Pipe Release Detection: Int Sec Containment No Pipe Release Det: Interior Double Walled No Pipe Release Detection: Other Method No

Pipe Release Detection: Other Note Not reported

Pipe Type: UNKNOWN

Pipe Materials: Bare Steel No Pipe Materials: Galvanized Steel No Pipe Materials: Copper No Pipe Materials: Fiberglass No Pipe Materials: Cath Protect No Pipe Materials: Double Walled No Pipe Materials: Sec Containment Nο Pipe Materials: Repaired Nο Pipe Materials: Unknown No Pipe Materials: Other Yes **COPPER** Pipe Materials: Other Note

C5 INTEGRATED GLOBAL SERVICES INC. RCRA-LQG 1004789550 VAD185479953

SSW **7600 WHITE PINE RD** 1/8-1/4 RICHMOND, VA 23237

0.158 mi.

Site 1 of 2 in cluster C 835 ft.

EPA ID:

Relative: RCRA-LQG:

Higher Date form received by agency: 07/07/2017

Facility name: INTEGRATED GLOBAL SERVICES INC. Actual:

Facility address: 7600 WHITE PINE RD 208 ft. RICHMOND, VA 23237

VAD185479953

Contact: OLEN JOHNSON Contact address: 7600 WHITE PINE RD RICHMOND, VA 23237

Contact country: US

Contact telephone: 336-605-0293

Telephone ext.: 3124

Contact email: OLEN.JOHNSON@INTEGRATEDGLOBAL.COM

EPA Region: 03 Land type: Private

Classification: Large Quantity Generator

Description: Handler: generates 1,000 kg or more of hazardous waste during any

> calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the

Direction Distance Elevation

Site Database(s) EPA ID Number

INTEGRATED GLOBAL SERVICES INC. (Continued)

1004789550

EDR ID Number

cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: ARMAL PARTNERSHIP

Owner/operator address: 3821 REEDS LANDING CIRCLE

RICHMOND, VA 23113

Owner/operator country: US

Owner/operator telephone: 804-320-5094 Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: Not reported Owner/Op end date: Not reported

Owner/operator name: OPERNAME
Owner/operator address: OPERSTREET

OPERCITY, AK 99999

Owner/operator country: US

Owner/operator telephone: 215-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Legal status: Private
Owner/Operator Type: Operator
Owner/Operator details

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: OPERNAME
Owner/operator address: OPERSTREET
OPERCITY, AK 99999

Owner/operator country: Not reported
Owner/operator telephone: 215-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported

Owner/Operator errain:

Owner/operator fax:

Owner/operator extension:

Legal status:

Owner/Operator Type:

Owner/Operator Type:

Owner/Op start date:

Not reported

Not reported

Not reported

Owner/Op end date:

Owner/operator name: ARMAL PARTNERSHIP

Owner/operator address: 3821 REEDS LANDING CIRCLE

Not reported

RICHMOND, VA 23113

Owner/operator country: Not reported
Owner/operator telephone: 804-320-5094
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported

Direction Distance Elevation

n Site Database(s) EPA ID Number

INTEGRATED GLOBAL SERVICES INC. (Continued)

1004789550

EDR ID Number

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: INTEGRATED GLOBAL SERVICES INC.

Owner/operator address: Not reported Not reported

Owner/operator country:

Owner/operator telephone:

Owner/operator email:

Owner/operator fax:

Owner/operator extension:

Not reported

Not reported

Not reported

Not reported

Not reported

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2014
Owner/Op end date: Not reported

Owner/operator name: FILTRONA FILTERS

Owner/operator address: 303 GALLIMORE DAIRY RD.

GREENSBORO, NC 27409

Owner/operator country: US

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Not reported Owner/operator extension: Legal status: Private Owner/Operator Type: Owner Owner/Op start date: Not reported Owner/Op end date: Not reported

Owner/operator name: NL VENTRURES IX WHITEPINE LLC
Owner/operator address: 4131 N CENTRAL EXPRESSWAY STE 820

DALLAX, TX 75204

Owner/operator country: US

Owner/operator telephone: 214-364-5620
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 04/01/2013

Owner/operator name: INTEGRATED GLOBAL SERVICES INC.

Not reported

Owner/operator address: Not reported Not reported

Owner/operator country: US

Owner/Op end date:

Owner/operator telephone: Not reported Not reported Owner/operator email: Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 01/01/2014 Owner/Op end date: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

INTEGRATED GLOBAL SERVICES INC. (Continued)

1004789550

EDR ID Number

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: Nο Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

. Waste code: D007

. Waste name: CHROMIUM

Historical Generators:

Date form received by agency: 05/01/2016

Site name: INTEGRATED GLOBAL SERVICES INC.

Classification: Large Quantity Generator

. Waste code: D007
. Waste name: CHROMIUM

Date form received by agency: 08/13/2015

Site name: INTEGRATED GLOBAL SERVICES INC.
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D007
. Waste name: CHROMIUM

Date form received by agency: 05/04/2009

Site name: AMERICAN FILTRONA CO (FILTRONA FILTERS)

Classification: Not a generator, verified

Date form received by agency: 03/20/1989

Site name: AMERICAN FILTRONA CO

Classification: Conditionally Exempt Small Quantity Generator

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Facility Has Received Notices of Violations: Regulation violated: Not reported

Area of violation: TSD IS-Preparedness and Prevention

Date violation determined: 05/24/2017

Direction Distance Elevation

Site Database(s) EPA ID Number

INTEGRATED GLOBAL SERVICES INC. (Continued)

1004789550

EDR ID Number

Date achieved compliance: Not reported

Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/05/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: State Statute or Regulation

Date violation determined: 05/24/2017
Date achieved compliance: Not reported Violation lead agency: State

Enforcement action: Referral to Enforcement

Enforcement action date: 07/05/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD IS-Container Use and Management

Date violation determined: 05/24/2017
Date achieved compliance: Not reported Violation lead agency: State

Enforcement action: Referral to Enforcement

Enforcement action date: 07/05/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD IS-Container Use and Management

Date violation determined: 05/24/2017
Date achieved compliance: Not reported Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/05/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General

Date violation determined: 05/24/2017
Date achieved compliance: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

INTEGRATED GLOBAL SERVICES INC. (Continued)

1004789550

EDR ID Number

Violation lead agency: State

Enforcement action: Referral to Enforcement

Enforcement action date: 07/05/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD IS-Manifest/Records/Reporting

Date violation determined: 05/24/2017
Date achieved compliance: Not reported Violation lead agency: State

Enforcement action: Referral to Enforcement

Enforcement action date: 07/05/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD IS-Contingency Plan and Emergency Procedures

Date violation determined: 05/24/2017
Date achieved compliance: Not reported Violation lead agency: State

Enforcement action: Referral to Enforcement

Enforcement action date: 07/05/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: Generators - Pre-transport

Date violation determined: 05/24/2017
Date achieved compliance: Not reported Violation lead agency: State

Enforcement action: Referral to Enforcement

Enforcement action date: 07/05/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: Generators - Pre-transport

Date violation determined: 05/24/2017
Date achieved compliance: Not reported Violation lead agency: State

Direction Distance

Elevation Site Database(s) EPA ID Number

INTEGRATED GLOBAL SERVICES INC. (Continued)

1004789550

EDR ID Number

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/05/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD IS-General Facility Standards

Date violation determined: 05/24/2017
Date achieved compliance: Not reported Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/05/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: Generators - Records/Reporting

Date violation determined: 05/24/2017
Date achieved compliance: Not reported Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/05/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: Generators - Manifest

Date violation determined: 05/24/2017
Date achieved compliance: Not reported

Violation lead agency: State

Enforcement action: Referral to Enforcement

Enforcement action date: 07/05/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD IS-Contingency Plan and Emergency Procedures

Date violation determined: 05/24/2017
Date achieved compliance: Not reported Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Direction Distance Elevation

vation Site Database(s) EPA ID Number

INTEGRATED GLOBAL SERVICES INC. (Continued)

1004789550

EDR ID Number

Enforcement action date: 07/05/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD IS-Manifest/Records/Reporting

Date violation determined: 05/24/2017
Date achieved compliance: Not reported Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/05/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: TSD IS-Preparedness and Prevention

Date violation determined: 05/24/2017
Date achieved compliance: Not reported Violation lead agency: State

Enforcement action: Referral to Enforcement

Enforcement action date: 07/05/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest

Date violation determined: 05/24/2017
Date achieved compliance: Not reported
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/05/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

Proposed penalty amount:
Final penalty amount:
Paid penalty amount:
Not reported
Not reported
Not reported

Regulation violated: Not reported

Area of violation: TSD IS-General Facility Standards

Date violation determined: 05/24/2017
Date achieved compliance: Not reported Violation lead agency: State

Enforcement action: Referral to Enforcement

Enforcement action date: 07/05/2017

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

INTEGRATED GLOBAL SERVICES INC. (Continued)

1004789550

Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: State Proposed penalty amount: Not reported

Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: Not reported Area of violation: Generators - General

Date violation determined: 05/24/2017 Date achieved compliance: Not reported Violation lead agency: State

WRITTEN INFORMAL Enforcement action:

Enforcement action date: 07/05/2017 Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: State Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: Not reported

Generators - Records/Reporting Area of violation:

Date violation determined: 05/24/2017 Date achieved compliance: Not reported State Violation lead agency:

Enforcement action: Referral to Enforcement

Enforcement action date: 07/05/2017 Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: State Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: Not reported

State Statute or Regulation Area of violation:

Date violation determined: 05/24/2017 Date achieved compliance: Not reported Violation lead agency: State

WRITTEN INFORMAL Enforcement action:

07/05/2017 Enforcement action date: Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: State

Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 05/24/2017

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD IS-Preparedness and Prevention

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 05/24/2017

Direction Distance

Elevation Site Database(s) EPA ID Number

INTEGRATED GLOBAL SERVICES INC. (Continued)

1004789550

EDR ID Number

Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Generators - Records/Reporting

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 05/24/2017

Evaluation: SIGNIFICANT NON-COMPLIER

Area of violation: Generators - General

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 05/24/2017

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: State Statute or Regulation

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 05/24/2017

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - Manifest

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 05/24/2017

Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: TSD IS-General Facility Standards

Date achieved compliance: Not reported

Evaluation lead agency: State

Evaluation date: 05/24/2017

Evaluation: SIGNIFICANT NON-COMPLIER

Area of violation: TSD IS-Contingency Plan and Emergency Procedures

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 05/24/2017

Evaluation: SIGNIFICANT NON-COMPLIER Area of violation: Generators - Pre-transport

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 05/24/2017

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: Not reported

Evaluation lead agency: State

Evaluation date: 05/24/2017

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD IS-General Facility Standards

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 05/24/2017

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE Area of violation: TSD IS-Contingency Plan and Emergency Procedures

Date achieved compliance: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

INTEGRATED GLOBAL SERVICES INC. (Continued)

1004789550

EDR ID Number

Evaluation lead agency: State

Evaluation date: 05/24/2017

Evaluation: SIGNIFICANT NON-COMPLIER Area of violation: State Statute or Regulation

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 05/24/2017

Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: TSD IS-Preparedness and Prevention

Date achieved compliance: Not reported

Evaluation lead agency: State

Evaluation date: 05/24/2017

Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: TSD IS-Manifest/Records/Reporting

Date achieved compliance: Not reported

Evaluation lead agency: State

Evaluation date: 05/24/2017

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - Pre-transport

Date achieved compliance: Not reported

Evaluation lead agency: State

Evaluation date: 05/24/2017

Evaluation: SIGNIFICANT NON-COMPLIER

Area of violation: Generators - Manifest

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 05/24/2017

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD IS-Manifest/Records/Reporting

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 05/24/2017

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - Records/Reporting

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 05/24/2017

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD IS-Container Use and Management

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 05/24/2017

Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: TSD IS-Container Use and Management

Date achieved compliance: Not reported Evaluation lead agency: State

Evaluation date: 02/27/2009

Direction Distance

Elevation Site Database(s) **EPA ID Number**

INTEGRATED GLOBAL SERVICES INC. (Continued)

1004789550

EDR ID Number

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: Not reported Date achieved compliance: Not reported

Evaluation lead agency: State

D6 RCRA-SQG 1004791144 **QSI LLC** wsw **7820 WHITEPINE RD FINDS** VAR000004903

1/8-1/4 RICHMOND, VA 23237 **ECHO**

0.158 mi.

Site 1 of 2 in cluster D 836 ft.

Relative: RCRA-SQG:

Higher Date form received by agency: 08/10/2017 Facility name: QSI LLC Actual:

Facility address: 7820 WHITEPINE ROAD 220 ft.

RICHMOND, VA 23237

EPA ID: VAR000004903 Mailing address: WHITEPINE ROAD

RICHMOND, VA 23237 PHILIP J MCDERMOTT

Contact: Contact address: 7820 WHITEPINE RD RICHMOND, VA 23237

Contact country:

804-495-4719 Contact telephone:

PMCDERMOTT@QUANTUMSILICONES.COM Contact email:

EPA Region: 03 Land type: Private

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

hazardous waste at any time

Owner/Operator Summary:

QSI LLC Owner/operator name: Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator

Owner/Op start date: 11/01/2012 Owner/Op end date: Not reported

7820 WHITEPINE LLC DBA JYM INC Owner/operator name:

Owner/operator address: 1000 29TH ST NW

WASHINGTON, DC 20007

Owner/operator country: US

Owner/operator telephone: 301-320-9595 Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private

Owner/Operator Type: Owner

Distance EDR ID Number
Elevation Site EDR ID Number
Database(s) EPA ID Number

QSI LLC (Continued) 1004791144

Owner/Op start date: 10/18/2012
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: Nο Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Historical Generators:

Date form received by agency: 09/30/2009

Site name: SILGAN PLASTICS CORPORATION

Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D006
Waste name: CADMIUM

. Waste code: D008 . Waste name: LEAD

. Waste code: D018
. Waste name: BENZENE

Date form received by agency: 07/01/1996

Map ID MAP FINDINGS
Direction

Distance Elevation

Site Database(s) EPA ID Number

QSI LLC (Continued) 1004791144

Site name: WESTERN RESERVE PRODUCTS

Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001

. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D006
. Waste name: CADMIUM

Waste code: D008
Waste name: LEAD

. Waste code: D018
. Waste name: BENZENE

Facility Has Received Notices of Violations:

Regulation violated: Not reported

Area of violation: Generators - General

Date violation determined: 04/29/2009
Date achieved compliance: 07/09/2009
Violation lead agency: State

Enforcement action: VERBAL INFORMAL

Enforcement action date: 06/08/2009
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 04/29/2009

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: Generators - General

Date achieved compliance: 07/09/2009 Evaluation lead agency: State

FINDS:

Registry ID: 110005259111

Environmental Interest/Information System

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are

transported off-site.

RCRAInfo is a national information system that supports the Resource

Direction Distance

Elevation Site Database(s) EPA ID Number

QSI LLC (Continued) 1004791144

Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1004791144 Registry ID: 110005259111

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110005259111

7 AMSA NO 90 RCRA NonGen / NLR 1007116720 SW 7710 WHITEPINE RD VAR000005710

1/8-1/4 RICHMOND, VA 23832 0.159 mi.

0.159 m 837 ft.

Relative: RCRA NonGen / NLR:

Higher Date form received by agency: 06/20/2003

Actual: Facility name: AMSA NO 90

219 ft. Facility address: 7710 WHITEPINE RD

RICHMOND, VA 23832

EPA ID: VAR000005710
Mailing address: E BELT BLVD

RICHMOND, VA 23224

Contact: MICHELLE BROWN
Contact address: 1741 E BELT BLVD
BIGUMOND VA 2322

RICHMOND, VA 23224

Contact country: US

Contact telephone: 804-233-6473 Contact email: Not reported

EPA Region: 03

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: US ARMY RESERVE

Owner/operator address: Not reported

Not reported Not reported

Owner/operator country: Owner/operator telephone: Not reported Owner/operator email: Not reported Not reported Owner/operator fax: Owner/operator extension: Not reported Federal Legal status: Owner/Operator Type: Operator Owner/Op start date: 01/01/1990 Owner/Op end date: Not reported

Owner/operator name: US GOVERNMENT 99TH RSC

Owner/operator address: 5 LOBAUGH ST

OAKDALE, PA 15071

Owner/operator country: Not reported

Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

AMSA NO 90 (Continued) 1007116720

Owner/operator telephone: 412-693-2322 Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Federal Owner/Operator Type: Owner Owner/Op start date: Not reported Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): Nο Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: Nο Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 09/24/1996 Site name: AMSA NO 90

Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D001

. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F003

. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT
MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT
NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS
CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED
SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR
MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL

BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

MIXTURES.

Violation Status: No violations found

Direction Distance

Elevation Site Database(s) **EPA ID Number**

E8 AMERICAN FILTRONA CORP VA UST U003688234 SSW **7531 WHITEPINE RD** N/A

1/8-1/4 0.171 mi.

901 ft. Site 1 of 3 in cluster E

CHESTERFIELD, VA 23832

Relative: Facility: Higher

4025914 Facility Id: Facility Type: UNKNOWN Actual: CEDS Facility ID: 200000164880 200 ft.

Owner:

Owner Id: 27822

Owner Name: AMERICAN FILTRONA CORP Owner Address: 3951 WSTEERE PKWY ySTE 300

Owner Address2: Not reported

RICHMOND, VA 23233 Owner City, State, Zip:

Owner Type: **PRIVATE** Number of Active AST: 0 Number of Active UST: 0 Number of Inactive AST: 0 Number of Inactive UST: 1

UST:

Facility ID: 4025914 Federally Regulated: Yes

Tank Number: R1 Tank Capacity: 1000 Tank Contents: **USED OIL Tank Status: REM FROM GRD**

Tank Type: UST

Tank Material:

Install Date: 1/1/1983 Tank Materials: Bare Steel Yes Tank Materials: Cath Protect Steel No Tank Materials: Epoxy Steel No Tank Materials: Fiberglass No Tank Materials: Concrete No Tank Materials: Composite No Tank Materials: Double Walled No Tank Materials: Lined Interior No Tank Materials: Excav Liner No Tank Materials: Insulated Tank Jacket No Tank Materials: Repaired No Tank Materials: Unknown No Tank Materials: Other

Tank Materials: Other Note Not reported

Nο

Release Detection:

Tank Release Detection: Leak Deferred No Tank Release Detection: Manual Gauge No Tank Release Detection: Auto Gauge No Tank Release Detection: Tank Tightness No Tank Release Detection: Vapor Monitor No Tank Release Detection: Inventory No Tank Release Detection: Stat Invent Recon No Tank Release Detection: Spill Install No

Direction Distance

Elevation Site **EPA ID Number** Database(s)

AMERICAN FILTRONA CORP (Continued)

U003688234

EDR ID Number

Tank Release Detection: Overfill Install No Tank Release Detection: Groundwater No Tank Release Detection: Int Sec Containment No Tank Release Detection: Int Double Walled No Tank Release Detection: Other Method No

Tank Release Detection: Other Note Not reported Not reported Pipe Release Detection: Leak Deferred Pipe Release Detection: Autoleak Not reported

Pipe Release Detection: Line Tightness No Pipe Release Detection: Stat Invent Recon No Pipe Release Detection: Groundwater No Pipe Release Detection: Int Sec Containment No Pipe Release Det: Interior Double Walled No Pipe Release Detection: Other Method No

Pipe Release Detection: Other Note Not reported

Pipe Type: **UNKNOWN** Pipe Materials: Bare Steel Yes

Pipe Materials: Galvanized Steel No Pipe Materials: Copper No Pipe Materials: Fiberglass No Pipe Materials: Cath Protect No Pipe Materials: Double Walled No Pipe Materials: Sec Containment No Pipe Materials: Repaired No Pipe Materials: Unknown Nο Pipe Materials: Other No

Pipe Materials: Other Note Not reported

C9 **CUSTOM METAL FABRICATORS INC**

SSW **7601 WHITEPINE RD** CHESTERFIELD, VA 23832 1/8-1/4

RCRA-CESQG:

0.171 mi.

Site 2 of 2 in cluster C 902 ft.

Relative: Higher Date form received by agency: 03/12/1998

CUSTOM METAL FABRICATORS INC Facility name: Actual:

Facility address: 7601 WHITEPINE RD 201 ft.

CHESTERFIELD, VA 23832-0098

EPA ID: VAD049967342 Contact: Not reported Not reported Contact address: Not reported

US

Contact country: Contact telephone: Not reported Not reported Contact email: EPA Region: 03

Land type: Private

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar

month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any

land or water, of acutely hazardous waste; or generates 100 kg or less

RCRA-CESQG

FINDS

ECHO

1000885091

VAD049967342

Direction Distance Elevation

Site Database(s) EPA ID Number

CUSTOM METAL FABRICATORS INC (Continued)

1000885091

EDR ID Number

of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: OPERNAME
Owner/operator address: OPERSTREET
OPERCITY, AK 99999

Owner/operator country: Not reported Owner/operator telephone: 215-555-1212 Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: Not reported Owner/Op end date: Not reported

Owner/operator name: JOHNSON JOSEPH DEAN
Owner/operator address: 13809 RAMBLEWOOD DR

CHESTER, VA 23831 Not reported

804-541-7191 Owner/operator telephone: Owner/operator email: Not reported Owner/operator fax: Not reported Not reported Owner/operator extension: Legal status: Private Owner/Operator Type: Owner Owner/Op start date: Not reported Owner/Op end date: Not reported

Handler Activities Summary:

Owner/operator country:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: Nο Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 02/25/1987

Site name: CUSTOM METAL FABRICATORS INC

Classification: Small Quantity Generator

Direction Distance Elevation

on Site Database(s) EPA ID Number

CUSTOM METAL FABRICATORS INC (Continued)

1000885091

EDR ID Number

. Waste code: D001

. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: F005

. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL

KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE,

2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF

THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U002

Waste name: ACETONE (I)

Waste code: U140

. Waste name: ISOBUTYL ALCOHOL (I,T)

. Waste code: U165

. Waste name: NAPHTHALENE

Waste code: U239

. Waste name: BENZENE, DIMETHYL- (I,T)

Facility Has Received Notices of Violations:

Regulation violated: SR - VHWMR 6.4.E.4.e(2)
Area of violation: Generators - Pre-transport

Date violation determined: 07/06/1993
Date achieved compliance: 08/12/1993
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/06/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - VHWMR 6.4.3.E.4. d Area of violation: Generators - Pre-transport

Date violation determined: 07/06/1993
Date achieved compliance: 08/12/1993
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/06/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

CUSTOM METAL FABRICATORS INC (Continued)

1000885091

EDR ID Number

Paid penalty amount: Not reported

Regulation violated: SR - VHWMR 9.2.F Area of violation: Generators - Pre-transport

Date violation determined: 07/06/1993
Date achieved compliance: 08/12/1993
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 07/06/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 03/12/1998

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 07/06/1993

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - Pre-transport

Date achieved compliance: 08/12/1993 Evaluation lead agency: State

FINDS:

Registry ID: 110005223025

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000885091 Registry ID: 110005223025

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110005223025

Direction Distance

Elevation Site Database(s) **EPA ID Number**

F10 **ROGERS CORPORATION** RCRA NonGen / NLR 1004791841 West

8020 WHITEPINE ROAD FINDS VAR000501528 RICHMOND, VA 23237 **ECHO**

1/8-1/4 0.172 mi.

910 ft. Site 1 of 2 in cluster F Relative: RCRA NonGen / NLR:

Higher Date form received by agency: 04/01/2010

Facility name: **ROGERS CORPORATION** Actual: Facility address: 8020 WHITEPINE ROAD 240 ft.

RICHMOND, VA 23237

EPA ID: VAR000501528 MICHAL J WERBECKI Contact:

Contact address: PO BOX ONE TECHNOLOGY DRIVE

ROGERS, CT 06263

Contact country:

Contact telephone: 860-779-4765

Contact email: MICHAL.WERBECKI@ROGERSCORPORATION.COM

EPA Region: 03

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

ROGERS CORPORATION Owner/operator name:

Owner/operator address: Not reported

Not reported

Owner/operator country: US

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator

Owner/Op start date: 04/30/2009 Owner/Op end date: Not reported

ROGERS CORPORATION Owner/operator name:

PO BOX 188 ONE TECHNOLOGY DRIVE Owner/operator address:

ROGERS, CT 06263

Owner/operator country: US

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 04/30/2009 Owner/Op end date: Not reported

MAGNIFOAM TECHNOLOGY, INC. Owner/operator name:

7381 PACIFIC CIRCLE Owner/operator address:

MISSISSAUGA, 11111

Owner/operator country: CA

Owner/operator telephone: (905) 564-9700 Owner/operator email: Not reported Not reported Owner/operator fax: Owner/operator extension: Not reported Legal status: Private

Owner/Operator Type: Owner

Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

ROGERS CORPORATION (Continued)

1004791841

EDR ID Number

Owner/Op start date: Not reported Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: Nο Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 05/09/2001

Site name: MAGNIFOAM DELEWARE INC.

Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D001

. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F003

. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT
MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT
NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS
CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED
SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR
MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL

BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Registry ID: 110066980538

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ROGERS CORPORATION (Continued)

1004791841

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1004791841 Registry ID: 110066980538

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110066980538

F11 **ROGERS CORP PA MANIFEST** S111773825 West **8020 WHITEPINE ROAD** N/A

1/8-1/4 RICHMOND, VA 23237

0.172 mi.

910 ft. Site 2 of 2 in cluster F

Relative: Manifest Details:

Higher Year: 2009 Manifest Number: 000304678FLE Actual: Manifest Type: TSD Copy 240 ft. Generator EPA Id: VAR000501528

Generator Date: 12/22/2009 Mailing Address: Not reported Mailing City, St, Zip: Not reported Contact Name: Not reported Contact Phone: NULL

TSD EPA Id: PAD085690592 TSD Date: Not reported

TSD Facility Name: REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC

TSD Facility Address: 2869 SANDSTONE DRIVE

TSD Facility City: **HATFIELD** TSD Facility State: PΑ

Facility Telephone: Not reported

Page Number: Line Number: 1 Waste Number: NONE Container Number: 9

Metal drums, barrels, kegs Container Type:

Waste Quantity:

Unit: Gallons (liquids only)

Not reported Handling Code: TSP EPA Id: Not reported Date TSP Sig: Not reported

Year: 2009

Manifest Number: 000304678FLE TSD Copy Manifest Type: Generator EPA Id: VAR000501528 12/22/2009 Generator Date: Mailing Address: Not reported Not reported Mailing City, St, Zip: Contact Name: Not reported Contact Phone: **NULL**

PAD085690592 TSD EPA Id: TSD Date: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ROGERS CORP (Continued) S111773825

REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC TSD Facility Name:

TSD Facility Address: 2869 SANDSTONE DRIVE

TSD Facility City: **HATFIELD** TSD Facility State: PΑ Facility Telephone: Not reported

Page Number: Line Number: 2 Waste Number: D001 Container Number: 2

Container Type: Metal drums, barrels, kegs

170 Waste Quantity:

Gallons (liquids only) Unit:

Handling Code: Not reported TSP EPA Id: Not reported Date TSP Sig: Not reported

2009 Year:

000304678FLE Manifest Number: Manifest Type: TSD Copy Generator EPA Id: VAR000501528 Generator Date: 12/22/2009 Mailing Address: Not reported Mailing City, St, Zip: Not reported Contact Name: Not reported Contact Phone: **NULL** PAD085690592 TSD EPA Id: TSD Date: Not reported

TSD Facility Name: REPUBLIC ENVIRONMENTAL SYSTEMS OF PAINC

2869 SANDSTONE DRIVE TSD Facility Address:

TSD Facility City: **HATFIELD** TSD Facility State: РΑ

Facility Telephone: Not reported

Page Number: Line Number: 3 NONE Waste Number: Container Number: 11

Container Type: Metal drums, barrels, kegs

Waste Quantity: 605

Gallons (liquids only) Unit:

Handling Code: Not reported TSP EPA Id: Not reported Date TSP Sig: Not reported

B12 **REYNOLDS METALS COMPANY** VA UST

wsw 7900 REYCAN RD 1/8-1/4 RICHMOND, VA 23237

0.174 mi.

918 ft. Site 2 of 3 in cluster B

Relative: Facility: Higher Facility Id: 4018378 Facility Type: COMMERCIAL Actual: CEDS Facility ID: 200000165364 217 ft.

Owner:

Owner Id: 28729

Owner Name: Reynolds Metal Company Owner Address: 6601 W Broad St

TC5567935.2s Page 44

U003686658

N/A

Direction Distance Elevation

ce EDR ID Number on Site Database(s) EPA ID Number

REYNOLDS METALS COMPANY (Continued)

U003686658

Owner Address2: Not reported

Owner City, State, Zip: Richmond, VA 23230

Owner Type: PRIVATE

Number of Active AST: 0
Number of Active UST: 0
Number of Inactive AST: 0
Number of Inactive UST: 2

UST:

Facility ID: 4018378 Federally Regulated: Yes

Tank Number: 1R Tank Capacity: 1000

Tank Contents: HAZARDOUS
Tank Status: CLS IN GRD

Tank Type: UST

Tank Material:

5/7/1980 Install Date: Tank Materials: Bare Steel Yes No Tank Materials: Cath Protect Steel Tank Materials: Epoxy Steel No Tank Materials: Fiberglass No Tank Materials: Concrete No Tank Materials: Composite Nο Tank Materials: Double Walled Nο Tank Materials: Lined Interior No Tank Materials: Excav Liner No Tank Materials: Insulated Tank Jacket No Tank Materials: Repaired No Tank Materials: Unknown No Tank Materials: Other No

Tank Materials: Other Note Not reported

Release Detection:

Tank Release Detection: Leak Deferred No Tank Release Detection: Manual Gauge No Tank Release Detection: Auto Gauge No Tank Release Detection: Tank Tightness No Tank Release Detection: Vapor Monitor No Tank Release Detection: Inventory No Tank Release Detection: Stat Invent Recon No Tank Release Detection: Spill Install No Tank Release Detection: Overfill Install Nο Tank Release Detection: Groundwater No Tank Release Detection: Int Sec Containment No Tank Release Detection: Int Double Walled No Tank Release Detection: Other Method No

Tank Release Detection: Other Note
Pipe Release Detection: Leak Deferred
Pipe Release Detection: Autoleak
Not reported
Not reported

Pipe Release Detection: Line Tightness No
Pipe Release Detection: Stat Invent Recon No
Pipe Release Detection: Groundwater No
Pipe Release Detection: Int Sec Containment No
Pipe Release Det: Interior Double Walled No

Direction Distance Elevation

EDR ID Number

n Site Database(s) EPA ID Number

REYNOLDS METALS COMPANY (Continued)

U003686658

Pipe Release Detection: Other Method No

Pipe Release Detection: Other Note Not reported

Pipe Type: UNKNOWN

Pipe Materials: Bare Steel No Pipe Materials: Galvanized Steel No Pipe Materials: Copper No Pipe Materials: Fiberglass No Pipe Materials: Cath Protect No Pipe Materials: Double Walled No Pipe Materials: Sec Containment No Pipe Materials: Repaired No

Pipe Materials: Unknown No
Pipe Materials: Other Yes

Pipe Materials: Other Note ASPHALTIC CAST IRON

Facility ID: 4018378 Federally Regulated: Yes

 Tank Number:
 2R

 Tank Capacity:
 1000

 Tank Contents:
 USED OIL

 Tank Status:
 CLS IN GRD

Tank Type: UST

Tank Material:

5/7/1980 Install Date: Tank Materials: Bare Steel Yes Tank Materials: Cath Protect Steel No Tank Materials: Epoxy Steel No Tank Materials: Fiberglass No Tank Materials: Concrete No Tank Materials: Composite No Tank Materials: Double Walled No Tank Materials: Lined Interior No Tank Materials: Excav Liner No Tank Materials: Insulated Tank Jacket No Tank Materials: Repaired No Tank Materials: Unknown No Tank Materials: Other No

Tank Materials: Other Note Not reported

Release Detection:

Tank Release Detection: Leak Deferred No Tank Release Detection: Manual Gauge No Tank Release Detection: Auto Gauge No Tank Release Detection: Tank Tightness No Tank Release Detection: Vapor Monitor No Tank Release Detection: Inventory No Tank Release Detection: Stat Invent Recon No Tank Release Detection: Spill Install No Tank Release Detection: Overfill Install No Tank Release Detection: Groundwater No Tank Release Detection: Int Sec Containment No Tank Release Detection: Int Double Walled No Tank Release Detection: Other Method No

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

REYNOLDS METALS COMPANY (Continued)

U003686658

Tank Release Detection: Other Note Not reported Not reported Pipe Release Detection: Leak Deferred Pipe Release Detection: Autoleak Not reported

Pipe Release Detection: Line Tightness No Pipe Release Detection: Stat Invent Recon No Pipe Release Detection: Groundwater No Pipe Release Detection: Int Sec Containment No Pipe Release Det: Interior Double Walled No Pipe Release Detection: Other Method No

Pipe Release Detection: Other Note Not reported

UNKNOWN Pipe Type:

Pipe Materials: Bare Steel No Pipe Materials: Galvanized Steel No Pipe Materials: Copper No Pipe Materials: Fiberglass No Pipe Materials: Cath Protect No Pipe Materials: Double Walled No Pipe Materials: Sec Containment No Pipe Materials: Repaired No Pipe Materials: Unknown No Pipe Materials: Other Yes

Pipe Materials: Other Note ASPHALTIC CAST IRON

E13 **CARDINAL ELECTRIC VA UST** U003686802 SSW **7521 WHITEPINE RD** N/A

1/8-1/4 RICHMOND, VA 23237

0.183 mi.

964 ft. Site 2 of 3 in cluster E

Relative: Facility:

Higher Facility Id: 4018769 Facility Type: CONTRACTOR Actual: CEDS Facility ID: 200000163917 201 ft.

Owner:

32302 Owner Id:

Owner Name: Spencer Brothers Incorporated

Owner Address: 8701 Iron Bridge Rd

Owner Address2: Not reported

Owner City, State, Zip: North Chesterfield, VA 23237

Owner Type: COMMERCIAL

Number of Active AST: 0 Number of Active UST: 0 Number of Inactive AST: 0 Number of Inactive UST: 1

UST:

Facility ID: 4018769 Federally Regulated: Yes

Tank Number: R1

Tank Capacity: Not reported Tank Contents: **GASOLINE** Tank Status: **REM FROM GRD**

Tank Type: UST

Direction
Distance
Elevation

Site Database(s) EPA ID Number

CARDINAL ELECTRIC (Continued)

U003686802

EDR ID Number

Tank Material:	
Install Date:	Not reported
Tank Materials: Bare Steel	Yes
Tank Materials: Cath Protect Steel	No
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No

Tank Materials: Insulated Tank Jacket No Tank Materials: Repaired No Tank Materials: Unknown No Tank Materials: Other No

Tank Materials: Other Note Not reported

Release Detection:

Tank Release Detection: Leak Deferred No Tank Release Detection: Manual Gauge No Tank Release Detection: Auto Gauge No Tank Release Detection: Tank Tightness No Tank Release Detection: Vapor Monitor No Tank Release Detection: Inventory No Tank Release Detection: Stat Invent Recon Nο Tank Release Detection: Spill Install Nο Tank Release Detection: Overfill Install No Tank Release Detection: Groundwater No Tank Release Detection: Int Sec Containment No Tank Release Detection: Int Double Walled No Tank Release Detection: Other Method No

Tank Release Detection: Other Note
Pipe Release Detection: Leak Deferred
Pipe Release Detection: Autoleak
Not reported
Not reported

Pipe Release Detection: Line Tightness No
Pipe Release Detection: Stat Invent Recon No
Pipe Release Detection: Groundwater No
Pipe Release Detection: Int Sec Containment No
Pipe Release Det: Interior Double Walled No
Pipe Release Detection: Other Method No

Pipe Release Detection: Other Note Not reported

UNKNOWN Pipe Type: Pipe Materials: Bare Steel No Pipe Materials: Galvanized Steel Yes Pipe Materials: Copper No Pipe Materials: Fiberglass No Pipe Materials: Cath Protect No Pipe Materials: Double Walled Nο Pipe Materials: Sec Containment No

Pipe Materials: Sec Containment No
Pipe Materials: Repaired No
Pipe Materials: Unknown No
Pipe Materials: Other No

Pipe Materials: Other Note Not reported

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

E14 OLD DOMINION TRUCK LEASING INCORPORATED VA UST U003682813
SSW 7511 WHITEPINE RD N/A

SSW 7511 WHITEPINE RD 1/8-1/4 RICHMOND, VA 23832

0.183 mi.

965 ft. Site 3 of 3 in cluster E

Relative: Facility:
Higher Facility Id: 4001430

Actual: Facility Type: TRUCKING/TRANSPORT

202 ft. CEDS Facility ID: 200000172497

Owner:

Owner Id: 33996

Owner Name: E&J ENTERPRISES
Owner Address: 7511 WHITEPINE ROAD

Owner Address2: Not reported

Owner City, State, Zip: CHESTERFIELD, VA 23832

Owner Type: COMMERCIAL

Number of Active AST: 0
Number of Active UST: 0
Number of Inactive AST: 0
Number of Inactive UST: 1

UST:

Facility ID: 4001430 Federally Regulated: Yes

Tank Number: r1
Tank Capacity: 10000
Tank Contents: GASOLINE
Tank Status: REM FROM GRD

Tank Type: UST

Tank Material:

Install Date: 3/26/1981 Tank Materials: Bare Steel Yes Tank Materials: Cath Protect Steel No Tank Materials: Epoxy Steel No Tank Materials: Fiberglass No Tank Materials: Concrete No Tank Materials: Composite No Tank Materials: Double Walled No Tank Materials: Lined Interior No Tank Materials: Excav Liner No Tank Materials: Insulated Tank Jacket No Tank Materials: Repaired No Tank Materials: Unknown No Tank Materials: Other Nο

Tank Materials: Other Note Not reported

Release Detection:

Tank Release Detection: Leak Deferred No Tank Release Detection: Manual Gauge No Tank Release Detection: Auto Gauge No Tank Release Detection: Tank Tightness No Tank Release Detection: Vapor Monitor No Tank Release Detection: Inventory No Tank Release Detection: Stat Invent Recon No Tank Release Detection: Spill Install No

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

OLD DOMINION TRUCK LEASING INCORPORATED (Continued)

U003682813

Tank Release Detection: Overfill Install No Tank Release Detection: Groundwater No Tank Release Detection: Int Sec Containment No Tank Release Detection: Int Double Walled No Tank Release Detection: Other Method No

Tank Release Detection: Other Note Not reported Pipe Release Detection: Leak Deferred Not reported Pipe Release Detection: Autoleak Not reported

Pipe Release Detection: Line Tightness No Pipe Release Detection: Stat Invent Recon No Pipe Release Detection: Groundwater No Pipe Release Detection: Int Sec Containment No Pipe Release Det: Interior Double Walled No Pipe Release Detection: Other Method No

Pipe Release Detection: Other Note Not reported

Pipe Type: **UNKNOWN**

Pipe Materials: Bare Steel No Pipe Materials: Galvanized Steel No Pipe Materials: Copper No Pipe Materials: Fiberglass No Pipe Materials: Cath Protect No Pipe Materials: Double Walled No Pipe Materials: Sec Containment No Pipe Materials: Repaired No Pipe Materials: Unknown Yes Pipe Materials: Other No

Pipe Materials: Other Note Not reported

B15 ARISTA LABORATORIES RCRA NonGen / NLR 1004791860 **WSW** 7741 WHITEPINE RD. **FINDS** VAR000501783 1/8-1/4 RICHMOND, VA 23237 **ECHO**

0.183 mi.

Site 3 of 3 in cluster B 965 ft. Relative: RCRA NonGen / NLR:

Higher Date form received by agency: 10/07/2013

ARISTA LABORATORIES Facility name: Actual: 7741 WHITEPINE RD. Facility address: 220 ft.

RICHMOND, VA 23237

EPA ID: VAR000501783 KARL WAGNER Contact: Contact address: 7741 WHITEPINE RD.

RICHMOND, VA 23237

Contact country: US

804-271-5572 Contact telephone: Contact email: Not reported

EPA Region: 03

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: DANNY CHAMPANERI Owner/operator address: 7741 WHITEPINE RD. RICHMOND, VA 23237

Not reported

Owner/operator country:

Distance Elevation Site

Site Database(s) EPA ID Number

ARISTA LABORATORIES (Continued)

1004791860

EDR ID Number

Owner/operator telephone: 804-271-5572 Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: Not reported Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): Nο Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: Nο Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 09/17/2001

Site name: ARISTA LABORATORIES
Classification: Not a generator, verified

. Waste code: D001

. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003

. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS

NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE

OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Direction

Elevation Site Database(s) EPA ID Number

ARISTA LABORATORIES (Continued)

1004791860

EDR ID Number

. Waste code: F003

. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT
MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT
NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS
CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED
SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR
MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL
BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

MIXTURES.

Waste code: F005

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL

KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE,

2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF

THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: P098

. Waste name: POTASSIUM CYANIDE

Date form received by agency: 06/01/2001

Site name: ARISTA LABORATORIES
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110007903830

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

corrective action activities required under RCRA.

<u>Click this hyperlink</u> while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1004791860 Registry ID: 110007903830

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110007903830

Direction Distance

Elevation Site Database(s) EPA ID Number

D16 EVONIK CORPORATION RCRA-SQG 1000318163
WSW 7801 WHITE PINE RD. FINDS VAD980719553

1/8-1/4 CHESTERFIELD, VA 23237

0.184 mi.

969 ft. Site 2 of 2 in cluster D

Relative: RCRA-SQG:

Higher Date form received by agency: 04/30/2014

Actual: Facility name: EVONIK CORPORATION
227 ft. Facility address: 7801 WHITE PINE RD.
CHESTERFIELD, VA 23237

EPA ID: VAD980719553 Mailing address: PO BOX 1299

HOPEWELL, VA 23860

Contact: RUSSELL B MAIT
Contact address: PO BOX 1299

HOPEWELL, VA 23860

Contact country: US

Contact telephone: 000-000-0000

Contact email: RUSSELL.MAIT@EVONIK.COM

EPA Region: 03 Land type: Private

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

hazardous waste at any time

Owner/Operator Summary:

Owner/operator address: PHILIP MORRIS USA
Owner/operator address: PO BOX 26603

RICHMOND, VA 23261

Owner/operator country: US

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 01/01/2005 Owner/Op end date: Not reported

Owner/operator name: CHRYSALIS TECHNOLOGIES, INC.

Owner/operator address: 7801 WHITE PINE RD. CHESTERFIELD, VA 23237

Not reported Owner/operator country: 804-864-4300 Owner/operator telephone: Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 09/18/2000 Owner/Op end date: Not reported

Owner/operator name: ALTRIA CLIENT SERVICES

Owner/operator address: Not reported

Not reported

EDR ID Number

ECHO

Distance Elevation

ation Site Database(s) EPA ID Number

EVONIK CORPORATION (Continued)

1000318163

EDR ID Number

Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 08/01/2008 Owner/Op end date: Not reported

Owner/operator name: EVONIK CORPORATION

Owner/operator address: Not reported

Not reported

Not reported

Owner/operator country: US

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 01/24/2014

Owner/operator name: EVONIK CORPORATION

Owner/operator address: PO BOX 1299

HOPEWELL, VA 23860

Owner/operator country: US

Owner/Op end date:

Owner/operator telephone: 800-876-2436 Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: 01/24/2014 Owner/Op end date: Not reported

Owner/operator name: BALL METAL BEVERAGE CONTAINER

Owner/operator address: 9300 W 108TH CIR

BROOMFIELD, CO 80021 Not reported

Owner/operator country: Owner/operator telephone: 303-460-5493 Owner/operator email: Not reported Owner/operator fax: Not reported Not reported Owner/operator extension: Private Legal status: Owner/Operator Type: Owner Owner/Op start date: Not reported Owner/Op end date: Not reported

Owner/operator name: PHILIP MORRIS USA

Owner/operator address: Not reported Not reported

Owner/operator country: US

Owner/operator telephone: Not reported Nor reported Nor reported Nor reported Owner/operator fax: Not reported Owner/operator extension: Not reported

Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

EVONIK CORPORATION (Continued)

1000318163

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2005
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: Nο Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: Nο On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

. Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002

. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003

. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS

NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE

OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D016
Waste name: 2,4-D

. Waste code: F003

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED

Direction Distance Elevation

vation Site Database(s) EPA ID Number

EVONIK CORPORATION (Continued)

1000318163

EDR ID Number

SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

MIXTURES.

. Waste code: P075

. Waste name: NICOTINE, & SALTS

. Waste code: U240

. Waste name: ACETIC ACID, (2,4-DICHLOROPHENOXY)-, SALTS & ESTERS

Historical Generators:

Date form received by agency: 01/08/2009

Site name: CHRYSALIS TECHNOLOGY

Classification: Conditionally Exempt Small Quantity Generator

Waste code: D001

. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Date form received by agency: 01/06/2005

Site name: PHILIP MORRIS USA-CHRYSALIS TECHNOLOGIES

Classification: Small Quantity Generator

. Waste code: D001

. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002

. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003

. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS

NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE

OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D009
. Waste name: MERCURY

Distance

Elevation Site Database(s) EPA ID Number

EVONIK CORPORATION (Continued)

1000318163

EDR ID Number

. Waste code: D018
. Waste name: BENZENE

Waste code: D022

. Waste name: CHLOROFORM

. Waste code: F002

. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE,

METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,

CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND

1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND

SPENT SOLVENT MIXTURES.

Waste code: F003

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

MIXTURES.

. Waste code: U019

. Waste name: BENZENE (I,T)

Date form received by agency: 01/17/2001

Site name: CHRYSALIS TECHNOLOGIES, INC.

Classification: Small Quantity Generator

. Waste code: D001

. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: F001

. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING:

TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE,

Distance

Elevation Site Database(s) EPA ID Number

EVONIK CORPORATION (Continued)

1000318163

EDR ID Number

1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002

Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE,

METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,

CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND

1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND

SPENT SOLVENT MIXTURES.

Waste code: F005

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL

KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE,

2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF

THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 08/17/1998

Site name: CHRYSALIS TECHNOLOGIES, INC.

Classification: Small Quantity Generator

Date form received by agency: 12/08/1980

Site name: CHRYSALIS TECHNOLOGIES, INC.

Classification: Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 05/08/2009

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110008186701

Environmental Interest/Information System TSCA SUBMITTER

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Direction Distance

Elevation Site Database(s) **EPA ID Number**

EVONIK CORPORATION (Continued)

1000318163

EDR ID Number

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

1000318163 Envid: Registry ID: 110008186701

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110008186701

G17 **ENVIRONMENTAL HAZARDS SERVICES LLC** RCRA-CESQG 1009218720

VAR000510693

South 7469 WHITEPINE ROAD 1/8-1/4 RICHMOND, VA 23237

0.189 mi.

1000 ft. Site 1 of 2 in cluster G

Relative: RCRA-CESQG:

Higher Date form received by agency: 11/14/2005

ENVIRONMENTAL HAZARDS SERVICES LLC Facility name: Actual:

Facility address: 7469 WHITEPINE ROAD 199 ft.

RICHMOND, VA 23237

VAR000510693 EPA ID: Mailing address: WHITEPINE ROAD RICHMOND, VA 23237

Contact: IRMA M FASZEWSKI

Contact address: Not reported

Not reported

Contact country: US

804-275-4788 Contact telephone: Contact email: Not reported

EPA Region: 03 Land type: Private

Classification: Conditionally Exempt Small Quantity Generator

Handler: generates 100 kg or less of hazardous waste per calendar Description:

month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from

the cleanup of a spill, into or on any land or water, of acutely

hazardous waste

Owner/Operator Summary:

Owner/operator name: ROBERT GELBACH

Owner/operator address: WILSON MILLS RD, SUITE 102

CLEVELAND, OH 44143

Owner/operator country: US

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private

Direction Distance Elevation

ion Site Database(s) EPA ID Number

ENVIRONMENTAL HAZARDS SERVICES LLC (Continued)

1009218720

EDR ID Number

Owner/Operator Type: Owner
Owner/Op start date: 04/04/1998
Owner/Op end date: Not reported

Owner/operator name: HOWARD VARNER
Owner/operator address: Not reported

Not reported

Owner/operator country: US

Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Not reported Owner/operator extension: Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 04/04/1998 Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: Nο Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Waste code: D008
Waste name: LEAD

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 01/20/2009

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/16/2008

Evaluation: COMPLIANCE ASSISTANCE VISIT

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Direction Distance

Elevation Site Database(s) **EPA ID Number**

G18 **GE INSPECTION SVCS** RCRA-SQG 1000581526 South 7445 WHITEPINE RD **FINDS** VAD988202610

1/8-1/4 NORTH CHESTERFIELD, VA 23237

0.191 mi.

1008 ft. Site 2 of 2 in cluster G

Relative: RCRA-SQG:

Higher Date form received by agency: 10/07/2013

Facility name: GE INSPECTION SVCS Actual: Facility address: 7445 WHITEPINE RD 202 ft.

NORTH CHESTERFIELD, VA 23237

EPA ID: VAD988202610

Mailing address: 7445 WHITE PINE RD RICHMOND, VA 23237

Contact: JAMES SPEESE Contact address: 7445 WHITEPINE RD

RICHMOND, VA 23237

Contact country: US

804-271-6771 Contact telephone: Contact email: Not reported

EPA Region: 03 Land type: Private

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: **OPERNAME** Owner/operator address: **OPERSTREET**

OPERCITY, AK 99999

Owner/operator country: US

Owner/operator telephone: 215-555-1212 Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Private Legal status: Owner/Operator Type: Operator Owner/Op start date: Not reported Owner/Op end date: Not reported

Owner/operator name: LANDMARK CO OF VA Owner/operator address: 3969 DEEP ROCK RD

RICHMOND, VA 23233

US Owner/operator country:

804-270-7367 Owner/operator telephone: Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: Not reported Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:

EDR ID Number

ECHO

Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

GE INSPECTION SVCS (Continued) 1000581526

Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: Nο On-site burner exemption: No Furnace exemption: No Used oil fuel burner: Nο Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: Nο

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002

. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

DISPOSED. THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003

. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS

NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE

OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D011
Waste name: SILVER

. Waste code: F001

. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING:

TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED

IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE

SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002

. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE,

METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,

CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE,

MAP FINDINGS Map ID Direction

Distance Elevation Site Database(s)

GE INSPECTION SVCS (Continued)

1000581526

EDR ID Number

EPA ID Number

ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003

THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL Waste name:

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

MIXTURES.

F005 Waste code:

THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL Waste name:

KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE,

2-ETHOXYETHANOL. AND 2-NITROPROPANE: ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF

THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Historical Generators:

Date form received by agency: 07/03/1991

GE INSPECTION SVCS Site name: Classification: Small Quantity Generator

Waste code: D001

IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF Waste name:

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002

A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS Waste name:

> CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code:

A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS Waste name:

> NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE

OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Distance

Elevation Site Database(s) EPA ID Number

GE INSPECTION SVCS (Continued)

1000581526

EDR ID Number

. Waste code: D011 . Waste name: SILVER

. Waste code: F001

. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING:

TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED

FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED

IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE

SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F002

Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE,

METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,

CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND

1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND

SPENT SOLVENT MIXTURES.

Waste code: F003

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT
MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT
NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS
CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED
SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR
MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL
BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

MIXTURES.

. Waste code: F005

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL

KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE,

2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF

THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 02/27/2009

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

State

FINDS:

Registry ID: 110005246894

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

GE INSPECTION SVCS (Continued)

1000581526

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000581526 Registry ID: 110005246894

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110005246894

H19 **MARUCHAN VIRGINIA INC** RCRA-CESQG 1004611490 **8101 WHITEPINE RD** VAD988221107 West US AIRS

1/8-1/4 NORTH CHESTERFIELD, VA 23237

0.220 mi.

1164 ft. Site 1 of 2 in cluster H

Relative: RCRA-CESQG:

Higher Date form received by agency: 10/07/2013

Facility name: MARUCHAN VIRGINIA INC Actual: Facility address: 8101 WHITEPINE RD 212 ft.

NORTH CHESTERFIELD, VA 23237

EPA ID: VAD988221107

Contact: NOBUHIDE KANESHIGE Contact address: 8101 WHITEPINE RD

RICHMOND, VA 23237

Contact country: US

804-275-2800 Contact telephone: Contact email: Not reported

EPA Region: 03

Conditionally Exempt Small Quantity Generator Classification:

Description: Handler: generates 100 kg or less of hazardous waste per calendar

> month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less

of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from

the cleanup of a spill, into or on any land or water, of acutely

hazardous waste

Owner/Operator Summary:

Owner/operator name: MARUCHAN VIRGINIA INC Owner/operator address: 8101 WHITEPINE RD RICHMOND, VA 23237

Owner/operator country: US

Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

MARUCHAN VIRGINIA INC (Continued)

1004611490

Owner/operator telephone: 804-275-2800 Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner Owner/Op start date: Not reported Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): Nο Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: Nο Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Waste code:

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

> LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET. WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

F003 Waste code:

THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL Waste name:

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS: AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

MIXTURES.

. Waste code: U044

Direction Distance

Elevation Site Database(s) EPA ID Number

MARUCHAN VIRGINIA INC (Continued)

1004611490

EDR ID Number

. Waste name: CHLOROFORM

Historical Generators:

Date form received by agency: 08/31/1992

Site name: MARUCHAN VIRGINIA INC

Classification: Conditionally Exempt Small Quantity Generator

Waste code: D00

. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002

. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: F003

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

MIXTURES.

. Waste code: U044

. Waste name: CHLOROFORM

Violation Status: No violations found

US AIRS (AFS):

Envid: 1004611490 Region Code: 03 County Code: VA041

Programmatic ID: AIR VA0000005104100122

Facility Registry ID: 110008197940 D and B Number: Not reported

Facility Site Name: MARUCHAN VIRGINIA INC

Primary SIC Code:

NAICS Code:

Default Air Classification Code:

Facility Type of Ownership Code:

Air CMS Category Code:

HPV Status:

Not reported

Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

MARUCHAN VIRGINIA INC (Continued)

1004611490

EDR ID Number

US AIRS (AFS):

Region Code: 03

Programmatic ID: AIR VA0000005104100122

Facility Registry ID: 110008197940

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 2015-04-08 00:00:00
Activity Status Date: 2015-06-04 10:07:26
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 03

Programmatic ID: AIR VA0000005104100122

Facility Registry ID: 110008197940

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 1997-08-27 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 03

Programmatic ID: AIR VA0000005104100122

Facility Registry ID: 110008197940

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 1999-08-31 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 03

Programmatic ID: AIR VA0000005104100122

Facility Registry ID: 110008197940

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 2005-12-06 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 03

Programmatic ID: AIR VA0000005104100122

Facility Registry ID: 110008197940

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 2006-04-06 00:00:00

Activity Status Date: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

MARUCHAN VIRGINIA INC (Continued)

1004611490

EDR ID Number

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 03

Programmatic ID: AIR VA0000005104100122

Facility Registry ID: 110008197940

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 2006-07-13 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 03

Programmatic ID: AIR VA0000005104100122

Facility Registry ID: 110008197940

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: New Source Performance Standards

Activity Date: 2010-09-13 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 03

Programmatic ID: AIR VA0000005104100122

Facility Registry ID: 110008197940

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2015-04-08 00:00:00
Activity Status Date: 2015-06-04 10:07:26
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 03

Programmatic ID: AIR VA0000005104100122

Facility Registry ID: 110008197940

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1995-02-10 00:00:00
Activity Status Date: Not reported

Activity Group: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 03

Programmatic ID: AIR VA0000005104100122

Facility Registry ID: 110008197940

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Direction Distance

Elevation Site Database(s) EPA ID Number

MARUCHAN VIRGINIA INC (Continued)

1004611490

EDR ID Number

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1997-08-27 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 03

Programmatic ID: AIR VA0000005104100122

Facility Registry ID: 110008197940

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1999-08-31 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 03

Programmatic ID: AIR VA0000005104100122

Facility Registry ID: 110008197940 Air Operating Status Code: OPR

Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2005-12-06 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 03

Programmatic ID: AIR VA0000005104100122

Facility Registry ID: 110008197940

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2006-04-06 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 03

Programmatic ID: AIR VA0000005104100122

Facility Registry ID: 110008197940
Air Operating Status Code: OPR

Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2006-04-17 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 03

Programmatic ID: AIR VA0000005104100122

Direction Distance

Elevation Site Database(s) EPA ID Number

MARUCHAN VIRGINIA INC (Continued)

1004611490

EDR ID Number

Facility Registry ID: 110008197940

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2006-07-06 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 03

Programmatic ID: AIR VA0000005104100122

Facility Registry ID: 110008197940

Air Operating Status Code: OPR
Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2006-07-13 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 03

Programmatic ID: AIR VA0000005104100122

Facility Registry ID: 110008197940

Air Operating Status Code: OPR Default Air Classification Code: SMI

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2010-09-13 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

H20 MARUCHAN VIRGINIA INC PA MANIFEST S116738163
West 8101 WHITE PINE RD N/A

1/8-1/4 0.220 mi.

1164 ft. Site 2 of 2 in cluster H

Relative: Manifest Details: Higher Year:

Higher Year: 2013
Actual: Manifest Number: 00664

RICHMOND, VA 23237

 Actual:
 Manifest Number:
 006649498JJK

 212 ft.
 Manifest Type:
 TSD Copy

 Generator EPA Id:
 VAD988221107

 Generator Date:
 06/06/2013

Generator Date: 06/06/2013

Mailing Address: Not reported

Mailing City,St,Zip: Not reported

Contact Name: Not reported

Contact Phone: Not reported

TSD EPA Id: Not reported

TSD Date: Not reported

TSD Facility Name: Republic Environmental Systems of PA Inc

TSD Facility Address: 2869 Sandstone Dr

TSD Facility City: Hatfield
TSD Facility State: PA

Facility Telephone: Not reported

Direction Distance Elevation

tion Site Database(s) EPA ID Number

MARUCHAN VIRGINIA INC (Continued)

S116738163

EDR ID Number

Page Number: 1
Line Number: 3
Waste Number: D002
Container Number: 1

Container Type: Fiberboard or plastic drums, barrels, kegs

Waste Quantity: 55

Unit: Gallons (liquids only)
Handling Code: Not reported
TSP EPA Id: PAD085690592
Date TSP Sig: Not reported

Year: 2013

006649498JJK Manifest Number: Manifest Type: TSD Copy VAD988221107 Generator EPA Id: Generator Date: 06/06/2013 Mailing Address: Not reported Mailing City, St, Zip: Not reported Contact Name: Not reported Contact Phone: Not reported TSD EPA Id: Not reported TSD Date: Not reported

TSD Facility Name: Republic Environmental Systems of PA Inc

TSD Facility Address: 2869 Sandstone Dr

TSD Facility City: Hatfield
TSD Facility State: PA
Facility Telephone: Not reported
Page Number: 1

Fage Number: 1
Line Number: 2
Waste Number: D002
Container Number: 1

Container Type: Fiberboard or plastic drums, barrels, kegs

Waste Quantity: 30

Unit: Gallons (liquids only)

Handling Code: Not reported
TSP EPA Id: PAD085690592
Date TSP Sig: Not reported

Year: 2013

006649498JJK Manifest Number: Manifest Type: TSD Copy Generator EPA Id: VAD988221107 Generator Date: 06/06/2013 Mailing Address: Not reported Mailing City, St, Zip: Not reported Contact Name: Not reported Contact Phone: Not reported TSD EPA Id: Not reported TSD Date: Not reported

TSD Facility Name: Republic Environmental Systems of PA Inc

TSD Facility Address: 2869 Sandstone Dr

TSD Facility City: Hatfield
TSD Facility State: PA
Facility Telephone: Not reported

Page Number: 1
Line Number: 1
Waste Number: D002

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MARUCHAN VIRGINIA INC (Continued)

S116738163

Container Number:

Fiberboard or plastic drums, barrels, kegs Container Type:

Waste Quantity:

Unit: Gallons (liquids only) Handling Code: Not reported PAD085690592 TSP EPA Id: Date TSP Sig: Not reported

FRITO LAY SALES DISTRIBUTION CTR 21 SW **8010 WHITEBARK TER**

RICHMOND, VA 23237

VA LUST U003686162 **VA LTANKS** N/A **VA UST**

1/4-1/2 0.278 mi. 1467 ft.

Relative: LUST REG PD:

Higher PD Region: Status: Closed Actual: Pollution Complaint #: 19939404 221 ft. PRO Reg Code:

> PD Region: Status: Closed Pollution Complaint #: 19900100 Reg Code: **PRO**

LTANKS:

PRO Region:

200000171643 CEDS Facility Id: Case Status: Closed Pollution Complaint #: 19900100 Reported: 07/20/1989 Case Closed Date: 12/28/1989 RP Lead Program:

Federally Regulated UST (Y/N): Regulated Petroleum UST (1): Υ Excluded UST (1): Ν Deferred UST (1): Ν Partially Deferred UST (1): Ν Exempt 1 UST (2): Ν Exempt 2 Heating Oil UST (2): Ν Small Heating Oil AST (2): Ν Regulated AST (3): Ν Unregulated AST (3): Ν Other Y/N: Ν Unknown Y/N:

Other Description: Not reported Heating Oil Category: Not reported

Facility:

Facility Id: 4016485 Facility Type: COMMERCIAL CEDS Facility ID: 200000171643

Owner:

Owner Id: 28775 Owner Name: Frito-Lay Inc Owner Address: 7701 Legacy Dr

Direction Distance Elevation

EDR ID Number Site Database(s) **EPA ID Number**

1

FRITO LAY SALES DISTRIBUTION CTR (Continued)

U003686162

Owner Address2: Not reported Plano, TX 75024 Owner City, State, Zip: Owner Type: **PRIVATE** Number of Active AST: 0 Number of Active UST: 0 Number of Inactive AST: 0 Number of Inactive UST:

UST:

Facility ID: 4016485 Federally Regulated: Yes

Tank Number: R1 Tank Capacity: 10000 Tank Contents: **DIESEL**

REM FROM GRD Tank Status:

Tank Type: UST

Tank Material:

5/6/1982 Install Date: Tank Materials: Bare Steel Yes Tank Materials: Cath Protect Steel No Tank Materials: Epoxy Steel No Tank Materials: Fiberglass No Tank Materials: Concrete No Tank Materials: Composite Nο Tank Materials: Double Walled No Tank Materials: Lined Interior No Tank Materials: Excav Liner No Tank Materials: Insulated Tank Jacket No Tank Materials: Repaired No Tank Materials: Unknown No Tank Materials: Other No

Tank Materials: Other Note Not reported

Release Detection:

Tank Release Detection: Leak Deferred No Tank Release Detection: Manual Gauge No Tank Release Detection: Auto Gauge No Tank Release Detection: Tank Tightness No Tank Release Detection: Vapor Monitor No Tank Release Detection: Inventory No Tank Release Detection: Stat Invent Recon No Tank Release Detection: Spill Install No Tank Release Detection: Overfill Install Nο Tank Release Detection: Groundwater No Tank Release Detection: Int Sec Containment No Tank Release Detection: Int Double Walled No Tank Release Detection: Other Method No

Tank Release Detection: Other Note Not reported Pipe Release Detection: Leak Deferred Not reported Pipe Release Detection: Autoleak Not reported

Pipe Release Detection: Line Tightness No Pipe Release Detection: Stat Invent Recon No Pipe Release Detection: Groundwater No Pipe Release Detection: Int Sec Containment No Pipe Release Det: Interior Double Walled No

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FRITO LAY SALES DISTRIBUTION CTR (Continued)

U003686162

Pipe Release Detection: Other Method No

Pipe Release Detection: Other Note Not reported

UNKNOWN Pipe Type:

Pipe Materials: Bare Steel Yes Pipe Materials: Galvanized Steel No Pipe Materials: Copper No Pipe Materials: Fiberglass No Pipe Materials: Cath Protect No Pipe Materials: Double Walled No Pipe Materials: Sec Containment No Pipe Materials: Repaired No Pipe Materials: Unknown Yes Pipe Materials: Other No

Pipe Materials: Other Note Not reported

WAREHOUSE DISTRIBUTION CENTER 22 SW **8030 WHITEBARK TERRACE** CHESTERFIELD, VA 23237 1/4-1/2

U003995795 **VA LTANKS VA UST** N/A **VA Financial Assurance**

0.280 mi. 1481 ft.

Relative: LTANKS: Higher Region: PRO

CEDS Facility Id: 200000870140 Actual: Case Status: Closed 220 ft.

Pollution Complaint #: 20164430 Reported: 03/10/2016 Case Closed Date: 04/19/2016 Program: RP Lead Federally Regulated UST (Y/N): Regulated Petroleum UST (1): Υ Excluded UST (1): Ν Deferred UST (1): Ν Partially Deferred UST (1): Ν

Exempt 1 UST (2): Ν Exempt 2 Heating Oil UST (2): Ν Small Heating Oil AST (2): N Regulated AST (3): Ν Unregulated AST (3): Ν Other Y/N: Ν Unknown Y/N:

Not reported Other Description: Heating Oil Category: Not reported

Facility:

Facility Id: 4039565 Facility Type: STATE CEDS Facility ID: 200000870140

Owner:

Owner Id: 42297

Owner Name: **DOC Correctional Enterprises**

Owner Address: 8030 White Bark Terr

Owner Address2: Not reported

Owner City, State, Zip: Chesterfield, VA 23832

Owner Type: STATE

Direction
Distance
Elevation

n Site Database(s) EPA ID Number

WAREHOUSE DISTRIBUTION CENTER (Continued)

Number of Inactive UST:

Number of Active AST: 0
Number of Active UST: 1
Number of Inactive AST: 0

1

UST:

Facility ID: 4039565 Federally Regulated: Yes

 Tank Number:
 1

 Tank Capacity:
 10000

 Tank Contents:
 DIESEL

 Tank Status:
 CURR IN USE

Tank Type: UST

Tank Material:

10/1/1992 Install Date: Tank Materials: Bare Steel No Tank Materials: Cath Protect Steel No Tank Materials: Epoxy Steel No Tank Materials: Fiberglass Yes Tank Materials: Concrete No Tank Materials: Composite No Tank Materials: Double Walled No Tank Materials: Lined Interior No Tank Materials: Excav Liner Nο Tank Materials: Insulated Tank Jacket No Tank Materials: Repaired No Tank Materials: Unknown No Tank Materials: Other No

Tank Materials: Other Note Not reported

Release Detection:

Tank Release Detection: Leak Deferred No Tank Release Detection: Manual Gauge No Tank Release Detection: Auto Gauge Yes Tank Release Detection: Tank Tightness No Tank Release Detection: Vapor Monitor No Tank Release Detection: Inventory No Tank Release Detection: Stat Invent Recon No Tank Release Detection: Spill Install Yes Tank Release Detection: Overfill Install Yes Tank Release Detection: Groundwater No Tank Release Detection: Int Sec Containment No Tank Release Detection: Int Double Walled Nο Tank Release Detection: Other Method No

Tank Release Detection: Other Note Not reported

Pipe Release Detection: Leak Deferred No

Pipe Release Detection: Autoleak Not reported

Pipe Release Detection: Line Tightness No
Pipe Release Detection: Stat Invent Recon No
Pipe Release Detection: Groundwater No
Pipe Release Detection: Int Sec Containment No
Pipe Release Det: Interior Double Walled No
Pipe Release Detection: Other Method No

Pipe Release Detection: Other Note Not reported

EDR ID Number

U003995795

Direction Distance Elevation

Site Database(s) **EPA ID Number**

No

WAREHOUSE DISTRIBUTION CENTER (Continued)

U003995795

EDR ID Number

Pipe Type: NO VALVE: SUCTION Pipe Materials: Bare Steel No Pipe Materials: Galvanized Steel No Pipe Materials: Copper No Pipe Materials: Fiberglass Yes Pipe Materials: Cath Protect No Pipe Materials: Double Walled No Pipe Materials: Sec Containment No Pipe Materials: Repaired No Pipe Materials: Unknown No Pipe Materials: Other

Pipe Materials: Other Note Not reported

4039565 Facility ID: Federally Regulated: Yes

Tank Number: 2 Tank Capacity: 1000 **GASOLINE** Tank Contents: **REM FROM GRD** Tank Status:

Tank Type: UST

Tank Material:

10/1/1992 Install Date: Tank Materials: Bare Steel No Tank Materials: Cath Protect Steel No Tank Materials: Epoxy Steel No Tank Materials: Fiberglass Yes Tank Materials: Concrete No Tank Materials: Composite No Tank Materials: Double Walled No Tank Materials: Lined Interior No Tank Materials: Excav Liner No Tank Materials: Insulated Tank Jacket No Tank Materials: Repaired No Tank Materials: Unknown No Tank Materials: Other No

Tank Materials: Other Note Not reported

Release Detection:

Tank Release Detection: Leak Deferred No Tank Release Detection: Manual Gauge No Tank Release Detection: Auto Gauge Yes Tank Release Detection: Tank Tightness No Tank Release Detection: Vapor Monitor No Tank Release Detection: Inventory No Tank Release Detection: Stat Invent Recon No Tank Release Detection: Spill Install Yes Tank Release Detection: Overfill Install Yes Tank Release Detection: Groundwater No Tank Release Detection: Int Sec Containment No Tank Release Detection: Int Double Walled No Tank Release Detection: Other Method No

Not reported Tank Release Detection: Other Note

Pipe Release Detection: Leak Deferred No

Pipe Release Detection: Autoleak Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WAREHOUSE DISTRIBUTION CENTER (Continued)

U003995795

Pipe Release Detection: Line Tightness No Pipe Release Detection: Stat Invent Recon No Pipe Release Detection: Groundwater No Pipe Release Detection: Int Sec Containment No Pipe Release Det: Interior Double Walled No Pipe Release Detection: Other Method No

Pipe Release Detection: Other Note Not reported

NO VALVE: SUCTION Pipe Type:

Pipe Materials: Bare Steel No Pipe Materials: Galvanized Steel No Pipe Materials: Copper No Pipe Materials: Fiberglass Yes Pipe Materials: Cath Protect No Pipe Materials: Double Walled No Pipe Materials: Sec Containment No Pipe Materials: Repaired No Pipe Materials: Unknown No Pipe Materials: Other No

Pipe Materials: Other Note Not reported

VA Financial Assurance 1:

4039565 Facility ID:

Owner Name: **DOC Correctional Enterprises**

ROF Own Id: 42297 UST Tank Type: Mechanism: Not reported Gallonage: Not reported Not reported Per Occurence: Third Party: Not reported Annual Aggregate: Not reported In Compliance: Not reported **Total Capacity:** 10000

CEDS Facility Name:

Virginia Correctional Enterprises

CURR IN USE Tank Status:

Active Federally Regualted UST: Y

KROMA USA INCORPORATED 23 SW **8031 WHITEBARK TER**

1/4-1/2 RICHMOND, VA 23237 0.358 mi. 1892 ft.

Relative: LUST REG PD:

Higher PD Region: Status: Closed Actual: 20018201 Pollution Complaint #: 218 ft. Reg Code: **PRO**

LTANKS:

PRO Region:

200000163377 CEDS Facility Id: Case Status: Closed Pollution Complaint #: 20018201 Reported: 06/22/2001 Case Closed Date: 12/26/2002

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VA LUST

VA UST

VA LTANKS

U003686881

N/A

Direction Distance Elevation

Site Database(s) EPA ID Number

KROMA USA INCORPORATED (Continued)

U003686881

EDR ID Number

RP Lead Program: Federally Regulated UST (Y/N): Υ Regulated Petroleum UST (1): Υ Excluded UST (1): Ν Deferred UST (1): Partially Deferred UST (1): Ν Exempt 1 UST (2): N Exempt 2 Heating Oil UST (2): Ν Small Heating Oil AST (2): Ν Regulated AST (3): Ν Unregulated AST (3): Ν Other Y/N: Ν Unknown Y/N: Ν

Other Description: Not reported Heating Oil Category: Not reported

Facility:

 Facility Id:
 4018905

 Facility Type:
 INDUSTRIAL

 CEDS Facility ID:
 200000163377

Owner:

Owner Id: 33986

Owner Name: Kroma USA Inc
Owner Address: 8031 Whitebark Ter
Owner Address2: Not reported
Owner City, State, Zip: Richmond, VA 23237
Owner Type: COMMERCIAL

Number of Active AST: 0
Number of Active UST: 0
Number of Inactive AST: 0
Number of Inactive UST: 5

UST:

Facility ID: 4018905 Federally Regulated: Yes

Tank Number: R1
Tank Capacity: 10000
Tank Contents: HAZARDOUS
Tank Status: REM FROM GRD

Tank Type: UST

Tank Material:

Install Date: 8/1/1983 Tank Materials: Bare Steel No Tank Materials: Cath Protect Steel Yes Tank Materials: Epoxy Steel No Tank Materials: Fiberglass No Tank Materials: Concrete No Tank Materials: Composite No Tank Materials: Double Walled No Tank Materials: Lined Interior No Tank Materials: Excav Liner No No Tank Materials: Insulated Tank Jacket Tank Materials: Repaired No Tank Materials: Unknown No

Direction
Distance
Elevation

e EDR ID Number on Site Database(s) EPA ID Number

KROMA USA INCORPORATED (Continued)

U003686881

Tank Materials: Other	No
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Tank Materials: Other Note Not reported

Release Detection:

Tank Release Detection: Leak Deferred No Tank Release Detection: Manual Gauge No Tank Release Detection: Auto Gauge No Tank Release Detection: Tank Tightness No Tank Release Detection: Vapor Monitor No Tank Release Detection: Inventory No Tank Release Detection: Stat Invent Recon No Tank Release Detection: Spill Install Nο Tank Release Detection: Overfill Install No Tank Release Detection: Groundwater No Tank Release Detection: Int Sec Containment No Tank Release Detection: Int Double Walled No Tank Release Detection: Other Method No

Tank Release Detection: Other Note
Pipe Release Detection: Leak Deferred
Pipe Release Detection: Autoleak
Not reported
Not reported

Pipe Release Detection: Line Tightness No
Pipe Release Detection: Stat Invent Recon No
Pipe Release Detection: Groundwater No
Pipe Release Detection: Int Sec Containment No
Pipe Release Det: Interior Double Walled No
Pipe Release Detection: Other Method No

Pipe Release Detection: Other Note Not reported

Pipe Type: UNKNOWN

Pipe Materials: Bare Steel No Pipe Materials: Galvanized Steel Yes Pipe Materials: Copper No Pipe Materials: Fiberglass No Pipe Materials: Cath Protect Yes Pipe Materials: Double Walled No Pipe Materials: Sec Containment No Pipe Materials: Repaired No Pipe Materials: Unknown No Pipe Materials: Other No

Pipe Materials: Other Note Not reported

Facility ID: 4018905 Federally Regulated: Yes

Tank Number: R2
Tank Capacity: 5000

Tank Contents: HAZARDOUS
Tank Status: REM FROM GRD

Tank Type: UST

Tank Material:

Install Date: 8/1/1983
Tank Materials: Bare Steel No
Tank Materials: Cath Protect Steel Yes
Tank Materials: Epoxy Steel No
Tank Materials: Fiberglass No

Direction Distance Elevation

Site Database(s) EPA ID Number

KROMA USA INCORPORATED (Continued)

U003686881

EDR ID Number

Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No
Tank Materials: Other	Nο

Tank Materials: Other Note Not reported

Release Detection:

Tank Release Detection: Leak Deferred No Tank Release Detection: Manual Gauge No Tank Release Detection: Auto Gauge No Tank Release Detection: Tank Tightness No Tank Release Detection: Vapor Monitor No Tank Release Detection: Inventory No Tank Release Detection: Stat Invent Recon No Tank Release Detection: Spill Install No Tank Release Detection: Overfill Install Nο Tank Release Detection: Groundwater No Tank Release Detection: Int Sec Containment No Tank Release Detection: Int Double Walled No Tank Release Detection: Other Method No

Tank Release Detection: Other Note
Pipe Release Detection: Leak Deferred
Pipe Release Detection: Autoleak
Not reported
Not reported

Pipe Release Detection: Line Tightness No
Pipe Release Detection: Stat Invent Recon No
Pipe Release Detection: Groundwater No
Pipe Release Detection: Int Sec Containment No
Pipe Release Det: Interior Double Walled No
Pipe Release Detection: Other Method No

Pipe Release Detection: Other Note Not reported

Pipe Type: UNKNOWN

Pipe Materials: Bare Steel No Pipe Materials: Galvanized Steel Yes Pipe Materials: Copper No Pipe Materials: Fiberglass No Pipe Materials: Cath Protect Yes Pipe Materials: Double Walled No Pipe Materials: Sec Containment No Pipe Materials: Repaired No Pipe Materials: Unknown No Pipe Materials: Other No

Pipe Materials: Other Note Not reported

Facility ID: 4018905 Federally Regulated: Yes

Tank Number: R3
Tank Capacity: 5000

Tank Contents: HAZARDOUS
Tank Status: REM FROM GRD

Direction Distance Elevation

Site Database(s) EPA ID Number

No

KROMA USA INCORPORATED (Continued)

U003686881

EDR ID Number

Tank Type:	UST
,,	
Tank Material:	
Install Date:	8/1/1983
Tank Materials: Bare Steel	No
Tank Materials: Cath Protect Steel	Yes
Tank Materials: Epoxy Steel	No
Tank Materials: Fiberglass	No
Tank Materials: Concrete	No
Tank Materials: Composite	No
Tank Materials: Double Walled	No
Tank Materials: Lined Interior	No
Tank Materials: Excav Liner	No
Tank Materials: Insulated Tank Jacket	No
Tank Materials: Repaired	No
Tank Materials: Unknown	No

Tank Materials: Other Note Not reported

Release Detection:

Tank Materials: Other

Tank Release Detection: Leak Deferred	No
Tank Release Detection: Manual Gauge	No
Tank Release Detection: Auto Gauge	No
Tank Release Detection:Tank Tightness	No
Tank Release Detection: Vapor Monitor	No
Tank Release Detection: Inventory	No
Tank Release Detection: Stat Invent Recon	No
Tank Release Detection: Spill Install	No
Tank Release Detection: Overfill Install	No
Tank Release Detection: Groundwater	No
Tank Release Detection: Int Sec Containment	No
Tank Release Detection: Int Double Walled	No
Tank Release Detection: Other Method	No

Tank Release Detection: Other Note
Pipe Release Detection: Leak Deferred
Pipe Release Detection: Autoleak
Pipe Release Detection: Line Tightness
Not reported
Not reported
Not reported
Not reported
Not reported
Not reported
Not reported

Pipe Release Detection: Stat Invent Recon
Pipe Release Detection: Groundwater
Pipe Release Detection: Int Sec Containment
Pipe Release Detection: Int Sec Containment
Pipe Release Detection: Other Method
No

Pipe Release Detection: Other Note Not reported

Pipe Type: UNKNOWN

Pipe Materials: Bare Steel No Pipe Materials: Galvanized Steel Yes Pipe Materials: Copper No Pipe Materials: Fiberglass No Pipe Materials: Cath Protect Yes Pipe Materials: Double Walled No Pipe Materials: Sec Containment No Pipe Materials: Repaired No Pipe Materials: Unknown No Pipe Materials: Other No

Pipe Materials: Other Note Not reported

Direction Distance Elevation

ce EDR ID Number on Site Database(s) EPA ID Number

KROMA USA INCORPORATED (Continued)

U003686881

Facility ID: 4018905 Federally Regulated: Yes

Tank Number: R4
Tank Capacity: 5000

Tank Contents: HAZARDOUS
Tank Status: REM FROM GRD

Tank Type: UST

Tank Material:

Install Date: 8/1/1983 Tank Materials: Bare Steel No Tank Materials: Cath Protect Steel Yes Tank Materials: Epoxy Steel No Tank Materials: Fiberglass No Tank Materials: Concrete No Tank Materials: Composite No Tank Materials: Double Walled No Tank Materials: Lined Interior No Tank Materials: Excav Liner No Tank Materials: Insulated Tank Jacket No Tank Materials: Repaired Nο Tank Materials: Unknown No Tank Materials: Other No

Tank Materials: Other Note Not reported

Release Detection:

Tank Release Detection: Leak Deferred No Tank Release Detection: Manual Gauge No Tank Release Detection: Auto Gauge No Tank Release Detection: Tank Tightness No Tank Release Detection: Vapor Monitor No Tank Release Detection: Inventory No Tank Release Detection: Stat Invent Recon No Tank Release Detection: Spill Install No Tank Release Detection: Overfill Install No Tank Release Detection: Groundwater No Tank Release Detection: Int Sec Containment No Tank Release Detection: Int Double Walled No Tank Release Detection: Other Method No

Tank Release Detection: Other Note
Pipe Release Detection: Leak Deferred
Pipe Release Detection: Autoleak
Not reported
Not reported

Pipe Release Detection: Line Tightness No
Pipe Release Detection: Stat Invent Recon No
Pipe Release Detection: Groundwater No
Pipe Release Detection: Int Sec Containment No
Pipe Release Det: Interior Double Walled No
Pipe Release Detection: Other Method No

Pipe Release Detection: Other Note Not reported

Pipe Type: UNKNOWN

Pipe Materials: Bare Steel No
Pipe Materials: Galvanized Steel Yes
Pipe Materials: Copper No
Pipe Materials: Fiberglass No
Pipe Materials: Cath Protect Yes

Direction Distance Elevation

EDR ID Number
Site Database(s) EPA ID Number

KROMA USA INCORPORATED (Continued)

U003686881

Pipe Materials: Double Walled No
Pipe Materials: Sec Containment No
Pipe Materials: Repaired No
Pipe Materials: Unknown No
Pipe Materials: Other No

Pipe Materials: Other Note Not reported

Facility ID: 4018905 Federally Regulated: Yes

Tank Number: R5
Tank Capacity: 10000
Tank Contents: HAZAF

Tank Contents: HAZARDOUS
Tank Status: REM FROM GRD

Tank Type: UST

Tank Material:

Install Date: 8/1/1983 Tank Materials: Bare Steel No Tank Materials: Cath Protect Steel Yes Tank Materials: Epoxy Steel Nο Tank Materials: Fiberglass No Tank Materials: Concrete No Tank Materials: Composite No Tank Materials: Double Walled No Tank Materials: Lined Interior Nο Tank Materials: Excav Liner No Tank Materials: Insulated Tank Jacket No Tank Materials: Repaired No Tank Materials: Unknown No

Tank Materials: Other Note Not reported

No

Release Detection:

Tank Materials: Other

Tank Release Detection: Leak Deferred No Tank Release Detection: Manual Gauge No Tank Release Detection: Auto Gauge No Tank Release Detection: Tank Tightness No Tank Release Detection: Vapor Monitor No Tank Release Detection: Inventory No Tank Release Detection: Stat Invent Recon No Tank Release Detection: Spill Install No Tank Release Detection: Overfill Install No Tank Release Detection: Groundwater No Tank Release Detection: Int Sec Containment No Tank Release Detection: Int Double Walled No Tank Release Detection: Other Method No

Tank Release Detection: Other Note Not reported Pipe Release Detection: Leak Deferred Not reported Pipe Release Detection: Autoleak Not reported

Pipe Release Detection: Line Tightness
No
Pipe Release Detection: Stat Invent Recon
Pipe Release Detection: Groundwater
No
Pipe Release Detection: Int Sec Containment
Pipe Release Det: Interior Double Walled
No
Pipe Release Detection: Other Method
No

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

KROMA USA INCORPORATED (Continued)

U003686881

S103534028

N/A

VA LUST

VA LTANKS

Pipe Release Detection: Other Note Not reported

UNKNOWN Pipe Type: Pipe Materials: Bare Steel No Pipe Materials: Galvanized Steel Yes

Pipe Materials: Copper No Pipe Materials: Fiberglass No Pipe Materials: Cath Protect Yes Pipe Materials: Double Walled No Pipe Materials: Sec Containment No Pipe Materials: Repaired No Pipe Materials: Unknown No Pipe Materials: Other No

Pipe Materials: Other Note Not reported

24 FLOYD RESIDENCE NNW 7800 COGBILL RD 1/4-1/2 CHESTERFIELD, VA 23832

0.405 mi. 2141 ft.

Relative: LUST REG PD:

Higher PD Region: Status: Closed Actual: Pollution Complaint #: 19994097 247 ft. Reg Code: **PRO**

LTANKS:

Region: PRO CEDS Facility Id: 200000188938

Case Status: Closed Pollution Complaint #: 19994097 09/14/1998 Reported: Case Closed Date: 12/15/1998 Program: RP Lead Federally Regulated UST (Y/N): Ν Regulated Petroleum UST (1): Ν Excluded UST (1): Ν Deferred UST (1): Ν Partially Deferred UST (1): Ν Exempt 1 UST (2): Ν Exempt 2 Heating Oil UST (2): Small Heating Oil AST (2): Ν

Regulated AST (3): Ν Unregulated AST (3): Ν Other Y/N: N Unknown Y/N: Ν

Other Description: Not reported Heating Oil Category: Category 2

Count: 4 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CHESTERFIELD	S105695775	RIDGEDALE PARKWAY PROPERTY	5200 IRON BRIDGE RD	23832	VA LUST, VA LTANKS
CHESTERFIELD	S108231104	WATERMARK LAKE	IRON BRIDGE RD AND ROUTE 10	23832	VA LUST, VA LTANKS
RICHMOND	S105984426	VDOT EZ SHOP	ROUTE 10 AND COGBILL RD	23234	VA LUST, VA LTANKS
RICHMOND	U003684525	AIRPORT PUMP STATION	7130 AIRFIELD DR	23237	VA UST

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/12/2018 Source: EPA
Date Data Arrived at EDR: 12/28/2018 Telephone: N/A

Number of Days to Update: 14 Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/12/2018 Source: EPA
Date Data Arrived at EDR: 12/28/2018 Telephone: N/A
Date Made Active in Reports: 01/11/2019 Last EDR Conta

Date Made Active in Reports: 01/11/2019 Last EDR Contact: 02/15/2019

Number of Days to Update: 14 Next Scheduled EDR Contact: 0-

Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA

Telephone: 202-564-4267 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/12/2018 Date Data Arrived at EDR: 12/28/2018 Date Made Active in Reports: 01/11/2019

Number of Days to Update: 14

Source: EPA Telephone: N/A

Last EDR Contact: 02/15/2019

Next Scheduled EDR Contact: 04/15/2019 Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016 Date Data Arrived at EDR: 01/05/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 92

Source: Environmental Protection Agency Telephone: 703-603-8704

Last EDR Contact: 01/04/2019

Next Scheduled EDR Contact: 04/15/2019 Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/12/2018 Date Data Arrived at EDR: 12/28/2018 Date Made Active in Reports: 01/11/2019

Number of Days to Update: 14

Source: EPA Telephone: 800-424-9346

Last EDR Contact: 02/15/2019

Next Scheduled EDR Contact: 04/29/2019 Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019

Number of Days to Update: 14

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 02/15/2019

Next Scheduled EDR Contact: 04/29/2019 Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 12/03/2018

Next Scheduled EDR Contact: 04/08/2019 Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: 800-438-2474 Last EDR Contact: 12/03/2018

Next Scheduled EDR Contact: 04/08/2019 Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: 800-438-2474 Last EDR Contact: 12/03/2018

Next Scheduled EDR Contact: 04/08/2019 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: 800-438-2474 Last EDR Contact: 12/03/2018

Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: 800-438-2474 Last EDR Contact: 12/03/2018

Next Scheduled EDR Contact: 04/08/2019 Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 10/17/2018 Date Data Arrived at EDR: 10/25/2018 Date Made Active in Reports: 12/07/2018

Number of Days to Update: 43

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 02/07/2019

Next Scheduled EDR Contact: 05/27/2019 Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/31/2018 Date Data Arrived at EDR: 08/28/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 17

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 02/04/2019

Next Scheduled EDR Contact: 03/11/2019 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/31/2018 Date Data Arrived at EDR: 08/28/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 17

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 02/04/2019

Next Scheduled EDR Contact: 03/11/2019

Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous

substances.

Date of Government Version: 09/24/2018 Date Data Arrived at EDR: 09/25/2018 Date Made Active in Reports: 11/09/2018

Number of Days to Update: 45

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 02/08/2019

Next Scheduled EDR Contact: 04/08/2019 Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: Department of Environmental Quality

Telephone: 804-698-4236 Last EDR Contact: 12/14/2018

Next Scheduled EDR Contact: 04/01/2019

Data Release Frequency: N/A

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Management Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 12/03/2018 Date Data Arrived at EDR: 12/04/2018 Date Made Active in Reports: 01/30/2019

Number of Days to Update: 57

Source: Department of Environmental Quality

Telephone: 804-698-4238 Last EDR Contact: 12/03/2018

Next Scheduled EDR Contact: 03/18/2019 Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST REG PD: Leaking Underground Storage Tank Sites

Leaking underground storage tank site locaitons. Includes: counties of Amelia, Brunswick, Charles City, Chesterfield, Dinwiddie, Essex, Gloucester, Goochland, Greensville, Hanover, Henrico, King and Queen, King William, Lancaster, Mathews, Middlesex, New Kent, Northumberland, Powhatan, Prince George, Richmond, Surry, Sussex, Westmoreland; cities of Colonial Heights, Emporia, Hopewell, Petersburg.

Date of Government Version: 12/02/2014 Date Data Arrived at EDR: 12/04/2014 Date Made Active in Reports: 01/16/2015

Number of Days to Update: 43

Source: Department of Environmental Quality Piedmont Regional Office

Telephone: 804-527-5020 Last EDR Contact: 08/29/2016

Next Scheduled EDR Contact: 12/12/2016 Data Release Frequency: Quarterly

LUST REG TD: Leaking Underground Storage Tank Sites

Leaking underground storage tank site locations. Includes: counties of Accomack, Isle of Wight, James City, Northampton, Southampton, York; cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, Williamsburg.

Date of Government Version: 06/30/2013 Date Data Arrived at EDR: 07/05/2013 Date Made Active in Reports: 09/16/2013

Number of Days to Update: 73

Source: Department of Environmental Quality Tidewater Regional Office

Telephone: trofoia@deq.vir Last EDR Contact: 09/26/2016

Next Scheduled EDR Contact: 01/09/2017 Data Release Frequency: Quarterly

LUST REG SW: Leaking Underground Storage Tank Database

Leaking underground storage tank site locations. Includes: counties of Bland, Buchanan, Carroll, Dickenson, Grayson, Lee, Russell, Scott, Smyth, Tazewell, Washington, Wise, Wythe; cities of Bristol, Galax, Norton.

Date of Government Version: 07/15/2013 Date Data Arrived at EDR: 07/18/2013 Date Made Active in Reports: 09/16/2013

Number of Days to Update: 60

Source: Department of Environmental Quality Southwest Regional Office

Telephone: 276-676-4800 Last EDR Contact: 10/11/2016

Next Scheduled EDR Contact: 01/23/2017 Data Release Frequency: No Update Planned

LUST REG SC: Leaking Underground Storage Tanks

Leaking underground storage tank site locations. Includes: counties of Amherst, Appomattox, Buckingham, Campbell, Charlotte, Cumberland, Halifax, Lunenburg, Mecklenburg, Nottoway, Pittsylvania, Prince Deward; cities of Danville,

Lynchburg.

Date of Government Version: 09/06/2013 Date Data Arrived at EDR: 09/06/2013 Date Made Active in Reports: 09/17/2013

Number of Days to Update: 11

Source: Department of Environmental Quality, South Central Region

Telephone: 434-582-5120 Last EDR Contact: 08/29/2016

Next Scheduled EDR Contact: 12/12/2016 Data Release Frequency: Semi-Annually

LUST REG WC: Leaking Underground Storage Tank List

Leaking underground storage tank site locations. Includes: counties of Alleghany, Bedford, Botetourt, Craig, Floyd, Franklin, Giles, Henry, Montgomery, Patrick, Pulaski, Roanoke; cities of Bedford, Clifton Forge, Covington, Martinsville, Radford, Roanoke, Salem.

Date of Government Version: 06/04/2015 Date Data Arrived at EDR: 06/05/2015 Date Made Active in Reports: 07/07/2015

Number of Days to Update: 32

Source: Department of Environmental Quality West Central Regional Office

Telephone: 540-562-6700 Last EDR Contact: 08/29/2016

Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: No Update Planned

LUST REG NO: Leaking Underground Storage Tank Tracking Database

Leaking underground storage tank site locations. Includes: counties of Arlington, Caroline, Culpeper, Fairfax, Fauquier, King George, Loudoun, Louisa, Madison, Orange, Prince William, Rappahannock, Spotsylvania, Stafford; cities of Alexandria, Fairfax, Falls Church, Fredericksburg, Manassas, Manassas Park.

Date of Government Version: 05/18/2004 Date Data Arrived at EDR: 05/22/2004 Date Made Active in Reports: 07/09/2004

Number of Days to Update: 48

Source: Department of Environmental Quality Northern Regional Office

Telephone: 703-583-3800 Last EDR Contact: 09/06/2011

Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG VA: Leaking Underground Storage Tank List

Leaking underground storage tank site locations. Includes: counties of Albemarle, Augusta, Bath, Clarke, Fluvanna, Frederick, Greene, Highland, Nelson, Page, Rockbridge, Rockingham, Shenandoah, Warren; cities of Buena Vista, Charlottesville, Harrisonburg, Lexington, Staunton, Waynesboro, Winchester.

Date of Government Version: 12/06/2011 Date Data Arrived at EDR: 12/08/2011 Date Made Active in Reports: 01/16/2012

Number of Days to Update: 39

Source: Department of Environmental Quality Valley Regional Office

Telephone: 540-574-7800 Last EDR Contact: 08/29/2016

Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: No Update Planned

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 01/25/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 01/25/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 01/25/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 01/25/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 01/25/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 01/25/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 01/25/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 01/25/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies

LTANKS: Leaking Petroleum Storage Tanks

Includes releases of petroleum from underground storage tanks and aboveground storage tanks.

Date of Government Version: 10/02/2018 Date Data Arrived at EDR: 11/29/2018 Date Made Active in Reports: 01/30/2019

Number of Days to Update: 62

Source: Department of Environmental Quality

Telephone: 804-698-4010 Last EDR Contact: 11/29/2018

Next Scheduled EDR Contact: 03/11/2019 Data Release Frequency: Quarterly

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017 Date Data Arrived at EDR: 05/30/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 136

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 01/08/2019

Next Scheduled EDR Contact: 04/22/2019

Data Release Frequency: Varies

UST: Registered Petroleum Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 10/30/2018 Date Data Arrived at EDR: 11/29/2018 Date Made Active in Reports: 01/29/2019

Number of Days to Update: 61

Source: Department of Environmental Quality

Telephone: 804-698-4010 Last EDR Contact: 11/29/2018

Next Scheduled EDR Contact: 03/11/2019 Data Release Frequency: Quarterly

AST: Registered Petroleum Storage Tanks Registered Aboveground Storage Tanks.

> Date of Government Version: 10/30/2018 Date Data Arrived at EDR: 11/29/2018 Date Made Active in Reports: 01/29/2019

Number of Days to Update: 61

Source: Department of Environmental Quality

Telephone: 804-698-4010 Last EDR Contact: 11/29/2018

Next Scheduled EDR Contact: 03/11/2019 Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 01/25/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 01/25/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 01/25/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 01/25/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 01/25/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 01/25/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 01/25/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 01/25/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Sites Listing

A listing of sites with Engineering Controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 10/31/2018 Date Data Arrived at EDR: 11/06/2018 Date Made Active in Reports: 12/28/2018

Number of Days to Update: 52

Source: Department of Environmental Quality

Telephone: 804-698-4228 Last EDR Contact: 01/07/2019

Next Scheduled EDR Contact: 04/22/2019 Data Release Frequency: Quarterly

INST CONTROL: Voluntary Remediation Program Database

Sites included in the Voluntary Remediation Program database that have deed restrictions.

Date of Government Version: 10/31/2018 Date Data Arrived at EDR: 11/06/2018 Date Made Active in Reports: 12/28/2018

Number of Days to Update: 52

Source: Department of Environmental Quality

Telephone: 804-698-4228 Last EDR Contact: 01/07/2019

Next Scheduled EDR Contact: 04/22/2019 Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

VRP: Voluntary Remediation Program

The Voluntary Cleanup Program encourages owners of elected contaminated sites to take the initiative and conduct voluntary cleanups that meet state environmental standards.

Date of Government Version: 10/31/2018 Date Data Arrived at EDR: 11/06/2018 Date Made Active in Reports: 12/28/2018

Number of Days to Update: 52

Source: Department of Environmental Quality

Telephone: 804-698-4228 Last EDR Contact: 01/07/2019

Next Scheduled EDR Contact: 04/22/2019 Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015 Date Data Arrived at EDR: 09/29/2015 Date Made Active in Reports: 02/18/2016

Number of Days to Update: 142

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 12/19/2018

Next Scheduled EDR Contact: 04/08/2019 Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site Specific Assessments

To qualify for Brownfields Assessment, the site must meet the Federal definition of a Brownfields and should have contaminant issues that need to be addressed and a redevelopment plan supported by the local government and community. Virginia's Department of Environmental Quality performs brownfields assessments under a cooperative agreement with the U.S. Environmental Protection Agency at no cost to communities, property owners or, prospective purchasers. The assessment is an evaluation of environmental impacts caused by previous site uses similar to a Phase II Environmental Assessment.

Date of Government Version: 10/18/2018 Date Data Arrived at EDR: 10/24/2018 Date Made Active in Reports: 11/08/2018

Number of Days to Update: 15

Source: Department of Environmental Quality

Telephone: 804-698-4207 Last EDR Contact: 01/24/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/17/2018 Date Data Arrived at EDR: 12/18/2018 Date Made Active in Reports: 01/11/2019

Number of Days to Update: 24

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 12/18/2018

Next Scheduled EDR Contact: 04/01/2019 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 01/29/2019

Next Scheduled EDR Contact: 05/13/2019 Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 01/17/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014 Date Data Arrived at EDR: 08/06/2014

Date Made Active in Reports: 01/29/2015 Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service

Telephone: 301-443-1452 Last EDR Contact: 02/01/2019

Next Scheduled EDR Contact: 05/13/2019 Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/21/2018 Date Data Arrived at EDR: 09/21/2018 Date Made Active in Reports: 11/09/2018

Number of Days to Update: 49

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 11/26/2018

Next Scheduled EDR Contact: 03/11/2019 Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/21/2018 Date Data Arrived at EDR: 09/21/2018 Date Made Active in Reports: 11/09/2018

Number of Days to Update: 49

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 11/26/2018

Next Scheduled EDR Contact: 03/11/2019 Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 12/12/2018 Date Data Arrived at EDR: 12/28/2018 Date Made Active in Reports: 01/11/2019

Number of Days to Update: 14

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 02/15/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018 Date Data Arrived at EDR: 03/27/2018 Date Made Active in Reports: 06/08/2018

Number of Days to Update: 73

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 02/08/2019

Next Scheduled EDR Contact: 04/08/2019 Data Release Frequency: Quarterly

SPILLS PD: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 10/20/2009 Date Data Arrived at EDR: 10/29/2009 Date Made Active in Reports: 12/03/2009

Number of Days to Update: 35

Source: Department of Environmental Quality, Piedmont Region

Telephone: 804-527-5020 Last EDR Contact: 02/06/2012

Next Scheduled EDR Contact: 05/21/2012 Data Release Frequency: Quarterly

SPILLS BRL: Prep/Spills Database Listing

A listing of spills locations located in the Blue Ridge Regional area, Lynchburg.

Date of Government Version: 09/18/2009 Date Data Arrived at EDR: 09/18/2009 Date Made Active in Reports: 10/06/2009

Number of Days to Update: 18

Source: DEQ, Blue Ridge Regional Office

Telephone: 434-582-6218 Last EDR Contact: 11/28/2011

Next Scheduled EDR Contact: 03/12/2012 Data Release Frequency: Varies

SPILLS: Prep/Spills Database Listing

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment. PREP staff often work to assist local emergency responders, other state agencies, federal agencies, and responsible parties, as may be needed, to manage pollution incidents. Oil spills, fish kills, and hazardous materials spills are examples of incidents that may involve the DEQ's PREP Program.

Date of Government Version: 11/01/2018 Date Data Arrived at EDR: 11/29/2018 Date Made Active in Reports: 01/30/2019

Number of Days to Update: 62

Source: Department of Environmental Quality

Telephone: 804-698-4287 Last EDR Contact: 11/29/2018

Next Scheduled EDR Contact: 03/11/2019 Data Release Frequency: Quarterly

SPILLS WC: Prep Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 09/21/2009 Date Data Arrived at EDR: 09/29/2009 Date Made Active in Reports: 10/30/2009

Number of Days to Update: 31

Source: Department of Environmental Quality, West Central Region

Telephone: 540-562-6700 Last EDR Contact: 09/06/2011

Next Scheduled EDR Contact: 12/19/2011 Data Release Frequency: No Update Planned

SPILLS VA: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 08/08/2012 Date Data Arrived at EDR: 08/09/2012 Date Made Active in Reports: 10/05/2012

Number of Days to Update: 57

Source: Department of Environmental Quality, Valley Regional Office

Telephone: 540-574-7800 Last EDR Contact: 05/06/2013

Next Scheduled EDR Contact: 08/19/2013 Data Release Frequency: Quarterly

SPILLS TD: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 09/17/2009 Date Data Arrived at EDR: 09/23/2009 Date Made Active in Reports: 10/06/2009

Number of Days to Update: 13

Source: Department of Environmental Quality, Tidewater Region

Telephone: trofoia@deq.vir Last EDR Contact: 09/06/2011

Next Scheduled EDR Contact: 12/19/2011 Data Release Frequency: Quarterly

SPILLS SW: Reportable Spills

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to

air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 01/21/2010 Date Data Arrived at EDR: 01/22/2010 Date Made Active in Reports: 02/16/2010

Number of Days to Update: 25

Source: Department of Environmental Quality, Southwest Region

Telephone: 276-676-4839 Last EDR Contact: 07/13/2012

Next Scheduled EDR Contact: 10/29/2012
Data Release Frequency: No Update Planned

SPILLS NO: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to

air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 09/23/2009 Date Data Arrived at EDR: 09/29/2009 Date Made Active in Reports: 10/30/2009

Number of Days to Update: 31

Source: Department of Environmental Quality, Northern Region

Telephone: 703-583-3864 Last EDR Contact: 09/06/2011

Next Scheduled EDR Contact: 12/19/2011 Data Release Frequency: No Update Planned

SPILLS PC: Pollution Complaint Database

Pollution Complaints Database. The pollution reports contained in the PC database include the initial release reporting of Leaking Underground Storage Tanks and all other releases of petroleum to the environment as well as releases to state waters. The database is current through 12/1/93. Since that time, all spill and pollution reporting information has been collected and tracked through the DEQ regional offices.

Date of Government Version: 06/01/1996 Date Data Arrived at EDR: 10/22/1996 Date Made Active in Reports: 11/21/1996

Number of Days to Update: 30

Source: Department of Environmental Quality

Telephone: 804-698-4287 Last EDR Contact: 03/08/2010

Next Scheduled EDR Contact: 06/21/2010
Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 09/01/2012 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 02/15/2013

Number of Days to Update: 43

Source: FirstSearch Telephone: N/A

Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: 800-438-2474 Last EDR Contact: 12/03/2018

Next Scheduled EDR Contact: 04/08/2019 Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015 Date Data Arrived at EDR: 07/08/2015 Date Made Active in Reports: 10/13/2015

Number of Days to Update: 97

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 11/19/2018

Next Scheduled EDR Contact: 03/04/2019 Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Source: USGS

Telephone: 888-275-8747 Last EDR Contact: 01/11/2019

Next Scheduled EDR Contact: 04/22/2019 Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 01/11/2019

Next Scheduled EDR Contact: 04/22/2019

Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017 Date Data Arrived at EDR: 02/03/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 63

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 02/15/2019

Next Scheduled EDR Contact: 05/27/2019 Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 08/31/2018 Date Data Arrived at EDR: 09/25/2018 Date Made Active in Reports: 11/09/2018

Number of Days to Update: 45

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 02/04/2019

Next Scheduled EDR Contact: 04/08/2019 Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013 Date Data Arrived at EDR: 03/21/2014 Date Made Active in Reports: 06/17/2014

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 02/08/2019

Next Scheduled EDR Contact: 05/20/2019 Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017 Date Data Arrived at EDR: 05/08/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 73

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 02/08/2019

Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 06/21/2017 Date Made Active in Reports: 01/05/2018

Number of Days to Update: 198

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 12/21/2018

Next Scheduled EDR Contact: 04/01/2019 Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 01/10/2018 Date Made Active in Reports: 01/12/2018

Number of Days to Update: 2

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 11/16/2018

Next Scheduled EDR Contact: 03/04/2019 Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011

Number of Days to Update: 77

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 01/25/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/12/2018 Date Data Arrived at EDR: 12/28/2018 Date Made Active in Reports: 01/11/2019

Number of Days to Update: 14

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 02/15/2019

Next Scheduled EDR Contact: 03/18/2019 Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 10/26/2018 Date Data Arrived at EDR: 11/06/2018 Date Made Active in Reports: 01/11/2019

Number of Days to Update: 66

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 01/22/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008

Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 08/13/2018 Date Data Arrived at EDR: 10/04/2018 Date Made Active in Reports: 11/09/2018

Number of Days to Update: 36

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 02/15/2019

Next Scheduled EDR Contact: 05/20/2019 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/14/2018 Date Data Arrived at EDR: 10/11/2018 Date Made Active in Reports: 12/07/2018

Number of Days to Update: 57

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 01/11/2019

Next Scheduled EDR Contact: 04/22/2019 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016 Date Data Arrived at EDR: 11/23/2016 Date Made Active in Reports: 02/10/2017

Number of Days to Update: 79

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 01/07/2019

Next Scheduled EDR Contact: 04/22/2019 Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 12/04/2017 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 12/04/2017 Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Source: EPA

Date of Government Version: 08/30/2016 Date Data Arrived at EDR: 09/08/2016 Date Made Active in Reports: 10/21/2016

Number of Days to Update: 43

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 01/22/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 12/05/2018

Next Scheduled EDR Contact: 03/18/2019 Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 12/03/2018

Next Scheduled EDR Contact: 03/18/2019 Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017 Date Data Arrived at EDR: 11/30/2017 Date Made Active in Reports: 12/15/2017

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 01/25/2019

Next Scheduled EDR Contact: 05/06/2019 Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2018 Date Data Arrived at EDR: 10/03/2018 Date Made Active in Reports: 11/09/2018

Number of Days to Update: 37

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 01/03/2019

Next Scheduled EDR Contact: 04/15/2019 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/01/2018 Date Data Arrived at EDR: 10/30/2018 Date Made Active in Reports: 01/18/2019

Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 01/29/2019

Next Scheduled EDR Contact: 05/11/2019 Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2018 Date Data Arrived at EDR: 10/12/2018 Date Made Active in Reports: 12/07/2018

Number of Days to Update: 56

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 01/07/2019

Next Scheduled EDR Contact: 04/22/2019 Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015 Date Data Arrived at EDR: 02/22/2017 Date Made Active in Reports: 09/28/2017

Number of Days to Update: 218

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 02/13/2019

Next Scheduled EDR Contact: 06/03/2019 Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater

than 640 acres.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 07/14/2015 Date Made Active in Reports: 01/10/2017

Number of Days to Update: 546

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 01/07/2019

Next Scheduled EDR Contact: 04/22/2019 Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017 Date Data Arrived at EDR: 09/11/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 3

Source: Department of Energy Telephone: 202-586-3559 Last EDR Contact: 01/31/2019

Next Scheduled EDR Contact: 05/20/2019 Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017 Date Data Arrived at EDR: 10/11/2017 Date Made Active in Reports: 11/03/2017

Number of Days to Update: 23

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 12/14/2018

Next Scheduled EDR Contact: 03/04/2019 Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/12/2018 Date Data Arrived at EDR: 12/28/2018 Date Made Active in Reports: 01/11/2019

Number of Days to Update: 14

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 02/15/2019

Next Scheduled EDR Contact: 04/15/2019

Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001 Date Data Arrived at EDR: 10/27/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 36

Source: American Journal of Public Health

Telephone: 703-305-6451 Last EDR Contact: 12/02/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Telephone: 202-564-2496

Last EDR Contact: 09/26/2017

Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017

Number of Days to Update: 100

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017

Number of Days to Update: 100

Source: EPA

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 09/26/2017

Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually

Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2018 Date Data Arrived at EDR: 08/29/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 37

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 11/30/2018

Next Scheduled EDR Contact: 03/11/2019 Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005 Date Data Arrived at EDR: 02/29/2008 Date Made Active in Reports: 04/18/2008

Number of Days to Update: 49

Source: USGS Telephone: 703-648-7709

Last EDR Contact: 11/30/2018
Next Scheduled EDR Contact: 03/11/2019

Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011 Date Data Arrived at EDR: 06/08/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 97

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 11/30/2018

Next Scheduled EDR Contact: 03/11/2019 Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/11/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 3

Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 12/19/2018

Next Scheduled EDR Contact: 03/25/2019 Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/15/2018 Date Data Arrived at EDR: 12/05/2018 Date Made Active in Reports: 01/11/2019

Number of Days to Update: 37

Source: EPA Telephone: (215) 814-5000 Last EDR Contact: 01/31/2019

Next Scheduled EDR Contact: 03/18/2019 Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018 Date Data Arrived at EDR: 09/05/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 9

Source: Environmental Protection Agency

Telephone: 202-564-2280 Last EDR Contact: 01/07/2019

Next Scheduled EDR Contact: 03/18/2019 Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018 Date Data Arrived at EDR: 07/26/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 71

Source: Environmental Protection Agency

Telephone: 202-564-0527 Last EDR Contact: 11/30/2018

Next Scheduled EDR Contact: 03/11/2019 Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017 Date Data Arrived at EDR: 06/19/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 87

Source: Department of Defense Telephone: 703-704-1564 Last EDR Contact: 01/14/2019

Next Scheduled EDR Contact: 04/29/2019 Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2018 Date Data Arrived at EDR: 08/22/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 44

Source: EPA

Telephone: 800-385-6164 Last EDR Contact: 11/19/2018

Next Scheduled EDR Contact: 03/04/2019 Data Release Frequency: Quarterly

AIRS: Permitted Airs Facility List
A listing of permitted Airs facilities.

Date of Government Version: 09/21/2018 Date Data Arrived at EDR: 11/01/2018 Date Made Active in Reports: 12/26/2018

Number of Days to Update: 55

Source: Department of Environmental Quality

Telephone: 804-698-4000 Last EDR Contact: 01/14/2019

Next Scheduled EDR Contact: 04/01/2019 Data Release Frequency: Annually

CEDS: Comprehensive Environmental Data System

Virginia Water Protection Permits, Virginia Pollution Discharge System (point discharge) permits and Virginia Pollution Abatement (no point discharge) permits.

Date of Government Version: 12/18/2018 Date Data Arrived at EDR: 12/19/2018 Date Made Active in Reports: 01/29/2019

Number of Days to Update: 41

Source: Department of Environmental Quality

Telephone: 804-698-4077 Last EDR Contact: 12/14/2018

Next Scheduled EDR Contact: 03/18/2019 Data Release Frequency: Quarterly

COAL ASH: Coal Ash Disposal Sites

A listing of facilities with coal ash impoundments.

Date of Government Version: 12/10/2018 Date Data Arrived at EDR: 12/12/2018 Date Made Active in Reports: 01/30/2019

Number of Days to Update: 49

Source: Department of Environmental Protection

Telephone: 804-698-4285 Last EDR Contact: 12/03/2018

Next Scheduled EDR Contact: 03/18/2019

Data Release Frequency: Varies

DRYCLEANERS: Drycleaner List
A listing of registered drycleaners.

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 11/01/2018 Date Made Active in Reports: 12/26/2018

Number of Days to Update: 55

Source: Department of Environmental Quality

Telephone: 804-698-4407 Last EDR Contact: 01/07/2019

Next Scheduled EDR Contact: 04/22/2019

Data Release Frequency: Varies

ENFORCEMENT: Enforcement Actions Data A listing of enforcement actions.

Date of Government Version: 06/01/2018 Date Data Arrived at EDR: 06/06/2018 Date Made Active in Reports: 07/05/2018

Number of Days to Update: 29

Source: Department of Environmental Quality

Telephone: 804-698-4031 Last EDR Contact: 01/02/2019

Next Scheduled EDR Contact: 04/15/2019 Data Release Frequency: Quarterly

Financial Assurance 1: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/03/2018 Date Data Arrived at EDR: 11/06/2018 Date Made Active in Reports: 12/26/2018

Number of Days to Update: 50

Source: Department of Environmental Quality

Telephone: 804-698-4205 Last EDR Contact: 01/28/2019

Next Scheduled EDR Contact: 05/11/2019 Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information listing

Solid waste financial assurance information.

Date of Government Version: 11/01/2018 Date Data Arrived at EDR: 11/06/2018 Date Made Active in Reports: 12/27/2018

Number of Days to Update: 51

Source: Department of Environmental Quality

Telephone: 804-698-4123 Last EDR Contact: 01/28/2019

Next Scheduled EDR Contact: 05/11/2019 Data Release Frequency: Varies

TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 01/20/2017 Date Made Active in Reports: 02/14/2017

Number of Days to Update: 25

Source: Department of Environmental Quality

Telephone: 804-698-4159 Last EDR Contact: 12/14/2018

Next Scheduled EDR Contact: 04/01/2019 Data Release Frequency: Annually

UIC: Underground Injection Control Wells

A listing of underground injection controls wells.

Date of Government Version: 10/30/2018 Date Data Arrived at EDR: 10/31/2018 Date Made Active in Reports: 12/27/2018

Number of Days to Update: 57

Source: Department of Mines, Minerals and Energy

Telephone: 276-415-9700 Last EDR Contact: 01/30/2019

Next Scheduled EDR Contact: 05/11/2019 Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Virgina.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 01/20/2014 Number of Days to Update: 203

Source: Department of Environmental Quality Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Virgina and at the Regional VA Levels.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 01/15/2014 Number of Days to Update: 198

Source: Department of Environmental Quality Telephone: N/A Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/12/2018 Date Data Arrived at EDR: 11/14/2018 Date Made Active in Reports: 12/04/2018

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 02/12/2019

Next Scheduled EDR Contact: 05/27/2019 Data Release Frequency: No Update Planned

Source: Department of Environmental Protection

NJ MANIFEST: Manifest Information Hazardous waste manifest information.

Number of Days to Update: 20

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 07/13/2018 Date Made Active in Reports: 08/01/2018

Telephone: N/A Last EDR Contact: 01/07/2019

Number of Days to Update: 19

Next Scheduled EDR Contact: 04/22/2019 Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD

acility.

Date of Government Version: 01/01/2019 Date Data Arrived at EDR: 01/30/2019 Date Made Active in Reports: 02/14/2019

Number of Days to Update: 15

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 01/30/2019

Next Scheduled EDR Contact: 05/11/2019 Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 10/23/2018 Date Made Active in Reports: 11/27/2018

Number of Days to Update: 35

Source: Department of Environmental Protection

Telephone: 717-783-8990 Last EDR Contact: 01/11/2019

Next Scheduled EDR Contact: 04/29/2019 Data Release Frequency: Annually

RI MANIFEST: Manifest information Hazardous waste manifest information

> Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 02/23/2018 Date Made Active in Reports: 04/09/2018

Number of Days to Update: 45

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 02/19/2019

Next Scheduled EDR Contact: 06/03/2019 Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 06/15/2018 Date Made Active in Reports: 07/09/2018

Number of Days to Update: 24

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 12/07/2018

Next Scheduled EDR Contact: 03/25/2019 Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are

comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities Source: Department of Social Services

Telephone: 804-692-1900

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CHESTERFIELD AIRPORT 7431 AIRFIELD DRIVE RICHMOND, VA 23237

TARGET PROPERTY COORDINATES

Latitude (North): 37.406673 - 37° 24' 24.02" Longitude (West): 77.5192 - 77° 31' 9.12"

Universal Tranverse Mercator: Zone 18 UTM X (Meters): 277026.4 UTM Y (Meters): 4142762.0

Elevation: 199 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 5951049 CHESTERFIELD, VA

Version Date: 2013

Northeast Map: 5951067 DREWRYS BLUFF, VA

Version Date: 2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

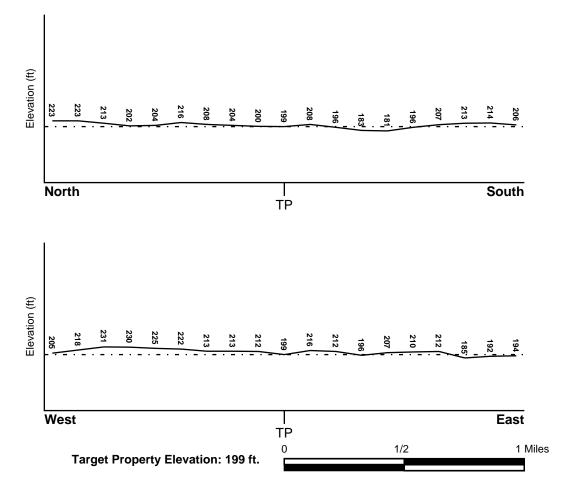
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property FEMA Source Type

51041C0142D FEMA FIRM Flood data

Additional Panels in search area: FEMA Source Type

51041C0145D FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property Data Coverage

CHESTERFIELD YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles
Location Relative to TP: 1 - 2 Miles ENE

Site Name: Virginina Air National Guard

Site EPA ID Number: VA0572890002

Surficial Aquifer Flow Dir.: TOWARD LOCAL STREAMS WITHIN THE WHITE OAK CREEK WATERSHED.

Inferred Depth to Water: 1 foot to 15 feet.

Hydraulic Connection: The surficial Yorktown aguifer is unconfined and underlain by three

confined (artesian) aquifers.

Sole Source Aquifer: No information about a sole source aquifer is available
Data Quality: Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

 MAP ID
 FROM TP
 GROUNDWATER FLOW

 Not Reported
 GROUNDWATER FLOW

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

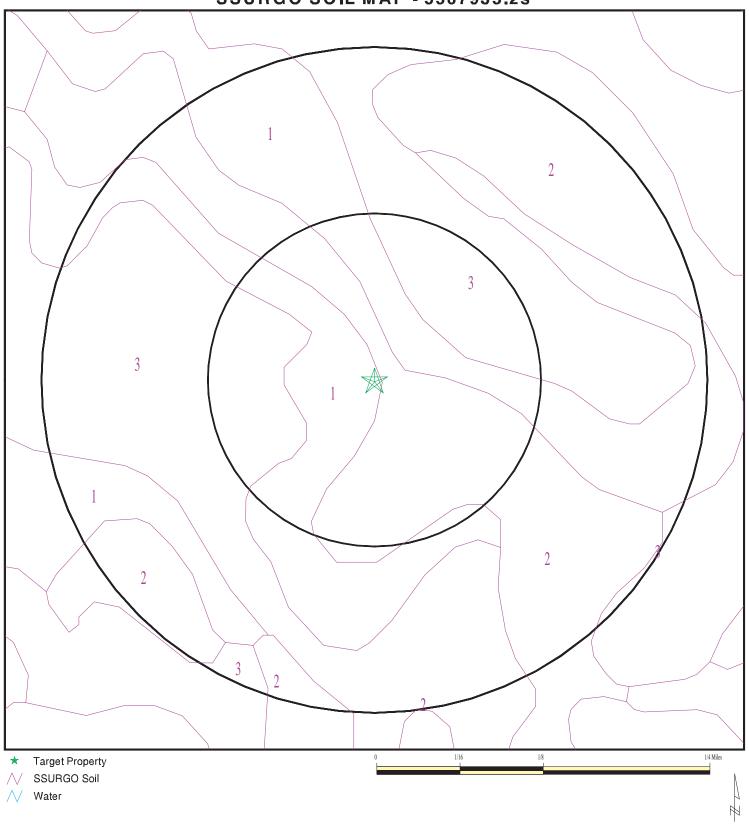
Era: Cenozoic Category: Stratified Sequence

System: Tertiary Series: Miocene

Code: Tm (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5567935.2s



SITE NAME: Chesterfield Airport ADDRESS: 7431 Airfield Drive Richmond VA 23237 LAT/LONG:

37.406673 / 77.5192

CLIENT: AECOM
CONTACT: Brittany Kirchmann
INQUIRY#: 5567935.2s
DATE: February 20, 2019 5:12 pm

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Colfax variant

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

			Soil Layer	r Information			
	Воц	ındary		Classi	fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	9 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6 Min: 3.6
2	9 inches	16 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6 Min: 3.6
3	16 inches	20 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6 Min: 3.6
4	20 inches	51 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6 Min: 3.6

	Soil Layer Information									
	Bou	ndary		Classification		Saturated hydraulic				
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil conductivity					
5	51 inches	72 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6 Min: 3.6			

Soil Map ID: 2

Soil Component Name: Bourne

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

	Soil Layer Information									
	Вои	ındary		Classification		Saturated hydraulic				
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)			
1	0 inches	11 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 1.4	Max: 6 Min: 3.6			
2	11 inches	22 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 1.4	Max: 6 Min: 3.6			

	Soil Layer Information							
	Boundary			Classi	fication	Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Oon Reaction	
3	22 inches	44 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 1.4	Max: 6 Min: 3.6	
4	44 inches	72 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 1.4	Max: 6 Min: 3.6	

Soil Map ID: 3

Soil Component Name: Aquults

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

	Soil Layer Information										
Boundary				Classification		Saturated hydraulic					
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec					
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 0.42	Max: 6.5 Min: 3.6				

	Soil Layer Information								
	Вои	ındary		Classi	fication	Saturated hydraulic			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)		
2	7 inches	11 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 0.42	Max: 6.5 Min: 3.6		
3	11 inches	50 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 0.42	Max: 6.5 Min: 3.6		
4	50 inches	72 inches	gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 0.42	Max: 6.5 Min: 3.6		

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

MAP ID WELL ID FROM TP

No Wells Found

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID WELL ID LOCATION FROM TP

No PWS System Found

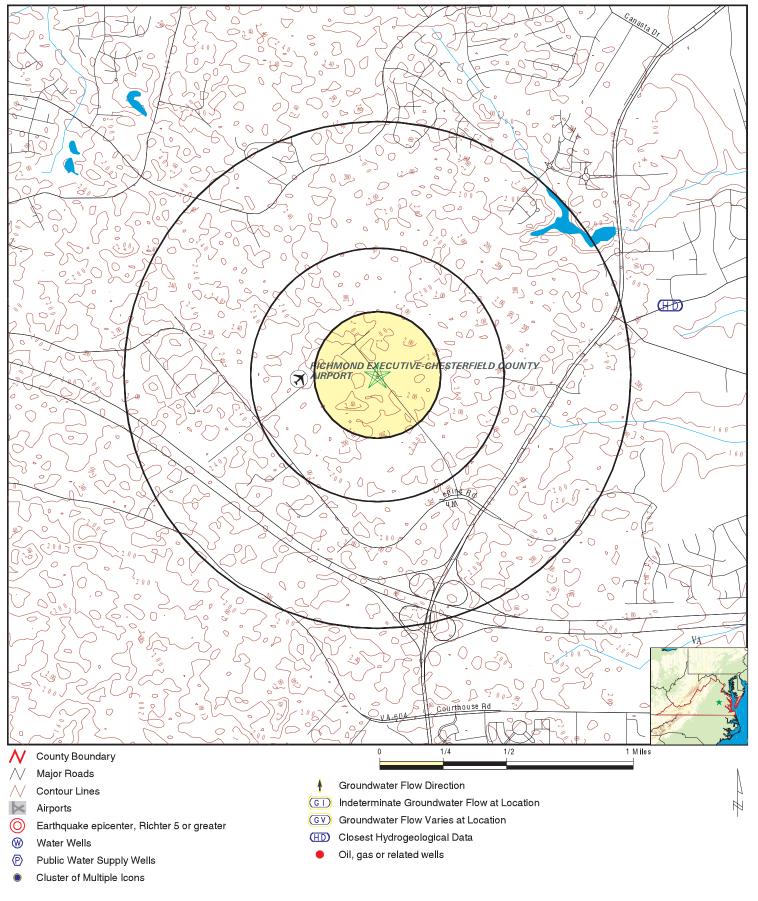
Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

LOCATION MAP ID WELL ID FROM TP

No Wells Found

PHYSICAL SETTING SOURCE MAP - 5567935.2s



SITE NAME: Chesterfield Airport
ADDRESS: 7431 Airfield Drive
Richmond VA 23237
LAT/LONG: 37.406673 / 77.5192

CLIENT: AECOM
CONTACT: Brittany Kirchmann
INQUIRY #: 5567935.2s
DATE: February 20, 2019 5:12 pm

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

EPA Region 3 Statistical Summary Readings for Zip Code: 23237

Number of sites tested: 37.

Maximum Radon Level: 4.5 pCi/L.

Minimum Radon Level: 0.0 pCi/L.

pCi/L pCi/L pCi/L pCi/L pCi/L pCi/L 4-10 10-20 20-50 50-100 >100 <4 36 (97.30%) 1 (2.70%) 0 (0.00%) 0 (0.00%) 0 (0.00%) 0 (0.00%)

Federal EPA Radon Zone for CHESTERFIELD County: 1

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Virginia Public Water Supplies

Source: Department of Health, Office of Water Programs

Telephone: 804-786-1756

OTHER STATE DATABASE INFORMATION

Virginia Oil and Gas Wells

Source: Department of Mines, Minerals and Energy

Telephone: 804-692-3200

A listing of oil and gas well locations.

RADON

Area Radon Information Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at

private sources such as universities and research institutions.

EPA Radon Zones Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

EPA Region 3 Statistical Summary Readings

Source: Region 3 EPA Telephone: 215-814-2082

Radon readings for Delaware, D.C., Maryland, Pennsylvania, Virginia and West Virginia.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared

in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Chesterfield Airport

7431 Airfield Drive Richmond, VA 23237

Inquiry Number: 5567935.2s

February 20, 2019

EDR Summary Radius Map Report



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

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Thank you for your business.Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

7431 AIRFIELD DRIVE RICHMOND, VA 23237

COORDINATES

Latitude (North): 37.4066730 - 37° 24' 24.02" Longitude (West): 77.5192000 - 77° 31' 9.12"

Universal Tranverse Mercator: Zone 18 UTM X (Meters): 277026.4 UTM Y (Meters): 4142762.0

Elevation: 199 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: TF

Source: U.S. Geological Survey

Target Property: NE

Source: U.S. Geological Survey

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140814 Source: USDA

MAPPED SITES SUMMARY

Target Property Address: 7431 AIRFIELD DRIVE RICHMOND, VA 23237

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	CHESTERFIELD COUNTY	7511 AIRFIELD DR	VA LTANKS, VA UST, VA AST, VA NPDES, VA Financial	Higher	1 ft.
2	AIRPORT FIRE STATION	7300 AIRFIELD DR	VA UST	Lower	1 ft.
A3	CHESTERFIELD COUNTY	7511 AIRFIELD DRIVE	RCRA-SQG	Higher	1 ft.
B4	MARCO MACHINE AND DE	7740 WHITEPINE RD	VA UST	Higher	835, 0.158, WSW
C5	INTEGRATED GLOBAL SE	7600 WHITE PINE RD	RCRA-LQG	Higher	835, 0.158, SSW
D6	QSI LLC	7820 WHITEPINE RD	RCRA-SQG, FINDS, ECHO	Higher	836, 0.158, WSW
7	AMSA NO 90	7710 WHITEPINE RD	RCRA NonGen / NLR	Higher	837, 0.159, SW
E8	AMERICAN FILTRONA CO	7531 WHITEPINE RD	VA UST	Higher	901, 0.171, SSW
C9	CUSTOM METAL FABRICA	7601 WHITEPINE RD	RCRA-CESQG, FINDS, ECHO	Higher	902, 0.171, SSW
F10	ROGERS CORPORATION	8020 WHITEPINE ROAD	RCRA NonGen / NLR, FINDS, ECHO	Higher	910, 0.172, West
F11	ROGERS CORP	8020 WHITEPINE ROAD	PA MANIFEST	Higher	910, 0.172, West
B12	REYNOLDS METALS COMP	7900 REYCAN RD	VA UST	Higher	918, 0.174, WSW
E13	CARDINAL ELECTRIC	7521 WHITEPINE RD	VA UST	Higher	964, 0.183, SSW
E14	OLD DOMINION TRUCK L	7511 WHITEPINE RD	VA UST	Higher	965, 0.183, SSW
B15	ARISTA LABORATORIES	7741 WHITEPINE RD.	RCRA NonGen / NLR, FINDS, ECHO	Higher	965, 0.183, WSW
D16	EVONIK CORPORATION	7801 WHITE PINE RD.	RCRA-SQG, FINDS, ECHO	Higher	969, 0.184, WSW
G17	ENVIRONMENTAL HAZARD	7469 WHITEPINE ROAD	RCRA-CESQG	Higher	1000, 0.189, South
G18	GE INSPECTION SVCS	7445 WHITEPINE RD	RCRA-SQG, FINDS, ECHO	Higher	1008, 0.191, South
H19	MARUCHAN VIRGINIA IN	8101 WHITEPINE RD	RCRA-CESQG, US AIRS	Higher	1164, 0.220, West
H20	MARUCHAN VIRGINIA IN	8101 WHITE PINE RD	PA MANIFEST	Higher	1164, 0.220, West
21	FRITO LAY SALES DIST	8010 WHITEBARK TER	VA LUST, VA LTANKS, VA UST	Higher	1467, 0.278, SW
22	WAREHOUSE DISTRIBUTI	8030 WHITEBARK TERRA	VA LTANKS, VA UST, VA Financial Assurance	Higher	1481, 0.280, SW
23	KROMA USA INCORPORAT	8031 WHITEBARK TER	VA LUST, VA LTANKS, VA UST	Higher	1892, 0.358, SW
24	FLOYD RESIDENCE	7800 COGBILL RD	VA LUST, VA LTANKS	Higher	2141, 0.405, NNW

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-LQG: A review of the RCRA-LQG list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
INTEGRATED GLOBAL SE	7600 WHITE PINE RD	SSW 1/8 - 1/4 (0.158 mi.)	C5	9
EPA ID:: VAD185479953				

RCRA-SQG: A review of the RCRA-SQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 4 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHESTERFIELD COUNTY EPA ID:: VAR000512889	7511 AIRFIELD DRIVE	0 - 1/8 (0.000 mi.)	А3	8
QSI LLC EPA ID:: VAR000004903	7820 WHITEPINE RD	WSW 1/8 - 1/4 (0.158 mi.)	D6	9
EVONIK CORPORATION EPA ID:: VAD980719553	7801 WHITE PINE RD.	WSW 1/8 - 1/4 (0.184 mi.)	D16	12
GE INSPECTION SVCS EPA ID:: VAD988202610	7445 WHITEPINE RD	S 1/8 - 1/4 (0.191 mi.)	G18	12

RCRA-CESQG: A review of the RCRA-CESQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 3 RCRA-CESQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CUSTOM METAL FABRICA EPA ID:: VAD049967342	7601 WHITEPINE RD	SSW 1/8 - 1/4 (0.171 mi.)	C9	10
ENVIRONMENTAL HAZARD EPA ID:: VAR000510693	7469 WHITEPINE ROAD	S 1/8 - 1/4 (0.189 mi.)	G17	12
MARUCHAN VIRGINIA IN EPA ID:: VAD988221107	8101 WHITEPINE RD	W 1/8 - 1/4 (0.220 mi.)	H19	12

State and tribal leaking storage tank lists

VA LUST: A review of the VA LUST list, as provided by EDR, has revealed that there are 3 VA LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FRITO LAY SALES DIST Database: LUST REG PD, Date of G Facility Status: Closed Pollution Complaint #: 19939404 Pollution Complaint #: 19900100	8010 WHITEBARK TER overnment Version: 12/02/2014	SW 1/4 - 1/2 (0.278 mi.)	21	13
KROMA USA INCORPORAT Database: LUST REG PD, Date of G Facility Status: Closed Pollution Complaint #: 20018201	8031 WHITEBARK TER overnment Version: 12/02/2014	SW 1/4 - 1/2 (0.358 mi.)	23	14
FLOYD RESIDENCE Database: LUST REG PD, Date of G Facility Status: Closed Pollution Complaint #: 19994097	7800 COGBILL RD overnment Version: 12/02/2014	NNW 1/4 - 1/2 (0.405 mi.)	24	14

VA LTANKS: A review of the VA LTANKS list, as provided by EDR, and dated 10/02/2018 has revealed that there are 5 VA LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Address Direction / Distance			
CHESTERFIELD COUNTY Facility Status: Closed CEDS Facility Id: 200000179857 Pollution Complaint #: 20184099	7511 AIRFIELD DR	0 - 1/8 (0.000 mi.)	A1	8	
FRITO LAY SALES DIST Facility Status: Closed CEDS Facility Id: 200000171643 Pollution Complaint #: 19900100	8010 WHITEBARK TER	SW 1/4 - 1/2 (0.278 mi.)	21	13	
WAREHOUSE DISTRIBUTI Facility Status: Closed	8030 WHITEBARK TERRA	SW 1/4 - 1/2 (0.280 mi.)	22	13	

CEDS Facility Id: 200000870140 Pollution Complaint #: 20164430				
KROMA USA INCORPORAT Facility Status: Closed CEDS Facility Id: 200000163377 Pollution Complaint #: 20018201	8031 WHITEBARK TER	SW 1/4 - 1/2 (0.358 mi.)	23	14
FLOYD RESIDENCE Facility Status: Closed CEDS Facility Id: 200000188938 Pollution Complaint #: 19994097	7800 COGBILL RD	NNW 1/4 - 1/2 (0.405 mi.)	24	14

State and tribal registered storage tank lists

VA UST: A review of the VA UST list, as provided by EDR, and dated 10/30/2018 has revealed that there are 7 VA UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page	
CHESTERFIELD COUNTY Tank Status: CURR IN USE Facility Id: 4000010 CEDS Facility ID: 200000179857	7511 AIRFIELD DR	0 - 1/8 (0.000 mi.)	A1	8	
MARCO MACHINE AND DE Tank Status: PERM OUT OF USE Facility Id: 4006025 CEDS Facility ID: 200000156568	7740 WHITEPINE RD	WSW 1/8 - 1/4 (0.158 mi.)	B4	9	
AMERICAN FILTRONA CO Tank Status: REM FROM GRD Facility Id: 4025914 CEDS Facility ID: 200000164880	7531 WHITEPINE RD	SSW 1/8 - 1/4 (0.171 mi.)	E8	10	
REYNOLDS METALS COMP Tank Status: CLS IN GRD Facility Id: 4018378 CEDS Facility ID: 200000165364	7900 REYCAN RD	WSW 1/8 - 1/4 (0.174 mi.)	B12	11	
CARDINAL ELECTRIC Tank Status: REM FROM GRD Facility Id: 4018769 CEDS Facility ID: 200000163917	7521 WHITEPINE RD	SSW 1/8 - 1/4 (0.183 mi.)	E13	11	
OLD DOMINION TRUCK L Tank Status: REM FROM GRD Facility Id: 4001430 CEDS Facility ID: 200000172497	7511 WHITEPINE RD	SSW 1/8 - 1/4 (0.183 mi.)	E14	11	
Lower Elevation	Address	Direction / Distance	Map ID	Page	
AIRPORT FIRE STATION Tank Status: REM FROM GRD Facility Id: 4023351 CEDS Facility ID: 200000173567	7300 AIRFIELD DR	0 - 1/8 (0.000 mi.)	2	8	

VA AST: A review of the VA AST list, as provided by EDR, and dated 10/30/2018 has revealed that there is 1 VA AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page	
CHESTERFIELD COUNTY Facility ID: 4000010 CEDS Facility ID: 200000179857	7511 AIRFIELD DR	0 - 1/8 (0.000 mi.)	A1	8	

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA NonGen / NLR: A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/01/2018 has revealed that there are 3 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMSA NO 90 EPA ID:: VAR000005710	7710 WHITEPINE RD	SW 1/8 - 1/4 (0.159 mi.)	7	9
ROGERS CORPORATION EPA ID:: VAR000501528	8020 WHITEPINE ROAD	W 1/8 - 1/4 (0.172 mi.)	F10	10
ARISTA LABORATORIES EPA ID:: VAR000501783	7741 WHITEPINE RD.	WSW 1/8 - 1/4 (0.183 mi.)	B15	11

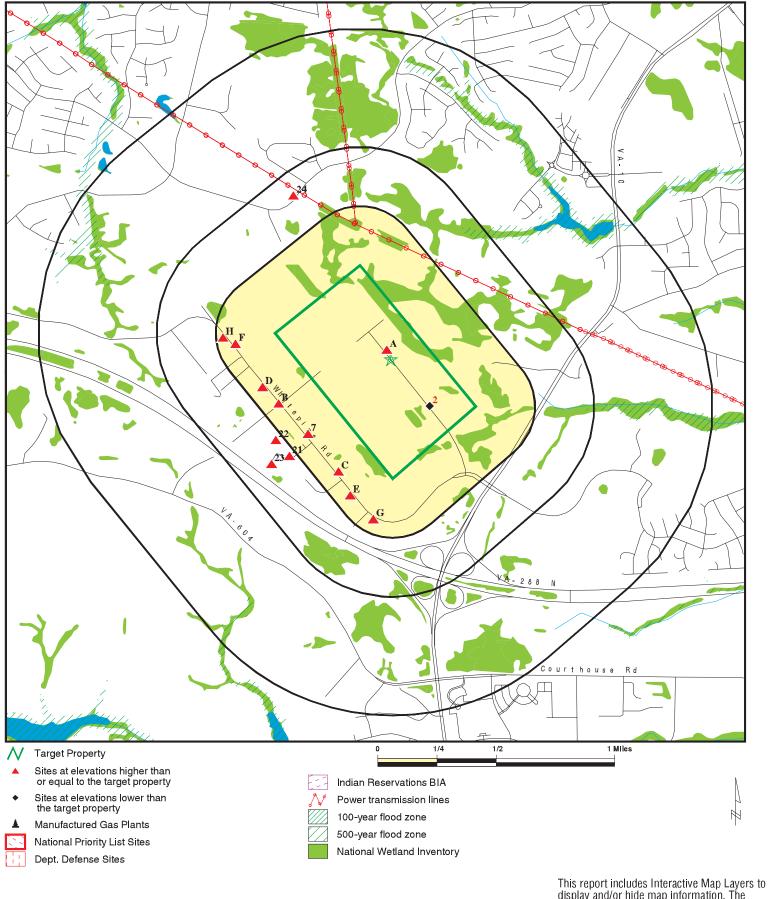
PA MANIFEST: A review of the PA MANIFEST list, as provided by EDR, and dated 12/31/2017 has revealed that there are 2 PA MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ROGERS CORP Generator EPA Id: VAR000501528	8020 WHITEPINE ROAD	W 1/8 - 1/4 (0.172 mi.)	F11	10
MARUCHAN VIRGINIA IN Generator EPA Id: VAD988221107	8101 WHITE PINE RD	W 1/8 - 1/4 (0.220 mi.)	H20	13

Count: 4 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CHESTERFIELD	S105695775	RIDGEDALE PARKWAY PROPERTY	5200 IRON BRIDGE RD	23832	VA LUST, VA LTANKS
CHESTERFIELD	S108231104	WATERMARK LAKE	IRON BRIDGE RD AND ROUTE 10	23832	VA LUST, VA LTANKS
RICHMOND	S105984426	VDOT EZ SHOP	ROUTE 10 AND COGBILL RD	23234	VA LUST, VA LTANKS
RICHMOND	U003684525	AIRPORT PUMP STATION	7130 AIRFIELD DR	23237	VA UST

OVERVIEW MAP - 5567935.2S

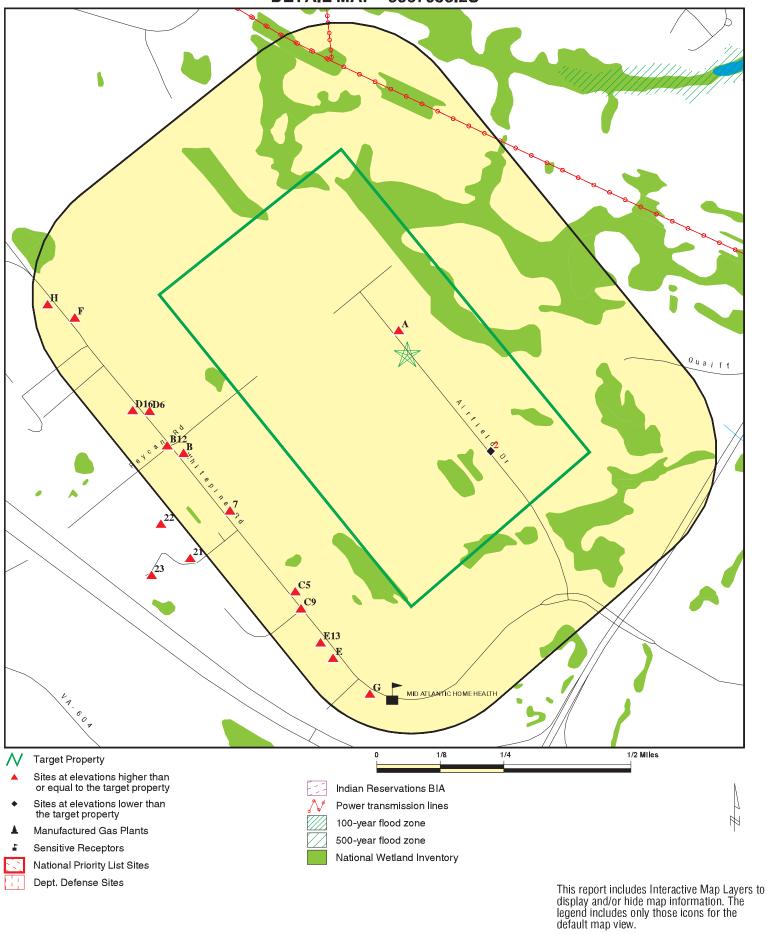


This report includes Interactive Map Layers t display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Chesterfield Airport
ADDRESS: 7431 Airfield Drive
Richmond VA 23237
LAT/LONG: 37.406673 / 77.5192

CLIENT: AECOM
CONTACT: Brittany Kirchmann
INQUIRY #: 5567935.2s
DATE: February 20, 2019 5:08 pm

DETAIL MAP - 5567935.2S



SITE NAME: Chesterfield Airport
ADDRESS: 7431 Airfield Drive
Richmond VA 23237
LAT/LONG: 37.406673 / 77.5192

CLIENT: AECOM
CONTACT: Brittany Kirchmann
INQUIRY #: 5567935.2s
DATE: February 20, 2019 5:11 pm

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted	
STANDARD ENVIRONMENT	STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list									
NPL Proposed NPL NPL LIENS	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0	
Federal Delisted NPL sit	e list								
Delisted NPL	1.000		0	0	0	0	NR	0	
Federal CERCLIS list									
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0	
Federal CERCLIS NFRA	P site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0	
Federal RCRA CORRAC	TS facilities li	st							
CORRACTS	1.000		0	0	0	0	NR	0	
Federal RCRA non-CORRACTS TSD facilities list									
RCRA-TSDF	0.500		0	0	0	NR	NR	0	
Federal RCRA generator	rs list								
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 1 0	1 3 3	NR NR NR	NR NR NR	NR NR NR	1 4 3	
Federal institutional con engineering controls reg									
LUCIS US ENG CONTROLS US INST CONTROL	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0	
Federal ERNS list									
ERNS	TP		NR	NR	NR	NR	NR	0	
State- and tribal - equiva	alent CERCLIS	3							
VA SHWS	N/A		N/A	N/A	N/A	N/A	N/A	N/A	
State and tribal landfill a solid waste disposal site									
VA SWF/LF	0.500		0	0	0	NR	NR	0	
State and tribal leaking	storage tank l	ists							
VA LUST INDIAN LUST VA LTANKS	0.500 0.500 0.500		0 0 1	0 0 0	3 0 4	NR NR NR	NR NR NR	3 0 5	
State and tribal registere	ed storage tan	ık lists							
FEMA UST	0.250		0	0	NR	NR	NR	0	

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
VA UST VA AST INDIAN UST	0.250 0.250 0.250		2 1 0	5 0 0	NR NR NR	NR NR NR	NR NR NR	7 1 0
State and tribal institution control / engineering con		;						
VA ENG CONTROLS VA INST CONTROL	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal voluntary	cleanup site	s						
VA VCP INDIAN VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfie	lds sites							
VA BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMEN	TAL RECORDS							
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / S Waste Disposal Sites	olid							
INDIAN ODI ODI DEBRIS REGION 9 IHS OPEN DUMPS	0.500 0.500 0.500 0.500		0 0 0 0	0 0 0 0	0 0 0 0	NR NR NR NR	NR NR NR NR	0 0 0 0
Local Lists of Hazardous Contaminated Sites	waste /							
US HIST CDL US CDL	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency R	elease Repor	ts						
HMIRS VA SPILLS VA SPILLS 90	TP TP TP		NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 0 0
Other Ascertainable Reco	ords							
RCRA NonGen / NLR FUDS DOD SCRD DRYCLEANERS US FIN ASSUR EPA WATCH LIST 2020 COR ACTION TSCA	0.250 1.000 1.000 0.500 TP TP 0.250		0 0 0 0 NR NR 0 NR	3 0 0 0 NR NR NR 0	NR 0 0 0 NR NR NR NR	NR 0 0 NR NR NR NR	NR NR NR NR NR NR NR	3 0 0 0 0 0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	Ö
RMP	TP		NR	NR	NR	NR	NR	Ö
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE COAL ASH EPA	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	0.500 TP		0 NR	0 NR	0 NR	NR NR	NR NR	0 0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	Ö
CONSENT	1.000		0	0	0	0	NR	Ö
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS UXO	TP 1.000		NR 0	NR 0	NR 0	NR 0	NR NR	0 0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	Ö
VA AIRS	TP		NR	NR	NR	NR	NR	0
VA NPDES	TP		NR	NR	NR	NR	NR	0
VA COAL ASH	0.500		0	0	0	NR	NR	0
VA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
VA ENF	TP		NR	NR	NR	NR	NR	0
VA Financial Assurance	TP		NR	NR	NR	NR	NR	0
PA MANIFEST	0.250		0	2	NR	NR	NR	2
VA TIER 2 VA UIC	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
VA OIC	IF		INIX	INIX	INIX	INIX	INIX	U
EDR HIGH RISK HISTORICA	L RECORDS							
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERN	IMENT ARCHIV	/ES						
Exclusive Recovered Go	vt. Archives							
	TP		ND	ND	ND	NID	ND	0
VA RGA LF	IP		NR	NR	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
VA RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals		0	5	17	7	0	0	29

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

Α1 **CHESTERFIELD COUNTY AIRPORT**

7511 AIRFIELD DR RICHMOND, VA 23237

VA UST VA AST VA NPDES VA Financial Assurance

VA LTANKS

U003682566

N/A

VA UST U003966811

RCRA-SQG

N/A

1010337254

VAR000512889

Relative: Higher

< 1/8

1 ft.

Click here for full text details

VA LTANKS

Facility Status: Closed

CEDS Facility Id: 200000179857 Pollution Complaint #: 20184099

VA UST

Tank Status: CURR IN USE Facility Id: 4000010 CEDS Facility ID: 200000179857

VA AST

Facility ID: 4000010

CEDS Facility ID: 200000179857

VA NPDES

Facility ID: 18-0734

VA Financial Assurance

Facility ID: 4000010 ROF Own Id: 47790

2 **AIRPORT FIRE STATION #15**

7300 AIRFIELD DR < 1/8 RICHMOND, VA 23237

1 ft.

Click here for full text details

Relative: **VA UST** Lower

Tank Status: REM FROM GRD

Facility Id: 4023351

CEDS Facility ID: 200000173567

CHESTERFIELD COUNTY AIRPORT А3

> **7511 AIRFIELD DRIVE** RICHMOND, VA 23237

< 1/8 1 ft.

Click here for full text details

Relative: Higher

RCRA-SQG

EPA Id: VAR000512889

Map ID MAP FINDINGS

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

B4 MARCO MACHINE AND DESIGN INCORPORATED VA UST U003683881
WSW 7740 WHITEPINE RD N/A

WSW 7740 WHITEPINE RD 1/8-1/4 RICHMOND, VA 23237

0.158 mi. 835 ft.

Click here for full text details

Relative: Higher

VA UST

Tank Status: PERM OUT OF USE

Facility Id: 4006025

CEDS Facility ID: 200000156568

C5 INTEGRATED GLOBAL SERVICES INC. RCRA-LQG 1004789550
SSW 7600 WHITE PINE RD VAD185479953

SSW 7600 WHITE PINE RD 1/8-1/4 RICHMOND, VA 23237

0.158 mi. 835 ft.

Click here for full text details

Relative: Higher

RCRA-LQG

EPA Id: VAD185479953

D6 QSI LLC RCRA-SQG 1004791144
WSW 7820 WHITEPINE RD FINDS VAR000004903

1/8-1/4 RICHMOND, VA 23237 0.158 mi.

0.158 m 836 ft.

Relative: Click here for full text details

Higher

RCRA-SQG

EPA Id: VAR000004903

FINDS

Registry ID:: 110005259111

ECHO

Registry ID: 110005259111

7 AMSA NO 90 SW 7710 WHITEPINE RD 1/8-1/4 RICHMOND, VA 23832 0.159 mi.

837 ft.

Click here for full text details

Relative: Higher

RCRA NonGen / NLR

EPA Id: VAR000005710

1007116720

VAR000005710

ECHO

RCRA NonGen / NLR

Map ID MAP FINDINGS

Direction Distance

Distance EDR ID Number
Elevation Site EDR ID Number
Database(s) EPA ID Number

E8 AMERICAN FILTRONA CORP VA UST U003688234 SSW 7531 WHITEPINE RD N/A

1/8-1/4 CHESTERFIELD, VA 23832 0.171 mi. 901 ft.

Click here for full text details

Relative: Higher

VA UST
Tank Status: REM FROM GRD

Facility Id: 4025914

CEDS Facility ID: 200000164880

C9 CUSTOM METAL FABRICATORS INC RCRA-CESQG 1000885091

SSW 7601 WHITEPINE RD 1/8-1/4 CHESTERFIELD, VA 23832 0.171 mi.

902 ft. Relative:

Click here for full text details

Higher

RCRA-CESQG

EPA Id: VAD049967342

FINDS

Registry ID:: 110005223025

ECHO

Registry ID: 110005223025

F10 ROGERS CORPORATION RCRA NonGen / NLR 1004791841
West 8020 WHITEPINE ROAD FINDS VAR000501528

west 1/8-1/4 0.172 mi. 910 ft.

Relative:

Click here for full text details

RICHMOND, VA 23237

Higher RCRA NonGen / NLR EPA ld: VAR000501528

FINDS

Registry ID:: 110066980538

ECHO

Registry ID: 110066980538

F11 ROGERS CORP PA MANIFEST S111773825
West 8020 WHITEPINE ROAD N/A

1/8-1/4 0.172 mi. 910 ft.

Click here for full text details

RICHMOND, VA 23237

Relative: Higher

PA MANIFEST

Generator EPA Id: VAR000501528

TC5567935.2s Page 10

FINDS

ECHO

ECHO

VAD049967342

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Database(s) Elevation Site **EPA ID Number**

B12 **REYNOLDS METALS COMPANY** VA UST U003686658 N/A

wsw 7900 REYCAN RD 1/8-1/4 RICHMOND, VA 23237 0.174 mi.

918 ft.

Click here for full text details

Relative: Higher

VA UST

Tank Status: CLS IN GRD Facility Id: 4018378

CEDS Facility ID: 200000165364

VA UST U003686802 E13 **CARDINAL ELECTRIC** N/A

SSW **7521 WHITEPINE RD** 1/8-1/4 RICHMOND, VA 23237

0.183 mi. 964 ft.

Click here for full text details

Relative: Higher

VA UST

Tank Status: REM FROM GRD

Facility Id: 4018769

CEDS Facility ID: 200000163917

OLD DOMINION TRUCK LEASING INCORPORATED VA UST U003682813 E14

SSW **7511 WHITEPINE RD** 1/8-1/4 RICHMOND, VA 23832

0.183 mi. 965 ft.

Click here for full text details

Relative: Higher

VA UST

Tank Status: REM FROM GRD Facility Id: 4001430

CEDS Facility ID: 200000172497

RCRA NonGen / NLR 1004791860

B15 **ARISTA LABORATORIES WSW** 7741 WHITEPINE RD. 1/8-1/4 RICHMOND, VA 23237 0.183 mi.

965 ft.

Click here for full text details

Relative: Higher

RCRA NonGen / NLR

EPA Id: VAR000501783

FINDS

Registry ID:: 110007903830

ECHO

Registry ID: 110007903830

N/A

VAR000501783

FINDS

ECHO

Map ID MAP FINDINGS

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

D16 **EVONIK CORPORATION** wsw 7801 WHITE PINE RD. 1/8-1/4 CHESTERFIELD, VA 23237

0.184 mi. 969 ft.

Click here for full text details

Relative: Higher

RCRA-SQG

EPA Id: VAD980719553

FINDS

Registry ID:: 110008186701

ECHO

Registry ID: 110008186701

G17 **ENVIRONMENTAL HAZARDS SERVICES LLC**

South 7469 WHITEPINE ROAD 1/8-1/4 RICHMOND, VA 23237

0.189 mi. 1000 ft.

Click here for full text details

Relative: Higher

RCRA-CESQG

EPA Id: VAR000510693

G18 **GE INSPECTION SVCS** South 7445 WHITEPINE RD NORTH CHESTERFIELD, VA 23237

1/8-1/4 0.191 mi. 1008 ft.

Click here for full text details

Relative: Higher

RCRA-SQG

EPA Id: VAD988202610

FINDS

Registry ID:: 110005246894

ECHO

Registry ID: 110005246894

H19 **MARUCHAN VIRGINIA INC** West **8101 WHITEPINE RD** NORTH CHESTERFIELD, VA 23237

1/8-1/4 0.220 mi. 1164 ft.

Click here for full text details

Relative: Higher

RCRA-CESQG

EPA Id: VAD988221107

US AIRS

RCRA-SQG 1000318163 **FINDS** VAD980719553

ECHO

RCRA-CESQG 1009218720

VAR000510693

RCRA-SQG 1000581526 **FINDS** VAD988202610

ECHO

RCRA-CESQG 1004611490

US AIRS VAD988221107

Map ID MAP FINDINGS

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MARUCHAN VIRGINIA INC (Continued)

1004611490

VA UST

VA Financial Assurance

EPA plant ID:: 110008197940

H20 **MARUCHAN VIRGINIA INC PA MANIFEST** S116738163 N/A

West 8101 WHITE PINE RD 1/8-1/4 RICHMOND, VA 23237

0.220 mi. 1164 ft.

Click here for full text details

RICHMOND, VA 23237

Relative: Higher

PA MANIFEST

Generator EPA Id: VAD988221107

FRITO LAY SALES DISTRIBUTION CTR 21 **VA LUST** U003686162 SW **8010 WHITEBARK TER VA LTANKS** N/A

1/4-1/2 0.278 mi. 1467 ft.

Click here for full text details

Relative: Higher

VA LUST

Pollution Complaint #: 19939404 Pollution Complaint #: 19900100

Facility Status: Closed

VA LTANKS

Facility Status: Closed

CEDS Facility Id: 200000171643 Pollution Complaint #: 19900100

VA UST

Tank Status: REM FROM GRD

Facility Id: 4016485

CEDS Facility ID: 200000171643

WAREHOUSE DISTRIBUTION CENTER U003995795 22 VA LTANKS SW **8030 WHITEBARK TERRACE VA UST** N/A

1/4-1/2 0.280 mi. 1481 ft.

Click here for full text details

CHESTERFIELD, VA 23237

Relative: Higher

VA LTANKS

Facility Status: Closed

CEDS Facility Id: 200000870140 Pollution Complaint #: 20164430

VA UST

Tank Status: CURR IN USE Tank Status: REM FROM GRD

Facility Id: 4039565

CEDS Facility ID: 200000870140

VA Financial Assurance

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WAREHOUSE DISTRIBUTION CENTER (Continued)

U003995795

Facility ID: 4039565 ROF Own Id: 42297

KROMA USA INCORPORATED 23 SW **8031 WHITEBARK TER** 1/4-1/2 RICHMOND, VA 23237 0.358 mi.

VA LUST U003686881 **VA LTANKS** N/A **VA UST**

1892 ft.

Click here for full text details

Relative: Higher

VA LUST

Pollution Complaint #: 20018201 Facility Status: Closed

VA LTANKS

Facility Status: Closed

CEDS Facility Id: 200000163377 Pollution Complaint #: 20018201

VA UST

Tank Status: REM FROM GRD

Facility Id: 4018905

CEDS Facility ID: 200000163377

FLOYD RESIDENCE **VA LUST** S103534028 7800 COGBILL RD **VA LTANKS** N/A

1/4-1/2 0.405 mi. 2141 ft.

24

NNW

CHESTERFIELD, VA 23832

Click here for full text details

Relative: Higher

VA LUST

Pollution Complaint #: 19994097 Facility Status: Closed

VA LTANKS

Facility Status: Closed

CEDS Facility Id: 200000188938 Pollution Complaint #: 19994097

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
VA	AIRS	Permitted Airs Facility List	Department of Environmental Quality	09/21/2018	11/01/2018	12/26/2018
VA	AST	Registered Petroleum Storage Tanks	Department of Environmental Quality	10/30/2018	11/29/2018	01/29/2019
VA	BROWNFIELDS	Brownfields Site Specific Assessments	Department of Environmental Quality	10/18/2018	10/24/2018	11/08/2018
VA	CEDS	Comprehensive Environmental Data System	Department of Environmental Quality	12/18/2018	12/19/2018	01/29/2019
VA	COAL ASH	Coal Ash Disposal Sites	Department of Environmental Protection	12/10/2018	12/12/2018	01/30/2019
VA	DRYCLEANERS	Drycleaner List	Department of Environmental Quality	12/31/2017	11/01/2018	12/26/2018
VA	ENFORCEMENT	Enforcement Actions Data	Department of Environmental Quality	06/01/2018	06/06/2018	07/05/2018
VA	ENG CONTROLS	Engineering Controls Sites Listing	Department of Environmental Quality	10/31/2018	11/06/2018	12/28/2018
VA	Financial Assurance 1	Financial Assurance Information Listing	Department of Environmental Quality	11/03/2018	11/06/2018	12/26/2018
VA	Financial Assurance 2	Financial Assurance Information listing	Department of Environmental Quality	11/01/2018	11/06/2018	12/27/2018
VA	INST CONTROL	Voluntary Remediation Program Database	Department of Environmental Quality	10/31/2018	11/06/2018	12/28/2018
VA	LTANKS	Leaking Petroleum Storage Tanks	Department of Environmental Quality	10/02/2018	11/29/2018	01/30/2019
VA	LUST REG NO	Leaking Underground Storage Tank Tracking Database	Department of Environmental Quality Northern	05/18/2004	05/22/2004	07/09/2004
VA	LUST REG PD	Leaking Underground Storage Tank Sites	Department of Environmental Quality Piedmont	12/02/2014	12/04/2014	01/16/2015
VA	LUST REG SC	Leaking Underground Storage Tanks	Department of Environmental Quality, South Ce	09/06/2013	09/06/2013	09/17/2013
VA	LUST REG SW	Leaking Underground Storage Tank Database	Department of Environmental Quality Southwest	07/15/2013	07/18/2013	09/16/2013
VA	LUST REG TD	Leaking Underground Storage Tank Sites	Department of Environmental Quality Tidewater	06/30/2013	07/05/2013	09/16/2013
VA	LUST REG VA	Leaking Underground Storage Tank List	Department of Environmental Quality Valley Re	12/06/2011	12/08/2011	01/16/2012
VA	LUST REG WC	Leaking Underground Storage Tank List	Department of Environmental Quality West Cent	06/04/2015	06/05/2015	07/07/2015
VA	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Environmental Quality		07/01/2013	01/20/2014
VA	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	Department of Environmental Quality		07/01/2013	01/15/2014
VA	SHWS	This state does not maintain a SHWS list. See the Federal CE	Department of Environmental Quality		0170172010	01/10/2011
VA	SPILLS	Prep/Spills Database Listing	Department of Environmental Quality	11/01/2018	11/29/2018	01/30/2019
VA	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	09/01/2012	01/03/2013	02/15/2013
VA	SPILLS BRL	Prep/Spills Database Listing	DEQ, Blue Ridge Regional Office	09/18/2009	09/18/2009	10/06/2009
VA	SPILLS NO	PREP Database	Department of Environmental Quality, Northern	09/23/2009	09/29/2009	10/30/2009
VA	SPILLS PC	Pollution Complaint Database	Department of Environmental Quality	06/01/1996	10/22/1996	11/21/1996
VA	SPILLS PD	PREP Database	Department of Environmental Quality, Piedmont	10/20/2009	10/29/2009	12/03/2009
VA	SPILLS SW	Reportable Spills	Department of Environmental Quality, Southwes	01/21/2010	01/22/2010	02/16/2010
VA	SPILLS TD	PREP Database	Department of Environmental Quality, Tidewate	09/17/2009	09/23/2009	10/06/2009
VA	SPILLS VA	PREP Database	Department of Environmental Quality, Valley R	08/08/2012	08/09/2012	10/05/2012
VA	SPILLS WC	Prep Database	Department of Environmental Quality, West Cen	09/21/2009	09/29/2009	10/30/2009
VA	SWF/LF	Solid Waste Management Facilities	Department of Environmental Quality	12/03/2018	12/04/2018	01/30/2019
VA	TIER 2	Tier 2 Information Listing	Department of Environmental Quality	12/31/2014	01/20/2017	02/14/2017
VA	UIC	Underground Injection Control Wells	Department of Mines, Minerals and Energy	10/30/2018	10/31/2018	12/27/2018
VA	UST	Registered Petroleum Storage Tanks	Department of Environmental Quality	10/30/2018	11/29/2018	01/29/2019
VA	VRP	Voluntary Remediation Program	Department of Environmental Quality	10/31/2018	11/06/2018	12/28/2018
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	09/30/2017	05/08/2018	07/20/2018
US	ABANDONED MINES	Abandoned Mines	Department of Interior	09/10/2018	09/11/2018	09/14/2018
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2015	02/22/2017	09/28/2017
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2005	08/07/2009	10/22/2009
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	07/01/2014	09/10/2014	10/20/2014
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	09/30/2018	10/12/2018	12/07/2018
US	CORRACTS	Corrective Action Report	EPA	03/01/2018	03/28/2018	06/22/2018
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	05/31/2018	07/26/2018	10/05/2018
	DOD	Department of Defense Sites	USGS		11/10/2006	01/11/2007
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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	DOT OPS	Incident and Accident Data	Department of Transporation, Office of Pipeli	10/01/2018	10/30/2018	01/18/2019
US	Delisted NPL	National Priority List Deletions	EPA	12/12/2018	12/28/2018	01/11/2019
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	09/02/2018	09/05/2018	09/14/2018
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EPA WATCH LIST	EPA WATCH LÍST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	09/24/2018	09/25/2018	11/09/2018
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	11/07/2016	01/05/2017	04/07/2017
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	12/31/2005	02/06/2006	01/11/2007
US	FEMA UST	Underground Storage Tank Listing	FEMA	05/15/2017	05/30/2017	10/13/2017
US	FINDS	Facility Index System/Facility Registry System	EPA	11/15/2018	12/05/2018	01/11/2019
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	01/31/2015	07/08/2015	10/13/2015
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	08/22/2018	08/22/2018	10/05/2018
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	08/08/2017	09/11/2018	09/14/2018
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	03/26/2018	03/27/2018	06/08/2018
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Serivces, Indian	04/01/2014	08/06/2014	01/29/2015
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	04/13/2018	05/18/2018	07/20/2018
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	04/12/2018	05/18/2018	07/20/2018
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	05/08/2018	05/18/2018	07/20/2018
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	04/12/2018	05/18/2018	07/20/2018
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land Leaking Underground Storage Tanks on Indian Land	EPA Region 6	04/01/2018	05/18/2018	07/20/2018
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land Leaking Underground Storage Tanks on Indian Land	EPA Region 7	04/24/2018	05/18/2018	07/20/2018
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land Leaking Underground Storage Tanks on Indian Land	EPA Region 8	04/25/2018	05/18/2018	07/20/2018
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	04/10/2018	05/18/2018	07/20/2018
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/1998	07/14/2015	01/24/2008
US	INDIAN UST R1			04/13/2014	05/18/2018	07/20/2018
US	INDIAN UST R10	Underground Storage Tanks on Indian Land Underground Storage Tanks on Indian Land	EPA Region 1	04/13/2018	05/18/2018	07/20/2018
US			EPA Region 10		05/18/2018	
	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	05/08/2018		07/20/2018
US	INDIAN UST R5	Underground Storage Tanks on Indian Land Underground Storage Tanks on Indian Land	EPA Region 5	04/12/2018	05/18/2018	07/20/2018
US	INDIAN UST R6		EPA Region 6	04/01/2018	05/18/2018	07/20/2018
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	04/24/2018	05/18/2018	07/20/2018
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	04/25/2018	05/18/2018	07/20/2018
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	04/10/2018	05/18/2018	07/20/2018
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	12/12/2018	12/28/2018	01/11/2019
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	12/12/2018	12/28/2018	01/11/2019
US	LUCIS	Land Use Control Information System	Department of the Navy	10/17/2018	10/25/2018	12/07/2018
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	08/30/2016	09/08/2016	10/21/2016

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	NPL	National Priority List	EPA	12/12/2018	12/28/2018	01/11/2019
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	09/14/2018	10/11/2018	12/07/2018
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	05/24/2017	11/30/2017	12/15/2017
US	PRP	Potentially Responsible Parties	EPA	08/13/2018	10/04/2018	11/09/2018
US	Proposed NPL	Proposed National Priority List Sites	EPA	12/12/2018	12/28/2018	01/11/2019
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	10/02/2018	10/03/2018	11/09/2018
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	03/01/2018	03/28/2018	06/22/2018
US	RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generators	Environmental Protection Agency	03/01/2018	03/28/2018	06/22/2018
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	03/01/2018	03/28/2018	06/22/2018
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	03/01/2018	03/28/2018	06/22/2018
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	03/01/2018	03/28/2018	06/22/2018
US	RMP	Risk Management Plans	Environmental Protection Agency	10/26/2018	11/06/2018	01/11/2019
US	ROD	Records Of Decision	EPA	12/12/2018	12/28/2018	01/11/2019
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	01/01/2017	02/03/2017	04/07/2017
US	SEMS	Superfund Enterprise Management System	EPA	12/12/2018	12/28/2018	01/11/2019
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	12/13/2018	12/28/2018	01/11/2019
US	SSTS	Section 7 Tracking Systems	EPA	12/31/2009	12/10/2010	02/25/2011
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2016	01/10/2018	01/12/2018
US	TSCA	Toxic Substances Control Act	EPA	12/31/2016	06/21/2017	01/05/2018
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	06/23/2017	10/11/2017	11/03/2017
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	12/17/2018	12/18/2018	01/11/2019
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	09/21/2018	09/21/2018	11/09/2018
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	07/31/2018	08/28/2018	09/14/2018
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	08/31/2018	09/25/2018	11/09/2018
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	09/21/2018	09/21/2018	11/09/2018
US	US INST CONTROL	Sites with Institutional Controls	Environmental Protection Agency	07/31/2018	08/28/2018	09/14/2018
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	08/01/2018	08/29/2018	10/05/2018
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	12/05/2005	02/29/2008	04/18/2008
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UXO	Unexploded Ordnance Sites	Department of Defense	09/30/2017	06/19/2018	09/14/2018

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	11/12/2018	11/14/2018	12/04/2018
NJ MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2017	07/13/2018	08/01/2018
NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	01/01/2019	01/30/2019	02/14/2019
PA MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2017	10/23/2018	11/27/2018
RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2017	02/23/2018	04/09/2018
WI MANIFEST	Manifest Information	Department of Natural Resources	12/31/2017	06/15/2018	07/09/2018
AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
Daycare Centers	Sensitive Receptor: Licensed Facilities	Department of Social Services			
Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
Topographic Map	·	U.S. Geological Survey			
Oil/Gas Pipelines		PennWell Corporation			
•	ata	PennWell Corporation			
	CT MANIFEST NJ MANIFEST NY MANIFEST PA MANIFEST RI MANIFEST WI MANIFEST WI MANIFEST AHA Hospitals Medical Centers Nursing Homes Public Schools Private Schools Daycare Centers Flood Zones NWI Topographic Map Oil/Gas Pipelines	CT MANIFEST NJ MANIFEST Manifest Information NY MANIFEST Facility and Manifest Data PA MANIFEST Manifest Information RI MANIFEST Manifest Information WI MANIFEST Manifest Information WI MANIFEST Manifest Information AHA Hospitals Medical Centers Nursing Homes Sensitive Receptor: Medical Centers Nursing Homes Public Schools Private Schools Sensitive Receptor: Public Schools Private Schools Daycare Centers 100-year and 500-year flood zones NWI National Wetlands Inventory Topographic Map	CT MANIFEST	CT MANIFEST NJ MANIFEST NJ MANIFEST Manifest Information NJ MANIFEST NY MANIFEST PA MANIFEST PA MANIFEST PA MANIFEST RACILITY and Manifest Data NJ MANIFEST PA MANIFEST PA MANIFEST PA MANIFEST PA MANIFEST RACILITY AND Manifest Information NJ MANIFEST PA MANIFEST PA MANIFEST NA MANIFEST NA MANIFEST Manifest information PEpartment of Environmental Conservation NJ MANIFEST Manifest information Pepartment of Environmental Protection 12/31/2017 NJ MANIFEST Manifest Information Pepartment of Environmental Management 12/31/2017 NJ MANIFEST Manifest Information Pepartment of Environmental Management 12/31/2017 NJ MANIFEST Manifest Information Pepartment of Environmental Management 12/31/2017 NJ MANIFEST Manifest Information Pepartment of Environmental Protection 12/31/2017 NJ MANIFEST Manifest Information Pepartment of Environmental Protection 12/31/2017 NJ MANIFEST Manifest Information Pepartment of Environmental Protection 12/31/2017 NJ MANIFEST Manifest Information Pepartment of Environmental Protection 12/31/2017 NJ Manifest Information Pepartment of Environmental Protection 12/31/2017 NJ Manifest Information Pepartment of Environmental Protection 12/31/2017 NJ Manifest Information Pepartment of Environmental Protection 12/31/2017 NJ Manifest Information Pepartment of Environmental Protection 12/31/2017 NJ Manifest Information Pepartment of Environmental Protection 12/31/2017 NJ Manifest Information Pepartment of Environmental Protection 12/31/2017 NJ Manifest Information Pepartment of Environmental Management 12/31/2017 NJ Manifest Information Pepartment of Environmental Management 12/31/2017 NJ Manifest Information Pepartment of Environmental Management 12/31/2017 NJ Manifest Information Pepartment of Environmental Management 12/31/2017 NJ Manifest Information Pepartment of Environmental Management 12/31/2017 NJ Manifest Information Pepartment of Environmental Management 12/31/2017 NJ Manifest Information Pepartment of Environmental Management 12/31/2017 NJ Manifest Information Pepartment of Environmental Manageme	CT MANIFEST Hazardous Waste Manifest Data NJ MANIFEST Manifest Information NY MANIFEST Hacility and Manifest Data NY MANIFEST Pacility and Manifest Data PA MANIFEST Facility and Manifest Data PA MANIFEST Hacility and Manifest Data PA MANIFEST Hacility and Manifest Data PA MANIFEST Manifest Information PA MANIFEST Manifest Information Papartment of Environmental Protection Department of Environmental Protection 12/31/2017 1

STREET AND ADDRESS INFORMATION

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GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CHESTERFIELD AIRPORT 7431 AIRFIELD DRIVE RICHMOND, VA 23237

TARGET PROPERTY COORDINATES

Latitude (North): 37.406673 - 37° 24' 24.02" Longitude (West): 77.5192 - 77° 31' 9.12"

Universal Tranverse Mercator: Zone 18 UTM X (Meters): 277026.4 UTM Y (Meters): 4142762.0

Elevation: 199 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 5951049 CHESTERFIELD, VA

Version Date: 2013

Northeast Map: 5951067 DREWRYS BLUFF, VA

Version Date: 2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

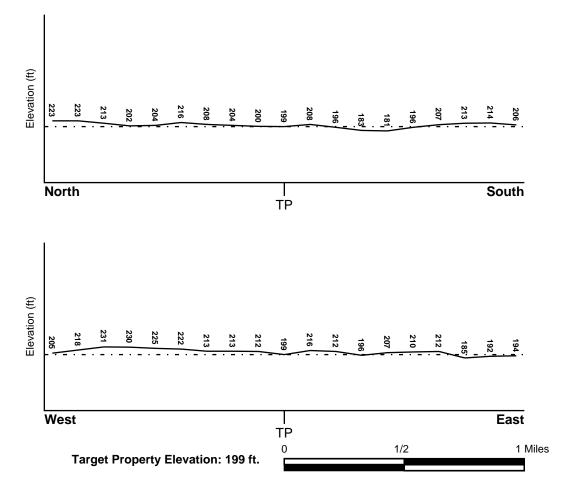
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property FEMA Source Type

51041C0142D FEMA FIRM Flood data

Additional Panels in search area: FEMA Source Type

51041C0145D FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property Data Coverage

CHESTERFIELD YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles
Location Relative to TP: 1 - 2 Miles ENE

Site Name: Virginina Air National Guard

Site EPA ID Number: VA0572890002

Surficial Aquifer Flow Dir.: TOWARD LOCAL STREAMS WITHIN THE WHITE OAK CREEK WATERSHED.

Inferred Depth to Water: 1 foot to 15 feet.

Hydraulic Connection: The surficial Yorktown aguifer is unconfined and underlain by three

confined (artesian) aquifers.

Sole Source Aquifer: No information about a sole source aquifer is available
Data Quality: Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

 MAP ID
 FROM TP
 GROUNDWATER FLOW

 Not Reported
 GROUNDWATER FLOW

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

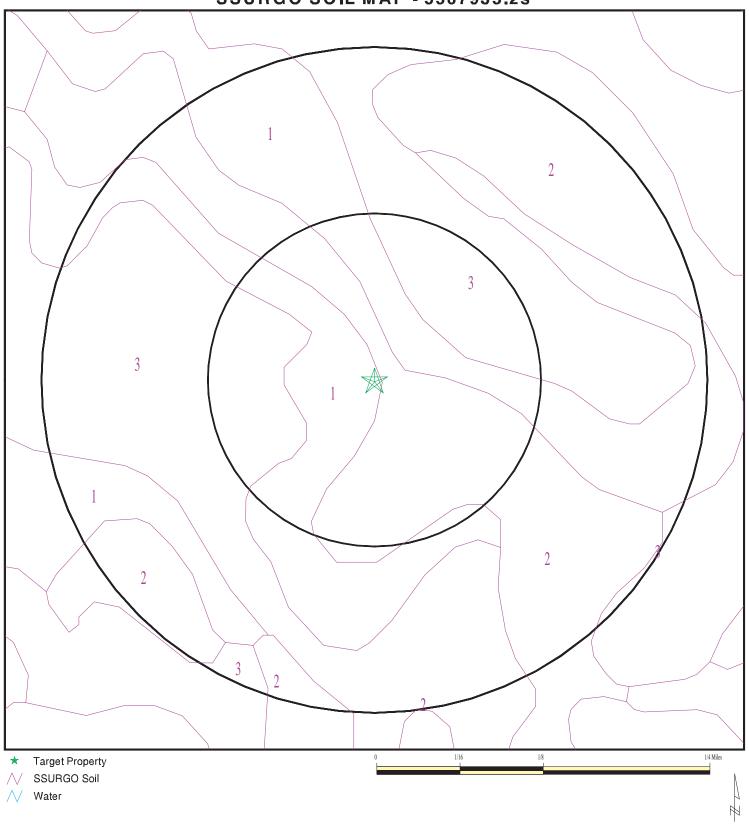
Era: Cenozoic Category: Stratified Sequence

System: Tertiary Series: Miocene

Code: Tm (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5567935.2s



SITE NAME: Chesterfield Airport ADDRESS: 7431 Airfield Drive Richmond VA 23237 LAT/LONG:

37.406673 / 77.5192

CLIENT: AECOM
CONTACT: Brittany Kirchmann
INQUIRY#: 5567935.2s
DATE: February 20, 2019 5:12 pm

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Colfax variant

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information							
	Вои	ındary		Classification		Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)	
1	0 inches	9 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6 Min: 3.6	
2	9 inches	16 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6 Min: 3.6	
3	16 inches	20 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6 Min: 3.6	
4	20 inches	51 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6 Min: 3.6	

	Soil Layer Information							
	Boundary			Classification		Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec		
5	51 inches	72 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6 Min: 3.6	

Soil Map ID: 2

Soil Component Name: Bourne

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

	Soil Layer Information						
	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	11 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 1.4	Max: 6 Min: 3.6
2	11 inches	22 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 1.4	Max: 6 Min: 3.6

	Soil Layer Information						
	Вои	ındary		Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Oon Reaction
3	22 inches	44 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 1.4	Max: 6 Min: 3.6
4	44 inches	72 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 1.4	Max: 6 Min: 3.6

Soil Map ID: 3

Soil Component Name: Aquults

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

	Soil Layer Information								
	Boundary			Classification		Saturated hydraulic			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec			
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 0.42	Max: 6.5 Min: 3.6		

	Soil Layer Information							
	Вои	ındary		Classi	fication	Saturated hydraulic		
Layer	Upper	pper Lower Soil Texture Class AASHTO Group		Unified Soil	conductivity micro m/sec	Soil Reaction (pH)		
2	7 inches	11 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 0.42	Max: 6.5 Min: 3.6	
3	11 inches	50 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 0.42	Max: 6.5 Min: 3.6	
4	50 inches	72 inches	gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 0.42	Max: 6.5 Min: 3.6	

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

MAP ID WELL ID FROM TP

No Wells Found

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID WELL ID LOCATION FROM TP

No PWS System Found

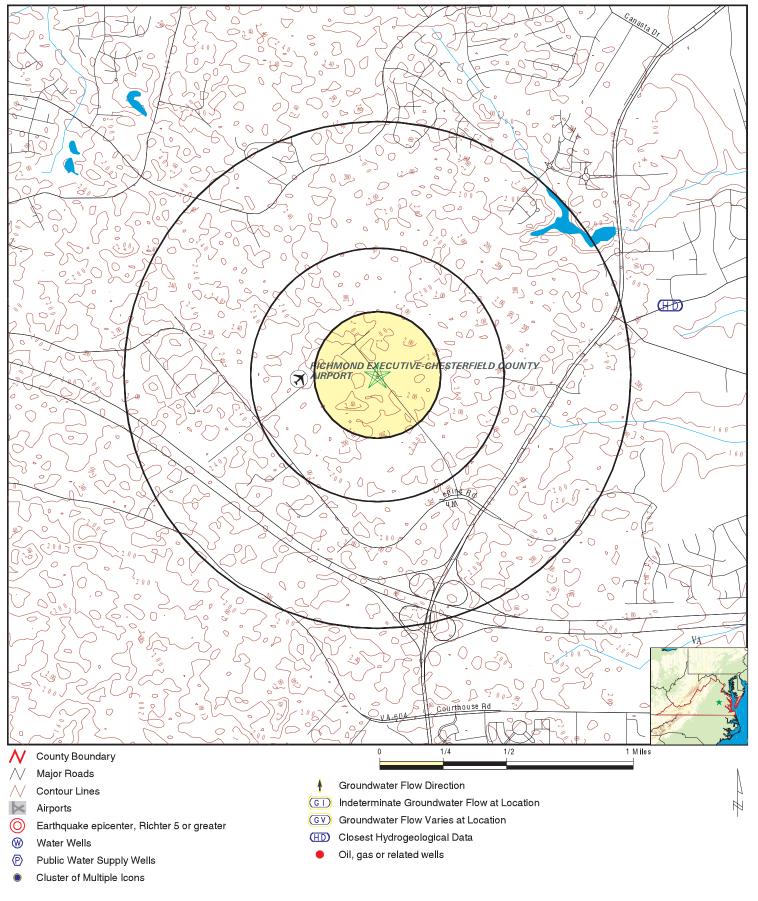
Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

LOCATION MAP ID WELL ID FROM TP

No Wells Found

PHYSICAL SETTING SOURCE MAP - 5567935.2s



SITE NAME: Chesterfield Airport
ADDRESS: 7431 Airfield Drive
Richmond VA 23237
LAT/LONG: 37.406673 / 77.5192

CLIENT: AECOM
CONTACT: Brittany Kirchmann
INQUIRY #: 5567935.2s
DATE: February 20, 2019 5:12 pm

GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation
Database
EDR ID Number

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

EPA Region 3 Statistical Summary Readings for Zip Code: 23237

Number of sites tested: 37.

Maximum Radon Level: 4.5 pCi/L.

Minimum Radon Level: 0.0 pCi/L.

pCi/L pCi/L pCi/L pCi/L pCi/L pCi/L <4 4-10 10-20 20-50 50-100 >100 36 (97.30%) 1 (2.70%) 0 (0.00%) 0 (0.00%) 0 (0.00%) 0 (0.00%)

Federal EPA Radon Zone for CHESTERFIELD County: 1

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Virginia Public Water Supplies

Source: Department of Health, Office of Water Programs

Telephone: 804-786-1756

OTHER STATE DATABASE INFORMATION

Virginia Oil and Gas Wells

Source: Department of Mines, Minerals and Energy

Telephone: 804-692-3200

A listing of oil and gas well locations.

RADON

Area Radon Information Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at

private sources such as universities and research institutions.

EPA Radon Zones Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

EPA Region 3 Statistical Summary Readings

Source: Region 3 EPA Telephone: 215-814-2082

Radon readings for Delaware, D.C., Maryland, Pennsylvania, Virginia and West Virginia.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared

in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Deed of Lease

This DEED OF LEASE (the "Lease") is dated the 3151 day of May, 2013, between COUNTY OF CHESTERFIELD, VIRGINIA, a political subdivision of the Commonwealth of Virginia, Grantor ("Landlord"), and the COMMONWEALTH OF VIRGINIA, DEPARTMENT OF GENERAL SERVICES, as Grantee ("Tenant"), with approval of the Governor pursuant to § 2.2-1149 of the Code of Virginia (1950), as amended.

WITNESSETH

1. **PREMISES.** For and in consideration of the terms, conditions, covenants, promises and agreements herein made, Landlord leases to Tenant the following property or premises (the "Premises") located within the complex of the Chesterfield County Airport (the "Airport"), together with full rights of ingress and egress, in the County of Chesterfield, Virginia. The Premises are more particularly described as:

Approximately 2,218 square feet of office space and 19,500 square feet of hangar space composed of the following:

- (a) Building #7431. All of the hangar located at 7431 Airfield Drive, North Chesterfield, Virginia 23237, consisting of approximately 9, 500 square feet and including 1,000 square feet of office space, referred to hereafter as "Building 7431" as shown on Exhibit A;
- (b) Building #7417. All of the hangar located at 7417 Airfield Drive, North Chesterfield, Virginia 23237, consisting of approximately 10,000 square feet, referred to hereafter as "Building #7417", as shown on Exhibit B;
- (c) Building #7501. Approximately 1,218 square feet of office space on the 2nd Floor of the building located at 7501 Airfield Drive, North Chesterfield, Virginia 23237, referred to hereafter as "Building #7501", as shown on Exhibit C;

along with the exclusive use of thirty-two (32) parking spaces, of which twenty-two (22) parking spaces are located behind Building #7431 and ten (10) parking spaces located behind Building #7417 as shown on Exhibit D, "Site Map for VaARNG," and the non-exclusive use of parking space nos. 10, 11, 12, 18, 19 and 20 located on the south ramp as shown on Exhibit D, labeled as "Preferential/Non-Exclusive Tie-down Staging Area"; and the non-exclusive right to use in common with others the public portions of the Airport including the runways, taxiways, aircraft ramp, wash rack, temporary parking or stopping areas, public automobile parking and the Airport conference rooms subject to the general rules and regulations established by the Landlord for the Airport, a copy which is attached hereto as Attachment 2.

Landlord warrants that Landlord alone, at the time this Lease is executed, has the right to lease the Premises, without the consent of any other party. It is expressly understood and

agreed that this covenant by the Landlord constitutes a warrant. If Landlord does not have this right, then Tenant, in addition to any other remedy available at law or in equity, may immediately declare this Lease null and void from its inception and of no force and effect, without notice. In such event, no rent shall accrue or be deemed to have accrued for the term of this Lease, or for any part of the term.

This Lease and the terms hereof are subject to change, if required by the Virginia Department of Aviation or the Federal Aviation Administration. This Lease shall be subordinate to the provisions of any existing or future agreement with the United States Government or other federal agency as a condition to receive grant funds for the continued development of the Airport. Nevertheless, the terms of this Lease shall remain in effect until such time as Landlord gives written notice of a change as a result of the foregoing, and upon such notice Tenant, in its discretion, shall have the right to terminate this Lease.

2. USE OF PREMISES.

- The Department of General Services, through its Division of Real Estate (a) Services, is responsible for the leasing of space for the use of agencies of the Commonwealth of Virginia. The Department of General Services, as Tenant herein, does not contemplate that it will occupy the Premises itself, but rather that the Premises will be used by Department of Military Affairs (herein, "Occupant"). No such designation shall be deemed a subletting or assignment of this Lease and Tenant shall remain the tenant hereunder. Landlord acknowledges that no such designation or occupancy creates any contractual relationship between Landlord and Occupant. Occupant shall have the benefit of any rights of Tenant associated with this Lease. Occupant is authorized to deal directly with Landlord concerning routine maintenance and repairs, building access, entry of Landlord onto its Premises and similar matters; provided, however, that nothing herein prevents Tenant from dealing directly with Landlord as to any such matters. Landlord shall deal solely with Tenant as to major repairs, insurance, untenantability, breaches or defaults, termination, extensions of the term (including the option terms), and additional charges imposed by Landlord (as may be authorized by this Lease or subsequent agreement of the parties). Occupancy by the Department of Military Affairs is hereby approved by Landlord.
- (b) The Premises shall be used for general offices, storage of aircraft and supplies, maintenance of aircraft, training and operational purposes. Landlord represents that such uses are consistent with the zoning regulations and ordinances applicable to the Airport.
- (c) Landlord reserves unto itself, its successors and assigns, for the use and benefit of the public, and Tenant agrees not to interfere with the right of flight for the passage of aircraft in the airspace above the surface of the Premises, together with the right to cause in said airspace such noise and vibration as may be

inherent in the operation of aircraft and for use of said airspace for landing on, taking off from or operating on the Airport.

- (d) Tenant shall, at all times during the term of this Lease, and any extension thereto, comply with the Rules and Regulations attached hereto as Attachment 2. Landlord reserves the right to amend the Rules and Regulations, provided, however, that Tenant may terminate this Lease if it determines, in its sole discretion, that such amendment materially adversely impacts on its ability to use the Premises. To the extent there are any conflicts between the provisions of this Lease and the Rules and Regulations, the provisions of this Lease shall prevail.
- 3. **TERM.** The initial term of this Lease (the "Initial Term") shall be five (5) years, beginning on August 1, 2013 (the "Commencement Date"), and terminating on July 31, 2018 (the "Termination Date"), subject to the provisions of <u>Attachment 1</u>. The Commencement Date shall be confirmed by Landlord and Tenant by the execution of a written certificate of commencement of the Initial Term following occurrence thereof in the form attached hereto as <u>Exhibit E</u>.

4. RENT.

(a) Tenant shall pay Landlord the sum of One Hundred Thirty Seven Thousand Four Hundred and 00/100 Dollars (\$137,400.00) as rent (the "Rent") for the first year of the Initial Term which shall be paid in arrears, in monthly installments of Eleven Thousand Four Hundred Fifty and 00/100 Dollars (\$11,450.00), due and payable at the end of each month. The payment of all Rent shall be made payable to Chesterfield County Treasurer and mailed to:

Chesterfield County
Real Property Manager
P.O. Box 608
Chesterfield, Virginia 23832-0009

or to such other person or entity or at such other address as Landlord may designate from time to time by written notice to Tenant.

- (b) Subject to the provisions of this Lease, the Rent is based on a full service lease, including all common area maintenance, management fees, Landlord insurance and real estate taxes, as well as utilities serving the portion of the Premises referred to herein as Building #7501, with no pass-throughs. Tenant shall procure and pay all utilities serving the portion of Premises referred to herein as Building #7417 and Building #7431.
- (c) No security deposit shall be required.
- (d) Annual CPI Adjustment. On the first anniversary of the Commencement Date and on each subsequent anniversary thereof, including any renewals or extensions

of this Lease, the Rent shall escalate by the percentage increase, if any, over the previous year's Consumer Price Index (CPI) (as hereinafter defined)(example: prior year – 197, current year 206; 206/197= 4.57% increase; rent escalates 4.57%. As used herein, the Consumer Price Index shall mean the United States Department of Labor's Bureau of Labor Statistics, Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), all items index: Selected Areas (1982-1984 = 100), and within such table the indices under "Region/population size class cross classification - South urban", or the successor to that index. The CPI-W for the calculations shall be the figure in effect three (3) months prior to the Commencement Date and anniversary dates, as applicable. All calculations shall be rounded to the nearest hundredth. In no event shall the new Rent be less than the preceding year's Rent.

(e) No other fees or charges will be assessed for use of the public portions of the Airport, including runways, taxiways, aircraft ramp, wash rack, temporary parking or stopping areas, or public automobile parking, nor shall any additional airport use agreement for the use of such areas be required.

5. POSSESSION AND CONDITION OF PREMISES.

- (a) Landlord shall deliver quiet possession of the Premises to Tenant on the Commencement Date and shall provide quiet enjoyment of the Premises to Tenant during the Initial Term, and any renewals or extensions thereof.
- (b) On the Commencement Date, Landlord shall deliver the Premises to Tenant in good repair, broom clean, in compliance with all applicable building and occupancy codes, and in a condition suitable to the use for which it is leased.
- Landlord, and its employees, agents and contractors, shall have the right to enter and pass through any part of the Premises, without prior notice, only in the case of an emergency and to provide routine janitorial services consistent with this Lease. If Landlord, or Landlord's employees, agents or contractors, must enter the Premises in the case of an emergency, then as soon as practicable before or after such emergency entrance, Landlord, or Landlord's agent, shall contact Department of Military Affairs, LTC Perry Jones, 224th Battalion Commander, (804) 305-2896 and Virginia Army National Guard Joint Emergency Operations Center, (804) 236-7704. This contact person may be changed by proper notice to Landlord.
- (d) Landlord covenants that (i) the Buildings are free of friable asbestos that is not managed under a management plan prepared by an Asbestos Management Planner licensed by the Virginia Department of Professional and Occupational Regulation; and (ii) any friable asbestos discovered in or on the Buildings shall be promptly and properly removed by Landlord, at Landlord's sole expense, in compliance with applicable federal, state and local laws and regulations, provided

that, if the asbestos was introduced into the Buildings by Tenant or Occupant, the cost of the removal thereof shall be Tenant's expense.

6. MAINTENANCE.

- (a) Landlord warrants that on the Commencement Date, the Premises and all its equipment, including the overhead doors, plumbing, heating, ventilation and air conditioning equipment and systems: (i) shall be in good repair and good working order; and (ii) free of termite or other pest infestation and damage.
- Landlord shall equip the Premises and perform all alterations, replacements, (b) improvements, decontamination, and additions to the Premises and Landlord's equipment upon the Premises, at Landlord's expense, as shall be necessary at any time during the Initial Term of this Lease, or any extension or renewal thereof, to comply with the provisions of federal, State and local laws and regulations pertaining to health, safety, public welfare, and environmental protection. including laws and regulations pertaining to asbestos, carbon monoxide, polychlorinated biphenyls, urea formaldehyde, lead paint, radon, petroleum product storage tanks, and freon, regardless of the effective date of law or regulation unless the Premises are grandfathered from such laws or regulations. This subsection shall not apply if the necessity for compliance with these laws arises from a grossly negligent or willful act of Tenant and its employees and Tenant is found by a court of competent jurisdiction to be liable for such acts under the Virginia Tort Claims Act, or the Commonwealth's Division of Risk Management consents that the Tenant is so liable.
- (c) It shall be the sole responsibility and obligation of Landlord, at its expense and in accordance with applicable laws, technical publications, manuals and standard procedures, to (i) properly maintain, repair and replace all the structural portions of the Premises, including foundation, sub-floor, structural walls and roof, as well as to keep the Premises and all building equipment and non-trade fixtures, in good working order and to perform any required repairs, replacement and maintenance, and (ii) keep all plumbing, heating, air conditioning, electrical and mechanical devices, appliances and equipment (owned by Landlord) of every kind or nature affixed to or serving the Premises in good repair, condition and working order. All equipment and systems shall be maintained to provide reliable, energy efficient service, without unusual interruption, disturbing noises, exposure to fire or safety hazards, uncomfortable drafts, excessive air velocities, or unusual emissions of dirt. As used herein, the word "repair" shall be deemed to include replacement of broken or cracked glass.
- (d) All other necessary or required maintenance, repairs and replacements to the Premises and common areas shall be the sole responsibility and expense of Landlord. Landlord's maintenance responsibilities shall include the supply and replacement of all supplies, materials and equipment necessary for such maintenance. Landlord shall provide janitorial services to the office portion of

Premises referred to herein as Buildings #7431 and #7501. Specifications and frequency for janitorial services are set out in Exhibit J. Janitorial services of a disruptive nature, such as washing/waxing floors and vacuuming, shall be performed after regular business hours.

- (e) Landlord shall not be obligated to make any repairs to the Premises due to damage caused by the grossly negligent or willful acts of Tenant, or its agents, employees, or contractors.
- If, within 15 days of receiving written notice from Tenant, Landlord fails to (f) comply with any of its obligations under this Section 6, or fails to keep, repair and maintain the Premises, including all plumbing, heating, air conditioning, electrical and mechanical devices, appliances and equipment of every kind or nature affixed to or serving the Premises, in good repair, condition and working order as provided in this Section, then Tenant, at its option, after 30 days written notice to Landlord, may either terminate this Lease and all obligations hereunder, or proceed to make, or cause to be made, such upkeep, repair and maintenance, at Landlord's expense. Tenant may deduct the verifiable cost thus incurred in fulfilling the Landlord's obligations under this Lease from future Rent payments. Furthermore, Tenant shall be entitled to deduct from the Rent, or any installment thereof, the per diem rental for that portion of the Premises (on a square footage basis) that are rendered unsuitable for use as a result of the breakdown or malfunction of any equipment or structural element that Landlord has herein agreed to keep, repair, and maintain; provided, however, that this deduction from the Rent shall not commence until the first day after Landlord has been given written notice of the breakdown or malfunction. No notice of termination shall be given under this Section if Landlord has physically commenced such repairs or is causing such repairs to be made, and such repair work is being diligently and continuously pursued to completion in a good and workmanlike manner. For purposes of this provision, "unsuitable for use" shall mean that the Occupant in its reasonable discretion has directed its non-essential staff to leave the Building or not report to work: (1) due to health or safety issues relating to the breakdown or malfunction, or (2) because the breakdown or malfunction makes the Premises non-functional for warehouse use.
- (h) Tenant and Occupant shall have access to the Premises 24 hours a day, 365 days a year.
- (i) Snow Removal. When and as snow and/or ice removal become necessary, Landlord shall promptly remove all snow and ice from all walkways, common areas, runways, taxiways and ramps up to five (5) feet from facility structures on an operational priority basis pursuant to the Chesterfield Airport Snow and Ice Control Plan, attached hereto as Exhibit K. Tenant shall, at all times during the term of this Lease, and any extension thereto, comply with the Chesterfield Airport Snow and Ice Control Plan. Landlord reserves the right to amend the Chesterfield Airport Snow and Ice Control Plan, provided, however, that Tenant

may terminate this Lease if it determines, in its sole discretion, that such amendment materially adversely impacts its ability to use the Premises.

7. DAMAGE OR DESTRUCTION OF THE PREMISES.

- (a) If any of the Buildings are damaged by fire, lightning, windstorm, tornado, earthquake, civil disturbance, flood, acts of nature or other casualty loss, and, in the reasonable opinion of Tenant, the portion of the Premises within any such Building are thereby rendered substantially untenantable or unusable, and cannot be rebuilt within a reasonable period of time, and Landlord and Tenant are unable to agree on an appropriate modification to this Lease, then this Lease shall terminate, at the option of Tenant, effective on the date of the casualty, upon written notice to Landlord.
- (b) If any of the Buildings are damaged by fire or otherwise, but in the reasonable opinion of Tenant are not rendered substantially untenantable and unusable, or may be rebuilt within one hundred eighty (180) days, upon being notified to do so by Tenant, Landlord shall repair and restore the such Building as promptly as possible to its former condition, in which event there shall be a proportionate abatement of all Rent (on a square footage basis) and other payments otherwise due to Landlord under the terms of this Lease, for the period during which the said repairs and restoration are being completed, for that portion of the Premises not substantially usable by Tenant during such period. Landlord shall commence to make all repairs, replacement, restoration, or renovation as required in this subsection, or as otherwise required in this Lease where no other remedy is expressly provided, within a reasonable time after written notice to Landlord, and shall thereafter diligently pursue such repairs, replacement, restoration or renovation until completed. If Landlord and Tenant are unable to agree on the amount of time necessary to complete all such work, Tenant shall have the right at its expense to secure an independent determination as to the time required, which determination shall be final with respect to Tenant's exercise of its rights herein. If Landlord shall fail to perform as herein required, then Tenant may choose either option (i) or (ii) below:
 - (i) Tenant, or Occupant (if authorized by Tenant), may undertake with its own resources to repair, replace, restore or renovate the damaged portion of the Premises and may deduct the reasonable and verifiable costs of the repairs, replacement, restoration, and renovation from the Rent or other payments otherwise due to Landlord under the terms of this Lease, or any renewal or extension thereof; or
 - (ii) Tenant may terminate this Lease by giving fifteen (15) business days written notice to Landlord. No termination shall be authorized under this subsection if Landlord, or its agents, has physically commenced repairs, replacement, restoration or renovation prior to the date that notice of

- termination is given, and the work is being diligently and continuously pursued to completion in a professional and workmanlike manner.
- (c) Delay of Landlord and its insurer to reach an agreement on the extent of the work to be performed or the respective responsibilities of Landlord and its insurer relating to the cost of such work shall not constitute a reasonable basis for delay by Landlord in the performance of its obligations herein. If Landlord is willing to repair and restore the Premises, but is unable to do so in a manner that is substantially equivalent to the quality and condition of the Premises prior to the casualty, then, unless Landlord and Tenant shall agree on an appropriate reduction to the Rent or other concessions, Tenant shall have the right to terminate the Lease upon written notice to Landlord.

8. **ALTERATIONS.**

- (a) Tenant, at its sole cost and expense, may make alterations and additions to the Premises as Tenant deems proper. Tenant, however, shall not make any structural alterations of the roof, foundation, interior or exterior walls without the prior written consent of Landlord, which decision shall not be unreasonably withheld or delayed. Tenant, at its sole cost and expense, may install fixtures. partitions and make such other improvements as Tenant may deem proper. The title and ownership of materials used in such alterations and additions, and all fixtures, partitions, and other improvements made and/or installed by Tenant shall remain in Tenant. Upon termination of this Lease, Tenant may, at its option, remove the fixtures, partitions and other improvements made under this Section, in which event any damage to the Premises caused by removal, other than nominal damage (such as screw holes, bracket marks, etc.) shall be repaired by Tenant at its expense. If Tenant elects not to remove the improvements, it shall have no further responsibility for them or their removal.
- (b) Tenant Improvements. In consideration for the Rent, Landlord agrees to perform, and Tenant's obligations under this Lease are expressly conditioned upon, Landlord's performance and completion of the following work: Install all IT improvements as outlined in Exhibit G and Exhibit H, complete Force Protection Requirements as outlined on Exhibit I, install four (4) 120 volt single phase Solaronics Infrared Space Heaters in Building #7431 and Building #7417, and install three-phase power outlet in Building #7431 for ground operations of aircraft (the "Tenant Improvements"). Landlord shall comply with the provisions of Attachment 1 (General Terms and Conditions for All Work to be Performed by Landlord). Tenant will work with Landlord's contractor to relocate helicopters or other obstructions within the hangers to accommodate the installation of the Tenant Improvements. The Landlord or Landlord's contractor will provide no less than 48 hours notice prior to the scheduled work. Contractor's scheduled work will be permitted during business hours only Tuesday through Friday from 7:00AM to 5:30PM.

9. UTILITIES AND SERVICES; INSURANCE; TAXES.

- (a) Landlord shall provide, at Landlord's expense, the following utilities and services for the portion of Premises located within Building #7501: heating and airconditioning as conditions require, electricity, gas, water and sewer, janitorial service and interior trash removal. Landlord shall also provide janitorial service and interior trash removal to the office portion of Premises located within Building # 7431. Tenant shall be responsible for the procurement and payment of all utilities serving Building #7431 and Building #7417. Landlord shall also provide, or permit Tenant or a telecommunications company to install, telecommunications connections from the public right of way to the Premises. If Landlord or Landlord's agent interrupts, discontinues or causes the interruption or discontinuation of any of these utilities or services, then Tenant, in addition to any other remedy available under the law, shall be entitled to deduct from the Rent, or other payments otherwise due to Landlord under the terms of this Lease or any renewal or extension thereof, the per diem rental for each day that such portion of the Premises are rendered unsuitable for use due to Landlord's failure to provide such utility or service. For purposes of this provision, "unsuitable for use" shall mean that the Occupant in its reasonable discretion has directed its non-essential staff to leave the Building or not report to work: (1) due to health or safety issues relating to the interruption or discontinuation, or (2) because the interruption or discontinuation makes the Premises non-functional for warehouse use. If the interruption is caused by Landlord's failure to pay the provider of the utility or service, resulting in the termination of the utility or services by such provider, then Tenant may pay the necessary amount directly to the provider, in which event Tenant shall be entitled to deduct from the Rent, or other payments otherwise due to Landlord under the terms of this Lease or any renewal or extension thereof, the amount of such payment to the provider.
- (b) Landlord shall be responsible for all real estate taxes or charges in lieu of taxes, if any, applicable to the Premises.
- Landlord, at Landlord's expense, shall keep the Buildings insured against damage by fire, lightning, windstorm, tornado, earthquake, civil disturbance, flood, acts of nature and casualty loss, under a broad form extended coverage or similar property loss policy. The policy shall cover at least eighty percent (80%) of the replacement cost of the Premises and the Building. In addition, Landlord shall maintain broad form general commercial liability insurance sufficient to ensure reasonable financial responsibility in the event of liability for injury, loss or damage at the Premises, the common areas and facilities. Landlord, pursuant to State statutes, may self-insure under a funded program of self-insurance, which fund will respond in accordance with procedures established by law.

Tenant, at its sole expense, shall obtain and keep in force the following insurance: (a) Tort claims against persons; (b) Tort claims against the

Commonwealth; and (c) Medical incident. Landlord acknowledges that Tenant and Occupant are participating members of the Commonwealth's Risk Management Plan. Landlord agrees to accept insurance coverage provided pursuant to that Plan of the type set out above. Tenant agrees to maintain coverage as provided above, subject to any general modifications to the Commonwealth's Risk Management Plan that are binding on Tenant. Tenant will deliver certified copies of each policy or certificate of coverage to Landlord as soon as practicable after the placing of the required insurance, but not later than the date Tenant occupies all or any part of the Premises.

10. **CONDITION OF COMMON AREAS.** Landlord, at Landlord's sole expense, shall maintain in a good, clean and safe condition, all common areas and common facilities to be used by Tenant in common with other tenants and the public. If Landlord fails to maintain such areas or facilities in a good, clean and safe condition, or to make all repairs and/or improvements within a reasonable time after written notice, then Tenant may terminate this Lease

11. ACCESSIBILITY BY PERSONS WITH DISABILITIES.

- (a) In addition to any other requirements or covenants in this Lease, and at all times during the Term, option and any renewal terms, Landlord covenants that, as to the common areas and the parking facilities of the Buildings, it has fully complied, or will comply, to the fullest extent required by law, with:
 - the facilities accessibility laws, regulations and standards required by the "Americans With Disabilities Act of 1990", including Titles II and III thereof, and the regulations and standards promulgated thereunder, including the regulations promulgated by the U.S. Department of Justice (28 CFR Chapter 1, Part 36 and the Standards for Accessible Design Pt. 36, App. A-entitled "ADA Accessibility Guidelines for Buildings and Facilities"), as amended, and
 - the minimum requirements of the Virginia Uniform Statewide Building Code (VUSBC), Volume I-New Construction, as amended, pertaining to access by the physically handicapped and aged persons, including Chapter 11 ("Accessibility") of said VUSBC, which, in part, incorporates the regulations and referenced standards of the U.S. Department of Justice identified above.

To the extent the minimum requirements of the VUSBC are more restrictive than applicable federal requirements, the more restrictive of the two shall control. Landlord further covenants that, following the date of execution of this Lease, all alterations of common areas, including parking facilities, shall be undertaken by Landlord in such a manner that the ADA and the regulations and standards promulgated thereunder and the VUSBC are fully complied with to the extent required by law and as herein provided.

As of the effective date of this Lease, the parties hereto acknowledge that the office space within the Premises, do not require ADA and VUSBC compliance relating to accommodations for handicapped persons as outlined in the Uniform Federal Accessibility Standards, because the offices will be used by able-bodied military personnel and will not be open to the public, not used by the public during the conduct of normal business and not used by physically handicapped persons employed or seeking employment at such facilities.

If a change in law results in the office space within the Premises being subject to compliance with the accessibility standards of the ADA or the VUSBC (where applicable), or the Architectural Barriers Act or the Uniform Federal Accessibility Standards, and any of the office space does not meet the applicable accessibility standards, then Tenant may terminate this Lease with respect to the office space that does not meet the applicable accessibility standards, as well as any of the remaining office space which, in the opinion of Tenant, is required to be located in the immediate vicinity of the office space that does not meet the applicable accessibility standards, with three months' prior written notice if Landlord fails to render the office space compliant with applicable law. Tenant may grant an extension to the three-month period if Landlord is diligently proceeding to cure the non-compliance. In the event of a termination, Rent shall be reduced accordingly, based on an initial rent rate of \$4.92 psf for office space in Building 7501 and \$6.63psf for office space in Building 7431, adjusted for the rent escalation set out in Section 4(d).

12. DISCLOSURES; NON-WAIVER; APPROPRIATIONS.

- (a) The parties understand and acknowledge that Landlord, Tenant and Occupant are political subdivisions or agencies of the Commonwealth of Virginia and with respect to tort liability for acts or occurrences on or about the Premises, including product liability, they are either (i) constitutionally immune (or partially immune) from suit, judgment or liability, (ii) insured, or (iii) covered by a financial plan of risk management that is in the nature of self-insurance, all as determined by applicable laws, government policies and practices.
- (b) The parties understand and acknowledge that neither Landlord, Tenant nor Occupant has agreed to provide any indemnification or save harmless agreements running to any party. No provision, covenant or agreement contained in this Lease shall be deemed to be a waiver of the sovereign immunity of the Commonwealth of Virginia, Tenant, Occupant, or Landlord from tort or other liability. Under no circumstances shall Tenant or Occupant be liable for the conduct or actions of its invitees and visitors.

- (c) This Lease shall be governed by, and construed according to, the laws of the Commonwealth of Virginia. The parties choose the County of Chesterfield as the venue for any action instituted pursuant to the terms of this Lease.
- (d) Notwithstanding any other provision of this Lease, if Occupant shall cease to exist, and is not replaced by a successor entity with similar powers and purposes, or its powers and authority are limited so as to not permit the continued use of the Premises for its intended purpose and use, then Tenant shall have the right to terminate this Lease. In such event, Tenant will endeavor to give as much notice as is reasonably possible of the event triggering the termination and the anticipated date by which Occupant will completely vacate the Premises.
- (e) Agencies of the Commonwealth of Virginia cannot expend funds unless appropriated by the Virginia General Assembly and may not obligate a future session of the Virginia General Assembly. Therefore, notwithstanding any provision in this Lease to the contrary, if any session of the Virginia General Assembly fails to appropriate funds for the continuance of this Lease for the Occupant (or, if the funds from Occupant were derived from federal grant, federal funding for the continuation of this Lease is no longer available), this Lease and all obligations hereunder shall automatically terminate upon depletion of the then currently appropriated or allocated funds. It is further understood that the Rent paid by Tenant is derived from appropriations made to the Occupant, and in the event that the appropriation for the Occupant shall fail to provide appropriate funds for the continued occupancy by Occupant, then Tenant shall have the right to terminate the Lease.

13. REPORT OF OCCUPANCY.

- (a) Tenant shall, within fifteen (15) days after receipt of a written request by Landlord, submit to Landlord, or its designee, a written Report of Occupancy specifying: (i) the date of possession of the Premises by Tenant and the date on which the Lease terminates, (ii) whether this Lease is in full force and effect, (iii) the annual Rent, (iv) whether there have been any modifications to the Lease, and if there have been, a description of all such modifications, and, (v) whether Tenant has knowledge of any default hereunder on the part of Landlord, or if it does have such knowledge, a description of any such default.
- (b) The issuance of a report requested under subsection 13(a), or any errors or omissions in such report: (i) shall not operate as an estoppel against either the Commonwealth of Virginia or Tenant, (ii) shall not form or provide any basis for liability against the Commonwealth or Tenant, and (iii) shall not operate as a waiver of any rights or defenses that may be available to the Commonwealth or Tenant either at that time or in the future.

14. **CONDEMNATION.**

- (a) Landlord shall give immediate notice to Tenant of any discussions, offers, negotiations or proceedings with any party regarding condemnation or taking of any portion of the Premises.
- (b) If any portion of the Premises or any portion of the Buildings is taken by eminent domain or sold to the holder of such power pursuant to a threatened taking (exclusive of takings that, in the reasonable discretion of Tenant, do not materially adversely affect the use and enjoyment of the Premises by Tenant), this Lease shall terminate effective as of the date of the taking. The date of taking shall be the earlier of: (i) the date on which title vests in the condemning entity or (ii) the date on which the condemning entity takes possession. In the event of a taking, Tenant assigns to Landlord any rights that Tenant may have in and to any portion of a condemnation award, but such an assignment shall exclude any portion that may be due for, or attributed to, Tenant's fixtures, moving expenses and If the taking does not materially adversely affect the use and allowances. enjoyment of the Premises by Tenant, and so this Lease is not terminated, Rent shall be equitably adjusted to compensate Tenant for any adverse affect of the taking.
- 15. **SUBORDINATION, NON-DISTURBANCE, AND ATTORNMENT.** Upon request by Landlord, Tenant agrees to execute a Subordination, Attornment and Non-Disturbance Agreement that substantially conforms to Exhibit F, attached hereto. Any modification thereof shall be subject to approval by Tenant and the Office of the Attorney General of Virginia.

16. TERMINATION, RENEWAL, AND HOLDOVER.

- (a) Options. Tenant shall have three (3) options of five (5) years each to extend the term of this Lease ("First Option Term", "Second Option Term" and "Third Option Term") upon providing a minimum of three (3) months' written notice to Landlord prior to the expiration of the Initial Term, First Option Term or Second Option Term, as may be applicable. Rent during Option Terms shall be the rent applicable during the immediately preceding year, plus the annual escalation factor as set out in Section 4(d).
- (b) Termination. Unless otherwise terminated herein, Tenant may elect to terminate this Lease and vacate the Premises at the end of the Initial Term, any extension thereof, or any Option Term upon providing a minimum of three (3) months' written notice to Landlord prior to the expiration of the Initial Term or such Option Term as may be applicable, or at any time during any Renewal Term (as defined below) upon providing a minimum of three (3) months' prior written notice to Landlord.

Unless otherwise terminated herein, Landlord may elect to terminate this Lease upon the expiration of the Third Option Term or upon the expiration of any Renewal Term by providing a minimum of three (3) months' prior written notice to Tenant. Landlord may also elect to terminate this Lease upon the expiration of the then current term, if Tenant does not exercise its option rights at such times, by providing a minimum of three (3) months' prior written notice to Tenant.

- (c) Renewal. This Lease shall automatically renew and continue from year to year ("Renewal Term") on the same terms and conditions as existed immediately prior to the commencement of the Renewal Term, including any provision relating to escalation in Rent, if neither party has given a timely notice of termination as provided in (b) above.
- (d) <u>Holdover</u>. If Tenant continues to occupy the Premises after the termination date specified in a proper notice to terminate as provided in (b) above ("Holdover"), such Holdover shall be deemed a tenancy from month-to-month upon the same terms and conditions, including any rent escalation, as existed immediately prior to the commencement of the Holdover. Either party may terminate such holdover upon providing a minimum of four (4) months' prior written notice to the other party.
- (e) <u>Condition of Premises</u>. At the termination of this Lease, Tenant shall peaceably deliver the Premises in the same condition as originally accepted, except for damage by accident or fire, reasonable wear and tear, and subject to any provisions herein to make repairs and restoration.

17. NOTICES.

(a) All notices to Tenant required or permitted under this Lease shall be given in any manner set out in subsection (c) of this Section, to Tenant addressed to:

Division of Real Estate Services Attn: Director 1100 Bank Street, 3rd Floor Richmond, Virginia 23219

With a copy to:

Department of Military Affairs
Assistant Chief of Staff for Facilities Engineering and Management
Fort Pickett
Building 316
Blackstone, Virginia 23824

(b) All notices to Landlord required or permitted under this Lease shall be given in any manner set out in subsection (c) of this Section, to Landlord addressed to:

Chesterfield County
County Administrator
Lane B. Ramsey Administration Building
9901 Lori Road
Chesterfield, Virginia 23832

with a copy to:

Chesterfield County Airport Airport Manager 7511 Airfield Drive North Chesterfield, Virginia 23237

- (c) Wherever a notice is required under this Lease, notice shall be deemed to have been duly given if in writing and either: (i) personally served; (ii) delivered by prepaid nationally recognized overnight courier service; or (iii) forwarded by Registered or Certified mail, return receipt requested, postage prepaid.
- (d) Each such notice shall be deemed to have been given to or served upon the party to which addressed on the date the same is received by the party or delivery is refused. Each party to this Lease shall notify the other party of a new address at which to mail notices, which notice shall be given in the manner provided above, and unless and until such notice of new address is given, notices to a party hereto shall be sufficient if mailed to such party's address as specified in this Section.
- (e) Where notice is sent by an alternative method, the notice shall be effective if actually received by the party, or its appointed agent, to whom the notice is addressed. Nevertheless, notice to the Occupant shall not constitute notice to Tenant (unless expressly directed by Tenant pursuant to this Section).
- BINDING EFFECT; AMENDMENTS. The covenants, agreements, and rights contained in this Lease shall bind and inure to the respective personal representatives, successors and assigns of Landlord and Tenant. This Lease constitutes the entire, full and complete understanding and agreement between Landlord and Tenant, and all representations, statements, warranties, covenants, promises or agreements previously made or given by either party to the other are expressly merged into this Lease and shall be null, void and without legal effect. Neither party, nor any agent of either party, has any authority to alter, amend or modify any of the terms of this Lease, unless the amendment is in writing and executed by all parties to this Lease with the same formality as this Lease. This Lease shall not be effective or binding unless and until signed by all parties and Tenant obtains the recommendation of the Virginia Department of General

Services and the approval of the Governor of Virginia, or his designee, as required by § 2.2-1149 of the Code of Virginia (1950), as amended.

19. **DEFAULT.**

- (a) The termination of this Lease by Tenant pursuant to the provisions contained herein shall not be a default hereunder.
- (b) If either party shall breach any provision of this Lease, the non-breaching party shall give written notice thereof to the breaching party. The breaching party shall have thirty (30) days from the receipt of the notice to cure the breach and, if not so cured, the non-breaching party may, at its option, exercise such rights as may exist at law or in equity, except that Landlord shall not take possession of the Premises by any self-help remedy. The provisions of this subsection shall not be construed as imposing any additional obligations on the non-breaching party to the extent that this Lease permits the non-breaching party to take certain actions as a result of a breach by the other party.
- 20. **PRESUMPTIONS.** No presumption shall be created in favor of or against any of the parties to this Lease with respect to the interpretation of any term or provision of this Lease due to the fact that this Lease, or any part hereof, was prepared by or on behalf of one of the parties hereto, as may be evidenced by the disclosure on the face of this Deed of Lease made pursuant to Virginia Code § 17.1-223.
- 21. **ASSIGNMENT.** Tenant may not assign this Lease, or sublet the Premises, without the written consent of Landlord, which consent shall not be unreasonably withheld or delayed.
- 22. **HEADINGS.** The heading of the sections of this Lease are inserted for convenience only and do not alter or amend the provisions that follow such headings.
- 23. **ADDITIONAL PROVISIONS.** This Lease is subject to the following terms, conditions, modifications, additions and/or deletions provided in the following designated attachments, exhibits and riders, which are hereby incorporated into this Deed of Lease:

Attachments: (1) General Terms and Conditions for All Work to be Performed by Landlord

(2) Chesterfield County Airport Rules and Regulations

Exhibits: A Building #7431 Plan

B Building #7417 Plan

C Building #7501 Plan

D Site Map for VaARNG

E	Certificate of Lease Commencement
F	Subordination and Non-Disturbance Agreement
G	IT Network Improvements for Buildings #7501 and #7417
H	IT Network Improvements for Building #7431
I	Force Protection Requirements
J	Janitorial Specifications
K	Chesterfield Airport Snow and Ice Control Plan

IN WITNESS WHEREOF, the parties hereto have affixed their signatures and seals.

LANDLORD:

COUNTY OF CHESTERFIELD, VIRGINIA

a Virginia political subdivision

By:

Title: Chairman, Board of Supervisors

ounty Administrator

Approved as to form:

Senior Assistant County Attorney

COMMONWEALTH OF VIRGINIA COUNTY OF CHESTERFIELD, to wit:

The foregoing Deed of Lease was acknowledged before me this 22 ND day of MAY, 2013, by Dorothy A. Jaeckle, Chairman of the Board of Supervisors, on behalf of the Board of Supervisors for Chesterfield, Virginia.

My commission expires: DECEMBER 31, 2015

Registration No. 115527

Notary Public

COMMONWEALTH OF VIRGINIA COUNTY OF CHESTERFIELD, to wit:

The foregoing Deed of Lease was acknowledged before me this ZZND day of MAN, 2013, by James J. L. Stegmaier, County Administrator on behalf of the County of Chesterfield, Virginia.

My commission expires: DECEMBER 31, 2615

Registration No. 115527

Notary Public

By: Richaed Mudosker Title: Director
COMMONWEALTH OF VIRGINIA CITY OF RICHMOND, to wit:
The foregoing Deed of Lease was acknowledged before me this 24th day of 2013 by Richard 7. Shoust acting in his capacity as director of the Commonwealth of Virginia, Department of General Services, on behalf of the agency.
My commission expires: Action No. 326668 Registration No. 326668 Regi
RECOMMEND APPROVAL:
DEPARTMENT OF GENERAL SERVICES

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF GENERAL SERVICES

APPROVED BY THE GOVERNOR:

TENANT:

Pursuant to § 2.2-1149 of the Code of Virginia (1950), as amended, and as the official designee of the Governor of Virginia, as authorized and designated by Executive Order 88 (01) dated December 21, 2001, I hereby approve the acquisition of the Premises pursuant to this Deed of Lease for and on behalf of the Governor of Virginia.

Goz 4. 44 dos Drawy 6.27-13

Secretary of Administration

Date

Attachment 1

GENERAL TERMS AND CONDITIONS FOR ALL WORK TO BE PERFORMED BY LANDLORD

This Attachment shall apply to all work to be performed by Landlord for the benefit of Tenant at the Premises, pursuant to Section 8(b) of the Lease.

- (a) Landlord, shall, at Landlord's sole cost and expense, perform and complete all Tenant Improvements.
- (b) Landlord shall execute all contracts to perform the Tenant Improvements within two weeks of execution of the Lease. If Landlord fails to do so in a timely manner, Tenant shall have the right to terminate the Lease upon written notice to Landlord, provided that (i) Tenant did not consent in writing to the delay and (ii) the termination notice is sent prior to Landlord's execution and delivery of the contract(s).
- (c) Tenant Improvements: The Landlord shall complete the installation of all IT improvements as outlined in Exhibit G and Exhibit H, complete Force Protection Requirements as outlined on Exhibit I, and install three-phase power outlet in Building #7431 for ground operations of aircraft on or before August 1, 2013; and before October 1, 2013, shall install four (4) 120 volt single phase Solaronics Infrared Space Heaters in Building #7431 and Building #7417, and relocate and install proximity card readers security cameras and related fiber optic lines. Landlord shall complete the Tenant Improvements, in a professional and competent manner using good quality materials, on or before the aforementioned dates. If Landlord fails to substantially complete the Work and to so prepare the Premises for occupancy within sixty (60) days of such dates, except to the extent that delay was caused by Tenant Delay, Tenant shall have the right to terminate this Lease, provided that notice of termination is sent prior to substantial completion of the Premises. For each day of Tenant Delay, it shall be presumed that possession occurred one day earlier than in fact it occurred (but in any event not earlier than the Commencement Date specified in Section 3 of the Lease). Tenant Delay shall mean any delay caused by Tenant's interference with the completion of the Tenant Improvements. Landlord shall give Tenant written notice of any alleged Tenant Delay within five (5) business days of the happening of such event. "Substantial completion" and similar terms shall mean that all of the work is completed except for punch list items. Substantial completion is not, however, the triggering event for the payment of Rent. Rent begins to accrue (subject to any applicable abatements) as provided in Section (g) below.
- (d) Immediately upon the full execution of this Lease, Tenant shall have the right to enter the Premises for the installation of furniture, fixtures and equipment, as well as making any alterations or improvements that are not being made by Landlord. Tenant shall not occupy the Premises and shall not be liable for payment of Rent during this period. Tenant's agents will coordinate their activities with Landlord's contractor so as not to interfere with the work being performed by Landlord and Landlord can require the Tenant to cease

activities in order to complete Tenant Improvements, if Tenant's activities are interfering with the work being performed by Landlord. Notwithstanding the foregoing, Tenant shall not be obligated to accept the Premises, and the Initial Term shall not commence, if Tenant determines that the Tenant Improvements have not been performed in a professional and competent manner using good quality materials, until such time as the deficiencies are satisfactorily corrected. In no event will Tenant be required to take possession of the Premises until the Commencement Date set out in Section 3 of the Lease.

- (e) Without waiving any other rights under the Lease, this Attachment or its remedies under law, Tenant may accept the Premises and provide Landlord with a written punch list of minor items that need correction, but which will not prevent occupancy of the Premises by Tenant. Landlord agrees to correct all such punch list items within twenty-one (21) days after receipt of the written punch list. If the punch list items are not corrected within said twenty-one (21) day period, then Tenant may, but is not obligated to, correct all punch list items with its own resources and deduct the reasonable and verifiable costs of such corrections from Rent and any other amounts due under the Lease.
- (f) Acceptance of the Premises shall not be construed as Tenant's waiver of: (i) any defect or condition not reasonably known to Tenant prior to its occupancy of the Premises that may interfere with Tenant's use and enjoyment of the Premises, unless Landlord has given Tenant actual written notice thereof; or (ii) any obligation of Landlord to maintain and repair the Premises.
- (g) If the acceptance of the Premises by Tenant shall occur after the Commencement Date set out in Section 3 of the Lease, then the Commencement Date shall be modified to be: (i) the date of acceptance if the first day of a month; or (ii) the first day of the first month after acceptance if acceptance does not occur on the first day of a month. In any such event, the Termination Date shall be changed so that the length of the Initial Term remains unchanged. Rent shall commence to accrue on the date of acceptance, subject to any applicable rent abatement. If the Rent commences to accrue on a day other than the first day of a month, the Rent shall be prorated for the remainder of that month, with payment for such prorated period due with the first full month's payment of Rent.

Attachment 2

CHESTERFIELD COUNTY AIRPORT RULES AND REGULATIONS

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CHAPTER I

GENERAL PROVISIONS

Section 1 Purpose

These Airport Rules and Regulations hereinafter referred to as "Rules and Regulations," are adopted to maintain the economic viability of the Airport, and to establish administrative as well as operational safety rules and regulations for managing the use of the Chesterfield County Airport (FCI). The planned, controlled, and professionally engineered growth of the Airport, through FAA and DOAV AIP Grants, is identified as a primary objective to promote economic development and industry in Chesterfield County. Supplementary economic development and growth will result in additional employment opportunities and provide a superior Airport facility for the aviation community. These rules will hopefully enable the Airport to fulfill its role as a reliever to Richmond International Airport (RIC) in the Virginia Air Transportation System Plan. These Rules and Regulations apply to everyone operating on or using the Airport for business or personal recreation. However, it is not the intent of these Rules and Regulations to make provisions that are contrary to Federal, State and County law or regulations regarding Airport Sponsor obligations or Airport operations.

Section 2 Definitions

The following acronyms, words and terms shall have the meaning indicated below, unless the context clearly requires otherwise:

a. "Aeronautical Activities" means any activity which involves, makes possible, or is required for the operation of aircraft, or which contributes to or is required for

the safety of such operations. Aeronautical Activities include, but are not limited to: air taxi and charter operations, parachute and ultra-light aircraft activities, pilot training, aircraft rental, aircraft hangar leasing, sightseeing, aerial photography, crop dusting, skydiving, aerial advertising and surveying, air carrier operations, aircraft sales and services, sale of aviation petroleum products, repair and maintenance of aircraft, sale of aircraft parts, and any other activities which directly relate to the operation of aircraft. In contrast, examples which are not "Aeronautical Activities" include: ground transportation (taxis, car rentals, limousine service, etc.), restaurants, in-flight food catering, and auto parking lots.

- b. "AGL" means an altitude expressed in feet measured above ground level.
- c. "Aircraft Owner" is a person or entity with an ownership interest in an aircraft.
- d. <u>"AIM"</u> means Aeronautical Information Manual which is publication containing basic flight information and air traffic control procedures designed primarily for a pilot's instructional manual in the National Airspace System of the United States.
- e. "<u>Airport Sponsor</u>" means a public agency or tax-supported organization such as an airport authority or local government that is authorized to own and operate the airport, to obtain property interests, to obtain funds, and to be able to meet all applicable requirements of current laws and regulations both legally and financially. Chesterfield County is the sponsor for Chesterfield County Airport.
- f. "Airport" means the Chesterfield County Airport (FCI) and all of the property, buildings, facilities and improvements within the property boundaries of such airport as it now exists on the Airport Layout Plan or as it may hereafter be extended, enlarged or modified. It includes any appurtenant areas used, or intended to be used, for airport buildings or other airport facilities or rights-of-way, together with all airport buildings and facilities located thereon. It also includes any heliport.
- g. "Airport Manager" means the designated person appointed by the County to manage the Airport, or his/her designee.
- h. "Airport Operation Area" (AOA) means the area of the airport used or intended to be used for landing, take off or surface maneuvering of aircraft, including the associated hangars and navigational and communication facilities.
- i. "Airside" means that part of the airport directly involved in the arrival and departure of aircraft on areas intended for aircraft movement. It includes Chesterfield County Airport's runways, taxiways the apron and ramp areas.
- j. "Airworthy Aircraft" means an aircraft that can fly legally without the requirement of an FAA issued ferry permit.
- k. "A&P "means Airframe and Power Plant Mechanic.

- 1. "ARFF" Aircraft Rescue and Fire Fighting
- m. "Based Aircraft" an aircraft permanently stationed at an airport by agreement between the aircraft owner and the Airport management for at least six (6) months.
- "Bona-fide Full Time Employee" means a person who is on the payroll of the n. Aircraft Owner who must comply with all applicable labor laws including such things as Workers Compensation if required, Social Security, etc., for that employee. For the purposes of these Rules and Regulations he/she must be a direct employee (not an independent contractor) of the Tenant, who is required to be an FAA certified mechanic holding a commercial operating certificate or is an approved technical specialist and who has an established record of employment. as a full time employee, with a primary position (75% or more of time paid) as an aircraft Mechanic. Establishment of employment on the normal payroll of the Tenant/Employer for the specific function of aircraft maintenance or repair will require the Aircraft Owner to provide a Department of the Treasury, Internal Revenue Service Wage and Tax Statement (Form W-2 Copy D), or for a new employee a Federal Insurance Contribution Act Employers Quarterly Payroll Tax Return Form 941, a copy of the Internal Revenue Service Employees Withholding Allowance Certificate Form W-4, and a copy of the Tenant's financial record (employee pay slip or stub) showing the hours the employ worked. Said employee cannot be a shared employee between multiple Aircraft Owners.
- o. "Commercial Purposes" means for public hire and compensation.
- p. "County" means the County of Chesterfield, Virginia, and it's Board of Supervisors, designated officials, officers, employees or representatives.
- q. "Engine Run-up" means a pre-takeoff check of the performance of the engine(s) at greater than idle thrust, as well as other aircraft systems, as recommended by the manufacturer. Further, aircraft engines are "run-up" for other purposes in the course of maintenance activities.
- r. "DOAV" means the Virginia Department of Aviation.
- s. "FAA" means the Federal Aviation Administration.
- t. "<u>FMV</u>" Fair Market Value means the highest price estimated in terms of money that a property will bring if exposed for sale in the open market.
- u. "FAR" means Federal Aviation Regulations. (These are found in Title 14 Code of Federal Regulations (CFR).
- v. "FBO" means any Fixed Based Operator(s) duly licensed and authorized by

- written agreement with the County to operate at the Airport, providing contractual aviation services to the Airport Sponsor under strict compliance with such agreement and pursuant to these Rules and Regulations.
- w. "Flying Club" means an organization established for the personal transportation of its members, and to promote flying for pleasure, and to develop skills in aeronautics, including pilot age, navigation, and awareness and appreciation of aviation requirements and techniques.
- x. "Full Service FBO" means a Fixed Base Operator who provides retail aviation fuel and oil sales and aircraft maintenance as duly licensed and authorized by written agreement with the County to operate at the Airport under strict compliance with such agreement and pursuant to these Rules and Regulations.
- y. "FSDO" means Flight Standards District Office.
- z. "GA" means General Aviation.
- aa. "Hazardous Materials" means any chemical. Substance, object, condition, material, waste, or controlled substance which is or may be hazardous to human health or safety or to the environment, due to its radioactivity, ignitability, corrosiveness, explosiveness, flammability, reactivity, toxicity, infectiousness, or other harmful or potentially harmful properties or effects, which is regulated in any manner by any Federal, State, or Local government agency or entity, or under any Federal, State, or Local law, regulation, ordinance, rule, policy or procedure due to such properties or effects.
- bb. "Heavy Twin" means a multi-engine aircraft with a gross weight exceeding 12,500 pounds.
- cc. "<u>Independent Operator</u>" is a commercial operator offering a single aeronautical service but without an established place of business on the Airport. Independent Operators are allowed on the Airport by permit only.
- dd. "<u>IFR</u>" means Instrument Flight Rules which govern the procedures for conducting instrument flight.
- ee. "<u>Individual Users</u>" includes individual Pilots, Aircraft Owners, Tie-down and T-Hangar renters, transient users, and other individual users of the Airport.
- ff. "Land side" means all buildings and surfaces used by surface vehicular and pedestrian traffic on the Airport.
- gg. "Landlord" means Chesterfield County.
- hh. "Light Twin" means a multi-engine aircraft with a gross weight of less than

- 12,500 pounds.
- ii. "Local Operation" is any operation performed by an aircraft that operates in the local traffic pattern or within sight of the tower or Airport, or is known to be departing for, or arriving from, flight training in local airspace areas located within a twenty (20) mile radius of the control tower or Airport.
- jj. "Long Term Lease" is a lease with a term of five (5) years or more.
- kk. "MSL" means an altitude expressed in feet measured from Mean Sea Level.
- Il. "Minimum Standards" means the standards which are established by the County as the minimum requirements to be met as a condition for the right to conduct an aeronautical activity on the airport.
- mm. "NFPA" means the National Fire Protection Association.
- nn. "NTSB" means National Transportation Safety Board.
- oo. "NOTAM" means a "Notice to Airmen" published by the FAA.
- pp. "Person" means any person traveling on foot; or utilizing any other mode of transportation, other than a registered aircraft.
- qq. "Proprietary Exclusive Right Aeronautical Activity" means an activity, as prescribed by FAA Advisory Circular 150/5190-2A (Exclusive Rights at Airports), in which the County may engage while denying others the right to engage in the same activity.
- rr. "Public Airport" is an airport used or intended to be used for purposes, that is under the control of a public agency and that is used or intended to be used for the landing, taking off, or surface maneuvering of aircraft used for public purposes. Chesterfield County Airport is a Public Airport.
- ss. "Scheduled Maintenance" consists of all the individual maintenance tasks performed according to schedule as required by the aircraft maintenance manual or by regulation.
- tt. "Self-fueling" is the fueling of an aircraft by the Aircraft Owner or the Owner's employee. Self-fueling means using fuel obtained by the Aircraft Owner from the source of his/her preference.
- uu. "<u>Self-service</u>" includes activities such as adjusting, repairing, cleaning, and otherwise providing service to an aircraft, provided the service is performed by the Aircraft Owner or his/her employees with resources supplied by the Aircraft Owner.

- vv. "Self-maintenance Area" is an area on the North Ramp designated for Aircraft Owners, their Bona-Fide Employees, or a second party permitted under Chapter III, Unscheduled Maintenance, to perform aircraft repairs or maintenance that cannot otherwise perform that maintenance in a leased hangar permitted for that purpose. (See APPENDIX "A," for location).
- ww. "Shall" The word "shall" is always mandatory.
- xx. "SASO" or Specialized Aviation Service Operations or "Special Fixed Base Operator" is aeronautical businesses that offer a single or limited service.
- yy. "Tenant" is a person or organization occupying space or property on the County Airport.
- "T-Hangar" is a type of enclosed structure that when viewed from above (in plain view) resembles the letter "T." Usually constructed in groups to take advantage of common walls they provide protective storage for many aircraft in one common area.
- aaa. "<u>Unicom</u>" means a nongovernmental communication facility which may provide airport information at certain airports. Locations and frequencies are shown on aeronautical charts and publications.
- bbb. "<u>Unscheduled Maintenance</u>" is maintenance performed on an aircraft that was not planned and arose as a result of problems discovered in the course of normal operations.
- ccc. "VFR" means Visual Flight Rules,
- ddd. "<u>VSFPC</u>" means Virginia State Fire Protection Codes.
- eee. "WADO" means the FAA Washington Airports District Office. These offices are outlying units or extensions of the FAA's Office or airports and are usually collocated with regional offices.

Section 3 Airport Manager

The Airport Manager is authorized to take all actions necessary to regulate, benefit and protect the public who use the Airport, to regulate aircraft and vehicular traffic at the Airport and to oversee all Airport operations consistent with these Rules and Regulations under the authority of the County Board of Supervisors or the County Administrator, and the laws of the Commonwealth of Virginia. The Airport Manager is the County's representative at the Airport and is authorized to take all reasonable actions necessary to oversee all Airport Operations consistent with these Rules and Regulations.

Section 4 Rules and Regulations

- a. All aeronautical activities at the Airport, all operation and flying of aircraft at the Airport, and all business and other activities at the Airport shall be conducted in conformity with these Rules and Regulations, and all pertinent statutes, ordinances, laws, rules, regulations, orders and rulings of the FAA, the Commonwealth of Virginia, and the NFPA and VSFPC, which are made a part of these Rules and Regulations by this reference.
- b. In the event of any conflict between these Rules and Regulations and any statute, ordinance, law, rule, regulation, order or ruling of any governmental entity cited in this section and exercising the same or similar jurisdiction, the latter shall prevail.

Section 5 Reporting Requirements

- a. In the event of an aircraft accident, the Pilot-in-Command shall immediately notify the Airport Manager, or in his absence or incapacitation, the Full Service FBO or his representative, that an accident has occurred. Subject to governmental investigations or inspections of the wrecked or damaged aircraft, the Pilot-in-Command, the owner, or the owner's agent, shall take immediate action to move the aircraft from any and all aircraft movement areas to a place designated by the Airport Manager or Full Service FBO. If the aircraft is not moved for any reason, the Airport Manager, Full Service FBO or his representative shall cause the removal of such aircraft at the sole expense of the Aircraft Owner.
- b. In order to promote and maintain safety at the Airport, any Pilot-in-Command, pilot or FBO is required to promptly report to the Airport Manager or FBO any bodily injury requiring medical attention, or any damage to property at the Airport, or any other accident, incident, occurrence or unsafe practice relating to any aircraft which any one of the above owns, leases, flies, or any Aeronautical Activity in which any are involved. A report form is attached as APPENDIX "D." If the accident or incident report is required under NTSB, Part 830, a copy of that information may be submitted to the Airport Manager in lieu of the form in APPENDIX "D."
- c. The following are examples of accidents, incidents, unsafe practices or occurrences that shall be reported to the Airport Manager utilizing APPENDIX "D":
 - (1) Aircraft landing off the runway without prior permission of the Airport Manager.
 - (2) Aircraft breaking runway or taxiway lights.
- d. The report shall include the following information:

- (1) Location, date and time of incident and the identity of each person and aircraft involved;
- (2) Nature of any injuries suffered by any person as a result of the incident and the name and address of any Person injured;
- (3) Nature and extent of any property damage occurring as a result of the incident and the name and address of the owner of the damaged property; and
- (4) A narrative explaining why the incident occurred.

Section 6 Special Events

No special event, including but not limited to air shows, air races, fly-ins, static displays or other events requiring the general use of the Airport, other than normal or routine airport traffic, shall be held unless formal written approval for the event has been granted by the Airport Manager. Said approval shall specify the areas of the Airport authorized for such special use, dates and such other terms and conditions as the County may require. The Airport Manager will approve each Special Event based on its merit and in consideration of safety, security and the County's ability to support the special event. In doing so, the Airport Manager will coordinate closely with the County's Risk Management, Public Affairs Office and airport operators who may be involved in supporting the Special Event. The FBO will be included as "additionally insured" by the events sponsor when insurance is required. A sixty (60) day notice is desired for any such event to allow airport staff adequate time to address any concerns. If less time is given to staff the event could be delay or denied.

Section 7 Public Use

The Airport shall be open for public use twenty-four (24) hours per day, three-hundred-sixty-five (365) days per year, subject to restrictions due to weather, the conditions of the Airport Operations Area, and special events and like clauses, as may be determined by the County. The Airport is provided by the County for the use, benefit, and enjoyment of the public in general.

Section 8 Revenue Producing Commercial Activity

No person shall utilize the Airport or any portion thereof for revenue producing commercial activities or to solicit business or funds for any commercial activity except as permitted under the terms of a lease specifically authorizing the activity, or if such activity does not require a lease, by written permission of the Airport Manager. Failure to fully comply with Chesterfield County's Minimum Standards for FBO's Providing Aeronautical Services, as adopted by the Board of Supervisors, shall be the basis for disallowing or revocation of any right to utilize the airport.

Section 9 Common-Use Areas

Common-use areas include all runways for landing and take-off, taxiways, terminal and north apron/ramps, Airport lighting, all apparatus or equipment for disseminating weather and wind information, for radio or other electrical communication and any other structure, equipment or mechanism having a similar purpose for guiding or controlling flight in the air or the landing and take-off of aircraft. All parallel and connector taxiways shall be common-use areas. All apron/ramp taxiways through leased areas shall be considered common-use areas available for use, in common, by all persons flying or operating aircraft on the Airport and shall be kept clear and available for aircraft traffic. T-Hangar taxi lanes are also considered common-use areas. No FBO, SASO or other person shall use any common-use areas for the parking or storing of aircraft, the repair, servicing or fueling of aircraft, or for any other purpose other than the flying and operation of aircraft without the prior consent of the Airport Manager. Full Service FBO's are permitted to fuel aircraft in the T-Hangar taxi lanes. Common-use area designations may be changed by the County at any time.

Section 10 Advertising and Signs

No signs or other advertising shall be placed or constructed upon the Airport, or any building, or structure, or improvement thereon without having first obtained written approval from the County. The County may refuse permission for such signs if it determines that such signs are undesirable, do not meet County sign standards, unnecessary or may create a safety hazard.

Section 11 Acceptance of Rules by Use

The use of the Airport shall constitute an acceptance by the user of these Rules and Regulations and shall create an obligation on the part of the user to obey these Rules and Regulations.

Section 12 Rules and Regulations Made Available

All persons permitted to do business on the Airport and all Tenants at the Airport shall keep a current copy of these Rules and Regulations in their office, place of business or lease hold, and shall make the copy available upon request. (Readily accessible electronic copies are permitted).

Section 13 Pedestrians

All pedestrians at the Airport shall remain behind the fenced operations areas unless arriving or departing in an aircraft, or unless escorted by a County airport employee, an FBO employee, a flight crew member, or authorized representative. Any pedestrian wishing to enter the area within the runway and/or Alpha taxiway safety area must complete an Acknowledgment of Risk and Liability Agreement for the runway & Alpha taxiway safety area (APPENDIX "C") form approved by the County Attorney.

Section 14 Scheduled Maintenance

An Aircraft Owner shall not contract with a second party, such as an aircraft maintenance company or contractor, to perform "scheduled" maintenance on their aircraft at the Airport unless said company or contractor is recognized by the County as an on-airport FBO as defined in these Rules and Regulations and the Airport Minimum Standards.

CHAPTER II

T-HANGAR LEASING AND USE

Section 1 General

- a. This chapter of the Airport Rules and Regulations applies to all T-Hangars owned and offered for lease by the County of Chesterfield. A copy of these Airport Rules and Regulations shall be attached to and a part of the T-Hangar Lease.
- b. The Aircraft Owner/T-Hangar Tenant covenants and agrees that he will protect the rights, safety and property of other owners/tenants, operators and tenants by a strict adherence to these Airport Rules and Regulations. Aircraft Owner/T-Hangar Tenants further agrees to abide by all rules and regulations of the Federal Aviation Administration, Commonwealth of Virginia and the County of Chesterfield. Violation of any of the Airport Rules and Regulations shall constitute a violation of the Lease Agreement, and upon proof thereof being submitted to the Airport Manager by any person, shall be considered a default under the Aircraft Owner's Lease Agreement.
- c. Chesterfield County as Airport Sponsor and T-Hangar Landlord, acting through the Airport Manager, reserves the right to amend these Airport Rules and Regulations as the County deems necessary, in use of due and reasonable discretion, and in the interest of safety. The lease and use of a T-Hangar shall constitute and acceptance of the Rules, and shall create an obligation on the part of the Tenant to abide by these Rules.
- d. It is the intent of the County of Chesterfield that those Aircraft Owners leasing a T-Hangar at the airport will use the T-Hangar for Aeronautical Activities only. With the exception of certain permitted special maintenance uses, T-Hangars are primarily for storage of their Airworthy Aircraft (see definitions); and to that end, the specific provisions in Section 2 of this chapter further define the appropriate use of Chesterfield County Airport T-Hangars.

Section 2 Specific Provisions

a. T-Hangar Lease: Prior to occupancy of a T-Hangar, an Aircraft Owner must have signed and been issued a T-Hangar Lease by the Airport Manager. Unless aircraft maintenance is specifically allowed under one of the Special Uses identified in Section 6 of this Chapter or for Unscheduled Maintenance listed in Chapter III, Section 1, the T-Hangar Lease is an agreement that allows for aircraft storage and owner preventative maintenance performed by the Aircraft Owner. [Preventative maintenance shall include any activities covered under Part 43.3 APPENDIX A (C) of the Federal Aviation Regulations, as amended from time to time].

- b. A T-Hangar Lease may be offered to an Aircraft Owner only. An ownership interest in an aircraft must be demonstrated by providing one of the following documents to the Airport Manager:
 - (1) A current copy of the FAA Certificate of Aircraft Registration listing the person or entity as the registered owner of the aircraft.
 - (2) A valid Aircraft Lease naming the person or entity as the Aircraft Tenant.
 - Occumentation demonstrating that the person or entity has an equitable ownership interest in the aircraft sufficient to give that person or entity possession and control of the aircraft. Aircraft Owner status must be demonstrated to the satisfaction of the Airport Manager prior to execution of a T-Hangar Lease or substitution of aircraft. Failure to submit satisfactory documentation to demonstrate Aircraft Ownerships as defined herein shall, in the sole discretion of the Airport Manager, result in either non-issuance of a lease or termination of an existing lease upon written notice.
- Identification of the Aircraft Owner: An Aircraft Owner may be offered a T-Hangar Lease if they are a natural person, corporation, an LLC, or a partnership. If a prospective tenant is other than a natural person, prior to execution of a lease, the prospective Aircraft Owner, hereafter also referred to as "T-Hangar Tenant" or "Tenant" as appropriate, must provide the Airport Manager with a current copy of the prospective T-Hanger Tenant's articles of incorporation, bylaws, partnership agreement or other equivalent documentation identifying, to the satisfaction of the Airport Manager, the Aircraft Owner's individual participants. In the event a change to the ownership structure occurs during the term of a T-Hangar Lease, no later than thirty (30) days after such change, the Tenant shall notify the Airport Manager of any change in the status of the Aircraft Owner.
- d. Aircraft Airworthiness: The aircraft designated as the Owner's aircraft is the only aircraft that may be stored by the Owner in the T-Hangar. With the exception of Amateur Built Aircraft Final Assembly and maintenance or repairs allowed by permit that temporarily render an aircraft un-airworthy, the stored aircraft must be airworthy. To be considered airworthy, an Aircraft Owner/T-Hangar Tenant must produce current records documenting successful completion of a required annual airworthiness condition inspection conducted by an inspector certified by the FAA. The Airport Manager may, at any time, require an Aircraft Owner/T-Hangar Tenant to demonstrate that the stored aircraft is airworthy. An Aircraft Owner/T-Hangar Tenant must produce the required documentation within thirty

(30) days of the date that the Airport Manager requests such demonstration. Storage of an aircraft in a T-Hangar that does not comply with the airworthy standard, or the Tenant's failure to submit appropriate documentation when requested by the Airport Manager may, in the sole discretion of the Airport Manager, result in termination of the T-Hangar Lease. Aircraft that are not airworthy shall be removed from the T-Hangar as provided in these Rules and Regulations and the Lease terminated.

Section 3 Allocation, Extension and Relocation

- a. Allocation: T-Hangars will be allocated according to the T-Hangar Waiting List Policy. Separate lists will be established for each size hangar and for those "End T-Hangars" with more available space. An Aircraft Owner may select any available T-Hangar for use in accordance with the T-Hangar Waiting List Policy, O.D. 11-1 (available in the Airport Office), and these Rules and Regulations. Aircraft Owner listing will require a deposit equal to one month rent. The T-Hangar Waiting List Policy shall govern reassignment, if necessary, of T-Hangars to accommodate Aircraft Owners with disabilities or special needs.
- b. Extension: If a T-Hangar Tenant no longer owns an airplane, such entity may be permitted to continue to rent the space for no longer than sixty (60) days without owning an airplane by still complying with the other requirements of the Lease Agreement. Such a request must be received in writing, and must be received by the Airport Manager within five (5) days from the date that Tenant no longer owns the airplane registered under the T-Hangar Lease Agreement. The Airport Manager, in his discretion, may approve a request for a further extension beyond sixty (60) days for the purpose of taking possession of another airplane. However, such a request must be in writing, and must be received by the Airport Manager before the end of original sixty (60) day extension period. A violation of this section constitutes an immediate default of the Lease Agreement.
- c. Relocation: For the purpose of efficient use of available hangar the Landlord shall have the right to relocate a Tenant's aircraft at the Landlord's expense to other locations in the T-Hangar Complex. The Landlord shall give the Tenant at least thirty (30) days notice for such relocations unless both parties agree to a shorter term. Relocations shall be by written addendum to the existing T-Hanger Lease. If a new T-Hangar location cannot be agreed upon, the Landlord, represented by the Airport Manager, shall have the right to terminate the lease with thirty (30) days notice.
- d. Only aircraft which will not fit in a regular T-Hangar Unit will be allowed to be housed in the Bravo Hangar Units, unless otherwise approved by the Airport Manager.

Section 4 Use Requirements

a. Fire Safety: Tenant shall, at all times, comply with applicable provisions of the Uniform Fire Code and applicable standards of the National Fire Protection

Association (NFPA) and the Virginia State Fire Prevention Code (VSFPC); including, but not limited to, the following:

- (1) Equip and maintain T-Hangars with metal drip pans under the engines of all aircraft stored or parked in the T-Hangar.
- (2) Combustible materials stored in the T-Hangar shall be stored in an approved locations and containers only.
- (3) Equip and maintain T-Hangars with metal, metal-lined or other approved containers equipped with tight-fitting covers for oily rags and similar materials as required by Virginia State Fire Prevention Code (VSFPC).
- (4) Persons who intend to use flammable liquids on the airport and/or fuel their own aircraft shall do so in accordance with the requirements of the National Fire protection Association (NFPA) 407 Standard for Aircraft Fuel Servicing, and FAA Advisory Circular 150/5230-4 (with change). The following shall apply except where applicable codes differ, in which case the latter shall prevail:
 - (a) Floor shall be kept clean and free of oil. The use of flammable solvents for cleaning floors is prohibited.
 - (b) No person shall use flammable liquids in the cleaning of aircraft, aircraft engines, propellers, appliances, or for any other purpose. No rags soiled with flammable substances shall be kept or stored in any T-Hangar on the Airport, other than oily waste rags in an approved, listed oily waste safety can metal receptacle with a self closing cover.
 - (c) All flammable liquids, flammable and liquid compounds or mixtures, shall be conspicuously marked or labeled in easily legible type, which is in contrast by typography, layout or color with any other printed matter on the label.
 - (d) Combustible materials or other hazardous materials (as the labels intended use or MSDS sheet) shall not be stored in an aircraft T-Hangar except in approved location and in approved listed safety cans. The maximum number of gallons of Class I flammable liquids that are allowed in a safety can is two (2) gallons, not including fuel and oil stored in the aircraft's fuel tank and engine, the maximum allowable amount stored in containers and portable tanks is two gallons.
 - (e) Containers, tanks, equipment and apparatus used or intended to be used for the storage, handling, or use of flammable or combustible

- liquids shall be of an approved listed type in accordance with NFPA 30.
- (f) Tenant agrees not to store any flammables, except fuel stored in the aircraft, unless stored in a steel cabinet with self-closing doors designed exclusively for the storage of flammables meeting the requirements of Chapter 4 of NFPA 30 for the storage of flammables and approved by the Landlord.
- (5) Dispensing device for flammable or combustible liquids shall be of an approved listed type. Such an approved type will be a safety can as defined above and shall only be dispensed outside the hangar.
- (6) No flammable or combustible liquid shall be dispensed into or removed from the fuel system of an airplane within any T-Hangar. (No refueling/de-fueling operations).
- (7) A person shall not use any heating, lighting or cooking appliance, which uses Class I flammable liquids unless it is located in areas designated by the Airport Manager.
- (8) An open flame, flame-producing device or other source of ignition shall not be permitted in any T-Hangar, except in approved locations outlined in NFPA 409 and includes space heaters of any type.
- (9) Use of extension cords inside the T-Hangar shall strictly comply with all applicable fire and electrical code requirements (VSFPC).
- (10) A person shall not smoke or produce an open flame within fifty (50) feet of any point where fuel is being transferred (NFPA 407). Electrical motor-driven devises shall not be connected to or disconnected from any aircraft at any time fueling operations are in progress on such aircraft (NFPA 407).
- (11) As with all County Facilities, smoking is not permitted in aircraft T-Hangars in accordance with VSFPC. Smoking or carrying of a lighted pipe, cigar, cigarette or any smoking paraphernalia shall be prohibited on servicing ramps located within fifty (50) feet of any aircraft fueling operation or fueling equipment or parked aircraft (NFPA 407).
- (12) The engines of aircraft shall not be run in any aircraft T-Hangar.
- b. Snow Removal: T-Hangar Tenants and Owners are responsible for snow removal up to five (5) feet from the T-Hangar door. (Landlord snow removal in the T-Hangar complex and in the vicinity of individual T-Hangars shall be

- accomplished only after the runway, taxiways and the apron have been cleared).
- c. Spills and Storm Water Pollution Prevention and Reporting are required as follows:
- d. Tenants shall immediately clean-up spills inside and around the T-Hangar. A spill clean-up kit consisting of absorbent material, a waste container marked for disposal of oil solids, used oil and solvents is located at the Small Disposal Site in the T-Hangar Complex at a location designated by the Airport Manager and will be utilized for both spill clean-up and disposal of waste material.
 - (1) Fuel spills that are hazardous to persons or property, continuous in nature, in excess of five (5) gallons, or are over ten (10) feet in any dimension shall be reported to the EMERGENCY COMMUNICATION CENTER VIA 911 IMMEDIATELY and then to the Airport Manager or his designated representative.
 - (3) Tenant shall dispose of all waste oil, used solvents and absorbent materials at the Small Disposal site adjacent to the Airport Maintenance Facility, designated for such purposes in drums provided for waste oil and solvents. Discharge or cause to discharge of any material into an airport storm drain system or watercourse or on any airport surface or disposal of oil in drains, garbage cans, on the ground, or in any unapproved container are against environmental regulations and shall result in the immediate termination of the Lease.
 - (4) Storage of Hazardous Materials, except those specifically permitted by these T-Hangar Rules and Regulations is prohibited (See definitions).

Section 5 Prohibited Storage and Uses

- a. Storage of items and materials:
 - (1) T-Hangars are for storage of Airworthy Aircraft. With the exception of permitted maintenance, allowed under one of the Special Uses identified in Section 6 of this Chapter, or for Unscheduled Maintenance listed in Chapter III, Section 1, they are not to be used as workshops, repair shops, or maintenance shops for other commercial or personal activities. However, Tenant may store parts and accessories for the Tenant's Aircraft.
 - Only the Tenant's Aircraft identified by Lease Agreement will be allowed to be stored in the Tenant's assigned T-Hangar. Temporary storage of Aircraft other than the Tenant's Aircraft may be authorized only on a case by case basis by written request and written approval of the Airport Manager.

- (3) Compressed <u>flammable</u> gas cylinders may not be stored in the T-Hangars. Other stored gas cylinders must be secured from rolling.
- (4) Storage of items not directly related to the allowable maintenance and operation of the Tenant's Aircraft.
- (5) Signs, emblems, or advertising shall not be placed or erected on the T-Hangar.
- (6) Parking or storage of motor homes, campers, trailers, boats, or other items of personal property in or around the T-Hangar except vehicles permitted to park as described in Chapter V of these T-Hangar Rules.
- (7) Installation or use of any appliances or equipment such as refrigerators, space heaters or air conditioners without written approval.

b. Activities in and around the T-Hangar:

- (1) Aircraft repairs, assembly, alterations, overhauls and maintenance, except as otherwise allowed under one of the Special Uses identified in Section 6 of this Chapter or for Unscheduled Maintenance listed in Chapter III, Section 1, is prohibited.
- (2) No airplane or vehicle of any type shall be parked on the T-Hangar apron overnight, or at any time in a way that constitutes a hazard to taxiing airplanes.
- (3) An Aircraft Owner shall not contract with a second party, such as an aircraft maintenance company or contractor, to perform "scheduled" maintenance on their aircraft at the Airport unless said company or contractor is recognized by the County as an authorized maintenance FBO or has obtained a permit under Chapter III, Unscheduled Aircraft Maintenance.
- (4) No person shall allow a person who is not an employee onto the Airport to perform maintenance on their owned or operated aircraft without prior written permission from the Airport Manager.
- (5) Hazardous activities such as, but not limited to, welding, painting, priming, doping, gluing, fiber glassing, media blasting, open flame cutting, open fuel lines, or the application of hazardous substances are expressly prohibited anywhere in the T-Hangars.
- Unless specifically permitted in the T-Hangars under Chapter II, Section
 Hangar Special Uses or Chapter II Unscheduled Aircraft Maintenance,

repairs to aircraft or engines shall be made only in the Self Maintenance area designated for this purpose by the County, and not on any part of the landing area, taxiways, ramps or fueling service areas. (See APPENDIX "A," Airport Layout).

- (7) Tenant shall be responsible for the conduct and actions of any of Tenant's visitors to the T-Hangars, and will not permit such visitors to solicit business from other tenants at the Airport.
- (8) Rent, lease, sublet, transfer or assignment of the Aircraft Owner/Tenant's T-Hangar or any portion thereof is prohibited.
- (9) Use of the T-Hangar for any commercial or personal purpose defined as service for compensation of any kind without prior permission from the Airport Manager is prohibited.
- (10) Aircraft and equipment washing in or around the T-Hangar is also prohibited. (All based aircraft shall utilize public aircraft wash rack facilities in accordance with applicable rules.)
- (11) Sleeping in the T-Hangars is prohibited. T-Hangars, including those modified to include offices, are not to be used as sleeping quarters.
- (12) No person, including Aircraft Owners, shall enter any part of the Airport, including the T-Hangar Complex and individual T-Hangars, with a domestic animal unless such animal is restrained by a leash or is confined in such a manner as to be completely under control.
- (13) Vehicular maintenance, including, but not limited to, wash, wax, clean or repair vehicles in or around the T-Hangar is prohibited.
- (14) No person shall impede parking, ingress or egress for aircraft, vehicles, or pedestrians using the Airport or other T-Hangars.
- (15) No person shall modify existing T-Hangar wiring or install additional outlets or fixtures without prior approval of the Airport Manager and the issuance of a Building Permit if required.
- (16) No person shall paint, remove, deface, modify, bend, drill, cut or otherwise alter or modify any part of the T-Hangar, including roof, doors, walls, ceiling and floors without prior approval of the Airport Manager and a Building Permit if required.
- c. Alterations, Improvements and Maintenance of T-Hangars:
 - (1) Tenants shall be responsible for any building or electrical permits required for intended alterations, additions or modifications. All alterations,

additions and modifications made to the T-Hangar without the consent of the Airport Manager shall be immediately removed at the sole cost of the Tenant. Approved alterations, additions or modifications shall be recorded in the T-Hangar Lease Agreement. Upon the expiration or termination of the T-Hangar Lease, the Airport Manager, at his or her sole discretion, shall determine whether the alterations, additions or improvements made to the T-Hangar shall be removed. In instances where removal is not required by the Airport Manager, the Tenant may surrender ownership and leave the alteration, addition or modification in place. If the modification is required to be removed, the Tenant shall repair any damage to the T-Hangar, at his or her sole cost and expense.

- (2) Furniture, freestanding storage bins and/or shelving and workbenches in a T-Hangar are acceptable if kept in the T-Hangar for the quiet, personal enjoyment of the Tenant and his/her guests. However, if any piece of furniture draws rodent and/or bug infestation into the hangar or surrounding area(s), Tenant shall be so informed and Tenant shall, within three (3) days of notice, remove any and all effected furniture, and Tenant may be required to furnigate the area(s) to the Airport Manager's satisfaction.
- (3) Tenant may install at his/her own expense within the premises a power winch or hand operated winch, and/or one (1) motorized towing vehicle built specifically for the towing of an airplane, to assist with maneuvering and the hangaring of the airplane. However, any winch, powered or otherwise, may only be attached to the T-Hangar floor and will not be attached in any way to the T-Hangar structure. A request must be made by Tenant for the installation and attachment of any towing device, powered or otherwise, to the T-Hangar floor in writing to the Airport Manager prior to the installation of any such device. Upon request of the Landlord, Tenant shall remove the device and the T-Hangar returned to its original condition at the termination of the Lease.
- (4) Tenant shall maintain electrical loads within the designed capacity of the electrical system. Any increase in the electrical load that will exceed the system's capacity shall require the prior written consent of the Airport Manager. Any items that remain plugged in must be connected to a GFI (Ground Fault Interrupter) outlet or a "fused" multi plug adapter.
- (5) Extension cords (flexible cords) shall not be used as a substitute for permanent wiring. Extension cords and flexible cords shall not be affixed to structures; extended through walls, ceilings, floors, under doors, or floor coverings; nor be subject to environmental damage or physical impact (VSFPC Section 605.5).

(6) Tenant shall at all times keep the T-Hangar free and clear of all litter, garbage, debris and refuse and in an orderly condition. Accumulation of rubbish, trash, rags, cans, grease, food items, gasoline and other combustible material in or about the T-Hangars is prohibited. Floor shall be kept clean and free of oil. The use of volatile or flammable solvents for cleaning floors is prohibited. Drip Pans shall be placed under engines and kept clean. Tenant shall keep the T-Hangar clean at all times, and it shall be subject to inspection at any time by the Airport Manager, or his/her designated representative, and if found to be a fire or accident hazard, Tenant shall be so informed and shall, within ten (10) days of notice, clean the T-Hangar to the Airport Manager's satisfaction.

Section 6 T-Hangar Special Uses

- a. T-Hangars are to be used for the purpose of storage of an Aircraft Owner's Airworthy Aircraft and the Owner's preventative aircraft maintenance [minor tasks such as changing oil as set forth in FAR Part 43.3 Appendix A (C)]. The following special uses by permit are allowed in T-Hangar Building "F" and in other T-Hangar Buildings as they are approved by the County Fire Marshall and permitted for such use by County Building Inspection: (1) Final Assembly of Amateur Built Aircraft, (2) Aircraft maintenance where the owner is a certified mechanic or in the case of Experimental Aircraft, where the builder/owner is authorized to perform any aircraft maintenance that is not prohibited by the FARS. (3) Unscheduled (specialized, courtesy or warrantee) Maintenance and (4) Aircraft maintenance performed by a Bona-Fide Employee of the Aircraft Owner.
- b. Tenants desiring to utilize their T-Hangar for special uses may apply to the Airport Manager, who will not unreasonably withhold such a permit, provided the Requirements and Prohibited Uses listed in Chapter II, Section 5 and 6 are met and maintained:
 - Final Assembly of Amateur Built Aircraft. Owners of Unassembled (1)Amateur Built Aircraft may conduct final assembly of their aircraft projects in County T-Hangars on a limited basis as long as reasonable and verifiable progress is made to restore or complete a homebuilt aircraft. Fuselages, wing sections, engines, etc. do not qualify as an aircraft and reasonable progress is defined as active and consistent work on assembling aircraft with the effect of bringing the aircraft to full flight status within one-hundred-eighty (180) days of occupying a T-Hangar. The Tenant/Aircraft Owner is responsible to provide evidence substantiating reasonable progress to the Airport Manager. Extensions of this time provision may be requested of the Airport Manager, with The Airport Manager shall consider hangar explanation for cause. demand when reviewing such a request. Restoration or final assembly of an aircraft as described herein is subject to inspection by the Airport Manager. Failure to make a good faith effort in meeting reasonable progress goals will be unacceptable and grounds for termination of the

lease agreement. It is not the intent under this special use permit to allow indefinite storage of aircraft restoration or construction projects in County Airport T- Hangars.

- (2) Aircraft Owner/Certified Mechanic Self Maintenance: An Aircraft Owner/T-Hangar Tenant who is also a certified aircraft mechanic may make repairs and perform maintenance on their own aircraft, as allowed by the by the FAA including inspection for those mechanics possessing inspection authority. Maintenance in the Aircraft Owner's leased T-Hangar is subject to the limitations contained in this chapter and any restrictions on such maintenance activities that may be promulgated in the future. The Tenant must provide proof of certification for any of the intended maintenance activities that will be performed in the leased T-Hangar. All such maintenance activities shall be for non-commercial purposes only. Any approved mechanic, operating within the allowances of this section, cannot enlist the assistance of other mechanic(s) in the performance of their work without first adding that mechanic to the permit.
- (3) Aircraft Owner Maintenance performed by a Bona-fide Full Time Employee: Aircraft maintenance and repair by a Bona-fide Full Time Employee of an Aircraft Owner/T-Hangar Tenant may be permitted by the Airport Manager upon establishment of employment as a regular wage earning agent of the Tenant. (See "Bona-fide Full Time Employee" in definitions).
- c. A permit fee to cover the cost of additional insurance required for these special uses, or other costs as determined by the Airport Sponsor shall be set at the time a permit is issued, based on County insurance and Risk Management costs and published along with the Airport's Rates and Charges, **O.D. 12-2**, (available at the Airport Office).
- d. T-Hangar Tenant must equip and maintain T-Hangars performing maintenance or repairs under the special use permit as described in Section III B above with a minimum (20 BC) portable fire extinguisher suitable for use on Type "B" and "C" fires. Fire extinguishers must be maintained in accordance with NFPA-10 as required by the Chesterfield Fire Prevention Code (VSFPC), mounted in a visible and accessible location in the T-Hangar and have affixed to them a current inspection certificate form an approved fire equipment company (NFPA 10).
- e. Any and all aircraft log books or other records as may be needed to assure compliance with these Rules and Regulations must be made available to the Airport Manager or his/her representative for inspection within twenty-four (24) hours of such a request. Additionally, such activities as allowed by this section can be inspected at any time by the Airport Manager or his/her representative.

Section 7 Termination and Surrender

- a. Upon termination of the lease agreement, for any reason, the Aircraft Owner shall remove all personal property from the leased T-Hangar. In the event the Aircraft Owner shall hold over and remain in possession of the T-Hangar after termination of the Lease Agreement such holding over shall not be deemed as a renewal or extension of the Lease Agreement.
- b. Tenant shall surrender the T-Hangar with all parts and surfaces broom clean and free of debris, and in good operating order, condition and repair, ordinary wear and tear excepted, at the expiration or termination of the Lease. Ordinary wear and tear shall not include any damage or deterioration that could have been prevented by good maintenance practice.

CHAPTER III

UNSCHEDULED AIRCRAFT MAINTENANCE

Section 1 Definition

"Unscheduled" (non-routine) maintenance is limited to the following:

- a. Warranted maintenance work that requires repair or additional attention by the warranting company.
- b. A malfunction or other condition that prevents the aircraft from being flown to another airport for maintenance (maintenance limited to that required to bring an aircraft to flyable condition).
- c. Maintenance work that requires a specialty service that is not provided by an existing FBO operating on the Airport.

Section 2 Procedures

No person shall allow a person onto the Airport to perform unscheduled maintenance on their owned or operated aircraft unless the aircraft requires repairs or maintenance, as defined above, which will not be performed by an authorized Full Service FBO providing aircraft maintenance and, or repair services on the Airport unless a Special Use Permit is applied for and granted under Permit Requirements, O.D. 11-3, (available at the Airport Office). Unless otherwise permitted in the designated T-Hangars for aircraft maintenance, repairs to aircraft or engines shall be made in the designated Self-maintenance Area (See APPENDIX "A" for location) and not on any part of the landing area, taxiways, ramps or fueling service areas.

Section 3 Permitting Requirements

a. An Aircraft Owner/T-Hangar Tenant experiencing an aircraft component failure or requiring specialized repair assistance that will not be provided by the Full Service FBO at Chesterfield County Airport may contract with a certified

maintenance specialist not resident on the Airport. The purposes of which shall be the conduct of such repairs as are limited to restoring the Tenant aircraft to flying condition and that the specialist registers with the Airport Manager and receives a permit for such repair work. The permit **O.D. 11-3** (available at Airport Office), will be based on certification proof of insurance required by our Risk Management Office, and permittee presentation of an indemnification agreement and possession of a business or equivalent local license issued in the FBO's jurisdiction. The T-Hangar Tenant will be required to give the Airport Manager specific times when said work will be performed, prior to the work beginning.

- b. All aircraft maintenance shall be conducted strictly in accordance with these Rules and Regulations; all Federal, State, and County Fire and Safety Regulations; all Federal, State, and County Rules and Regulations; air-worthiness directives, and other applicable Rules and Regulations.
- c. Equip and maintain T-Hangars performing maintenance or repairs as specified and described in Chapter II, Section 6 above.

CHAPTER IV

AIRCRAFT OPERATION AND AIRPORT TRAFFIC

Section 1 General

- a. Every person operating an aircraft shall comply with and operate such aircraft in conformity with procedures recommended in the AIM, and these Rules and Regulations, and all pertinent statutes, ordinances, laws, rules, regulations, orders and rulings of the FAA, DOAV and other appropriate governmental agencies. Each person operating an aircraft is responsible for the safety of their operation and the safety of others exposed to such operation.
- b. Due to the density of traffic at the Chesterfield County Airport, all Specialized Commercial or Flight Services or recreational aeronautical activities not covered by Chesterfield County Airport's Minimum Standards, an existing FBO or SASO's current operations, or activities that are specifically described and allowed by these rules, shall be submitted to the County in writing for approval prior to engaging in the aeronautical activity. The written request should thoroughly describe the activity, the operations, and all provisions for ensuring the safety of such operations. The requested aeronautical activity shall not be conducted until properly coordinated and approved in writing by the Airport Manager and until all other prerequisites required under Federal and State regulation to conduct such activity have been satisfied.
- Hand propping, when necessary, may only be performed by a certified pilot or mechanic with sufficient chocking or tie downs in place to stabilize the aircraft.
 A pilot or mechanic must be in the cockpit and at the controls of the aircraft

- whenever an aircraft engine is operating. Propping is at the pilot or mechanics own risk,
- d. Under no circumstance shall any person, other than a certified pilot or mechanic, approach any aircraft, fixed or rotary wing, until all blades or propellers have come to a complete stop.
- e. Rotorcraft are not permitted to perform autorotation to a running or skidding landing on any ramp surface, except in an actual emergency.
- f. All pilots of aircraft having radio equipment permitting two-way communications should contact the Airport Unicom on 123.05 to obtain airport advisory information, and announce their intentions when they are within ten (10) miles of the Airport. Pilots should also listen to the Automated Weather Observation System on 128.625. Pilots having radios permitting reception only should maintain a listening watch on the Unicom frequency at the Airport when they are within ten (10) miles of the Airport.
- g. The attached traffic pattern map (**APPENDIX "B"**) is made a part of these Rules and Regulations and each person operating an aircraft should comply with these traffic patterns as the recommended procedure.
- h. All aircraft shall follow the appropriate taxiway and runway guidance marking and lighting when operating on the Airport.
- i. Aircraft shall not be operated carelessly or negligently or with disregard of the rights or safety of others.
- j. If the Airport Manager, or in his absence the designated Full Service FBO Manager, believes the conditions at the Airport are unsafe for takeoffs or landings, it shall be within his or her authority to issue a NOTAM to close the Airport, or any portion thereof, for a reasonable time so the unsafe condition may be corrected.
- k. Every Aircraft Owner, operator or Tenant shall pay, when due, all charges owed to the County for services received on premises, or for equipment or goods leased or purchased. Failure to do so is considered a violation of these Rules and can be cause for termination of lease, license and, or permit.
- 1. No aircraft engine shall be run up unless the aircraft is in such a position that the propeller or turbine engine blast clears all hangars, shops, other buildings, persons, other aircraft and automobiles or other vehicles, or in the area and the flight path of landing aircraft.
- m. The Airport Manager will exercise the right to stop any operation on the airport when safety is a concern.

Section 2 Taxiing

- a. All aircraft shall be taxied at a reasonable, safe speed.
- b. Aircraft awaiting take-off shall stop <u>prior to the hold line</u> for the runway in use and in a position so as to have a direct view of aircraft approaching for a landing and shall give full right-of-way to such approaching aircraft.
- c. No person shall taxi an aircraft until they have ascertained by visual inspection of the area that there will be no danger of collision with any person or object.
- d. Aircraft on the taxiway must stop before entering the runway and allow aircraft which are exiting the runway in use to clear the runway. Aircraft clearing the runway after landing have the right-of-way over aircraft on the taxiway preparing to enter the runway.
- e. Back taxiing on any runway shall be done only if it can be done safely and only when no other taxi route is available.
- f. The unnecessary taxiing of aircraft directly in front of the State Police Hangar is prohibited. State Police Helicopters routinely respond to medical and police emergencies from their helicopter operating area. The primary operating area for Med-Flight is denoted by the hash marks painted on the ramp adjacent to the State Police Hangar.

Section 3 Traffic Rules

- a. All pre-takeoff checks should be completed prior to crossing the hold line for the active runway.
- b. All aircraft taking off shall proceed straight ahead to an altitude of at least five-hundred (500) feet AGL and after ascertaining there is no danger of collision with other aircraft shall then follow normal practice as outlined in (APPENDIX "B") and the AIM.
- c. All aircraft intending to remain in the traffic pattern shall continue to climb to the traffic altitude of one-thousand (1000) feet AGL for singles and light twins, and fifteen-hundred (1500) feet AGL for heavy multi-engine, turbine and turbojet aircraft following procedures as described in the AIM, and thereafter follow the pattern as set forth on the attached traffic pattern chart (APPENDIX "B"). Helicopters should maintain an altitude of five-hundred (500) feet AGL and remain clear of fixed wing traffic. Aircraft having flight characteristics which make the above procedure impractical should be flown at approach altitudes for that type of aircraft and shall conform to the pattern shown as nearly as possible.

- d. As a proactive attempt to reduce perceived noise impact north of the Airport, the County has instituted a voluntary preferred no wind use of runway 15. This is a voluntary program left to the discretion of the pilot in command.
- e. All IFR approaches in VFR weather conditions shall be conducted in accordance with the applicable FAR's and recommended procedures in the AIM.

Section 4 Landings

- a. Aircraft entering the traffic pattern shall do so as described in the AIM.
- b. All aircraft shall turn off the runway as soon as reasonably possible after landing and taxi only on designated taxiways.

Section 5 Ultra-light Vehicles

- a. All Ultra-light Vehicles using the Airport, due to their operating characteristics, small radar and visual signature, shall be equipped with a radio capable of sending and receiving the UNICOM frequency of 123.05.
- b. Before operating from the Airport, the Ultra-light Pilot shall be briefed on airport policy, traffic pattern procedures, and population areas by a certified FAA flight instructor approved by the County.
- c. Ultra-light vehicle operators shall maintain a minimum \$100,000 combined single limit insurance policy. Operators shall provide proof of insurance upon request of the Airport Manager.

Section 6 Aerial Advertising - Banner Towing

Any person wishing to use the Airport to pick up or drop an aerial advertising banner shall obtain the prior written approval of the Airport Manager. The Airport Manager shall require such safeguards as he deems necessary to protect the Airport, aircraft using the Airport and the general public before issuing a permit. These requirements may include, but are not limited to, bonds, insurance policies, additional security personnel, facilities and waivers/authorizations to the FAR's issued by the FAA. The County may establish and charge reasonable fees for this activity. Any pedestrian activity within the runway and/or Alpha taxiway safety areas shall be required to register with the designated Full Service FBO desk in the main terminal, and sign applicable acknowledgment of Risk and Liability Agreement (APPENDIX "C") forms approved by the County Attorney.

Section 7 Parachute Jumping

Persons wishing to use the Airport for a parachute drop area shall obtain the prior written approval of the Airport Manager as required by FAR 105.17. The Airport Manager shall require such safeguards as he deems necessary to protect the Airport, aircraft using the Airport and the general public. These requirements may include, but are not limited to, bonds, insurance policies, additional security personnel, facilities and waivers/authorizations to the FAR's issued by the FAA.

The County may establish and charge reasonable fees for this activity. Any pedestrian activity within the runway and/or Alpha taxiway safety areas shall be required to register with the designated full service FBO desk in the main terminal, and sign applicable acknowledgment of Risk and Liability Agreement (APPENDIX "C") forms approved by the County Attorney.

Section 8 Non-Commercial Sailplane Operations

- a. <u>General</u> The purpose of this section is to establish standard ground operating and safety procedures for the operation of glider aircraft at the Airport. Persons who operate glider aircraft shall comply with all items contained in this section.
- b. <u>Communications</u> An onboard radio capable of transmitting and receiving local Unicom frequency (123.05) is recommended due to density of traffic. Notification to personnel operating the Unicom base station of the presence of glider operations for the purpose of pilot advisory information is also recommended.
- c. <u>Standard Operating Procedures</u> Operator shall submit written standard operating procedures to be reviewed by the Airport Manager, Airport Advisory Board, and FAA Flight Standards District Office prior to operating at the Airport.
- d. Ground Operations Personnel and Equipment Operator shall not exceed a specified number of motor vehicles one (1) and personnel three (3) to assist the glider and tow plane pilots while on the runways and taxiways without written approval from the Airport Manager. Said motor vehicle and personnel shall be pulled back from, remain clear of the runway safety area two-hundred-fifty (250) feet from centerline, and not obstruct any aircraft taxiway when not required for glider operations. Motor vehicle must be equipped with yellow rotating light while in use in the AOA. No more than two (2) glider passengers shall be present in the staging areas at one time. Said passengers shall be escorted to and from the staging area from the terminal building by a member of the operating personnel referenced above and remain outside the two-hundred-fifty (250) feet safety area, except while actually acting as a passenger in the glider.
- e. Ground Operations Glider Staging and Recovery During the staging of the Sailplane for departure from taxiways B and E, the Sailplane shall be positioned no closer than two-hundred (200) feet from the runway centerline. The tow plane shall remain behind the yellow hold short line two-hundred-fifty (250) feet from runway centerline until the Sailplane has taken the active runway. Upon return to the Airport, the tow plane should be removed from the active runway and taxiways as not to impede the flow of other aircraft traffic when not required for glider operations. The Sailplane must also be removed from the active runway and parallel taxiway as soon as possible. When necessary, the Sailplane and tow plane shall be repositioned onto the grass areas outside the two-hundred-fifty (250) feet safety areas, adjacent to taxiways B and D to yield to taxiing aircraft.

d. Registration and Acknowledgment of Risk and Liability Agreement - Due to the introduction of personnel onto an active runway, and onto the runway and/or Alpha taxiway safety areas, any pedestrian within this area shall be required to register with the designated Full Service FBO desk in the main terminal, and sign applicable acknowledgment of Risk and Liability Agreement (APPENDIX "C") forms approved by the County Attorney.

Section 9 Parked Aircraft

- a. No person shall park, store, tie down or leave any aircraft on any area of the Airport other than that designated by the Airport Manager or by a Full Service FBO subject to approval of the Airport Manager.
- b. The pilot or Owner of an aircraft shall properly secure the aircraft while it is parked or stored. Aircraft pilots or Owners are solely responsible for supplying their own Tie-down rope, parking and tying down their aircraft, including any special security measures required by weather conditions or other conditions at the Airport. Aircraft pilots or Owners shall also be responsible for securing aircraft in a manner necessary to avoid damage to other aircraft or buildings at the Airport in the event of wind or other severe weather. Owners of all aircraft shall be held solely responsible for any damage or loss resulting from the failure of such Owner or the pilot of such aircraft to comply with this rule.
- c. Snow removal shall be limited to runways, taxiways and paved taxi-lanes adjacent to Tie-down spaces as identified in the Airport's Snow Plan.
- d. Separate areas shall be designated by the Airport Manager for FBO, SASO aircraft and itinerant aircraft tie-downs. No person shall use any aircraft anchoring or tie-down facilities when such facilities are already in actual use by, rented to or designated by the Airport Manager for use by another person. Parking adjacent to the State Police Helicopter pad when alternative tie-down spaces are available is prohibited; as State Police Pilots responding to medical and police emergencies could be delayed in their response.

CHAPTER V

LANDSIDE OPERATIONS

Section 1 Line Services and Aircraft Fueling

a. Fuel sales to the public, including Aircraft Owners leasing a T-Hangar, shall only be conducted by a Full Service Fixed Based Operator in accordance with Airport Minimum Standards. Non-commercial self fueling operations by Aircraft Owners based at the Airport will be allowed by permit only. Persons may self-fuel Aircraft Owned by them provided such operation is conducted in accordance with NFPA 407 and the Airport Rules and Regulations.

b. Aircraft may not be fueled or de-fueled inside the T-Hangar. No other flammable or combustible liquid shall be dispensed into or removed from the fuel system of an airplane within any T-Hangar. No aircraft shall be fueled or de-fueled while its engine is running or a block heater is in use. Self-fueling shall be conducted in designated areas only (NFPA 407 – Section 5.15).

Section 2 Aircraft Self - Service Fueling

- a. General Persons who intend to use flammable liquids on the Airport and/or fuel their own aircraft shall do so by Self Fuel Permit only, Operational Directive, O.D. 11-4, (available at the Airport Office) and in accordance with the requirements of the National Fire Protection Association (NFPA) 407 Standard for Aircraft Fuel Servicing, and FAA Advisory Circular 150/5230-4 (with changes). The following shall apply except where applicable codes differ, in which case the latter shall prevail.
- b. Fueling Operations No aircraft shall be fueled or de-fueled while its engine is running, or while in a hangar or other enclosed place. Adequate connections for bonding of electricity shall be continuously maintained during fueling. Persons may only self-fuel Aircraft Owned by them provided such operation is conducted in accordance with NFPA 407 and these Rules and Regulations. Self-fueling shall be conducted only in those areas designated in (APPENDIX "A"). An Aircraft Owner may service his/her own aircraft provided they do so personally, or with their own Bona-Fide Full Time Employee and their own equipment, in accordance with the established regulations of the County related to such work. Full Service FBO's may fuel aircraft in areas other than the designated self-fueling area identified in (APPENDIX "A") and exception may be made for Virginia State Police helicopter operations under emergency conditions.
- c. <u>Fuel Storage</u> No fuels shall be stored on Airport property other than in the bulk storage and distribution system (Fuel Farm) owned and maintained by the County except:
 - (1) The fuel stored in a tank on a county maintenance vehicle used for the refueling of grounds maintenance equipment.
 - (2) The mobile refueling auto gas tank used by the designated Full Service FBO for the purpose of refueling the aircraft refueling vehicles.
 - (3) A maximum of two (2) gallons may be stored in an approved listed container for the sole purpose of fueling aircraft or towing equipment.
- d. <u>Fuel Servicing Vehicles</u> A person operating on the Airport electing, with the written permission of the Airport Manager, to use fuel servicing vehicles (hereinafter referred to as "refuellers") for the purpose of personally dispensing fuel into their own aircraft, must meet the following criteria:

- (1) The person shall own the refueller.
- (2) Refuellers and their systems shall be maintained and operated in accordance with Environmental Protection Agency (EPA), Federal, State, and local codes covering fuel dispensing on airports, and NFPA 407 (latest edition). The applicable sections of FAA Advisory Circular 150/5230-4 (with revisions) shall also be followed.
- (3) Refuellers shall not be stored or parked on Airport property. Refuellers shall be parked or positioned on Airport property only when actually dispensing fuel to the Owner's Aircraft. Once fuel dispensing is complete, refuellers shall be immediately removed from Airport property. Full Service FBO's, permitted by written agreement with the County, shall be exempt from this requirement.
- (4) Refuellers shall use only the entrance, exit, and route designated by the Airport Manager during the transportation of fuel onto and off the Airport.
- (5)Operator of the refueller shall purchase and maintain in force insurance that will, in the opinion of the County's Risk Manager, protect the refueller operator and the County from claims which may arise out of or result from the fueling services performed, whether such services be performed by refueller operator's officers or employees, or by anyone for whose acts any one of them may be liable. The insurance coverage shall be such as to fully protect, in the opinion of the County's Risk Manager, the County and the general public from any and all claims for injury or damage or both resulting or arising from any actions or omissions on the part of the refueller operator, its officers or employees. The refueller operator shall furnish the County with a Certificate of Insurance naming the County as an additional insured for all required coverage in addition to updated Certificates of Insurance reflecting any and all changes to the refueller operator's insurance coverage including, but not limited to, changes in coverage terms, coverage limits, insured risks, agents or insurers. Should any of the coverage be canceled, the issuing company or its agent shall mail a thirty (30) days written notice of such cancellation to the County.
- (6) Refueller operator shall be accountable for any damages, fuel spills, or environmental contamination resulting from its negligent operations, or equipment malfunction. All such damages shall be paid for by the refueller operator. Adequate environmental insurance, or proof of financial ability to clean up a major spill twenty-five (25) gallons or more, must be provided to the County prior to bringing a fuel servicing vehicle onto Airport property and conducting refueling activity. Refueller operators shall be fully responsible for the protection of all persons, including members of the public, employees of other contractors or

- subcontractors, and all public and private property which is affected by work performed by, or on behalf of the refueller operator.
- (7) An annual fee (as per Current Rates and Charges Directive) shall be paid to Chesterfield County to obtain a permit to conduct volume self-fueling operations at the Airport. Volume self-fueling shall be defined as self-fueling of more than one Owner Aircraft, or aircraft larger than single, reciprocating engine type. A per trip fee shall also be paid by volume self-fueling operators to the County (as per Current Rates and Charges Directive) for each round trip fueling operation conducted on Airport property.
- (8) Each refueller shall be conspicuously marked in letters of contrasting color, with the word "flammable" on both sides and rear of the cargo tank, and with the wording "emergency shutoff" and other appropriate operating instructions required at the emergency operating devices in letters at least two-inches high. Each refueller shall also be conspicuously marked on both sides and rear with the type and grade of fuel it contains in appropriate color schemes.
- (9) A refueller cargo tank shall be supported by and attached to, or be part of, the vehicle upon which it is carried.
- (10) Refueling with non-public refuellers shall be conducted only in those areas designated in writing by the Airport Manager.
- e. <u>Contracts Prohibited</u> an Aircraft Owner shall not contract with or permit a second party, such as a fuel service company or fuel contractor, to refuel an aircraft. Refueling by such a second party is considered a commercial aeronautical activity and subject to the Airport Minimum Standards.
- e. <u>Fuel Flowage Fee</u> Aircraft Owners who choose to self-fuel shall pay a fuel flowage fee as per Current Rates and Charges **O.D. 12-2**, (available at the Airport Office) for each gallon to the County for all fuel pumped in excess of five-hundred (500) gallons in a calendar year. A fuel flow report, invoice, or receipt with the appropriate remittance shall be provided to the Airport Manager by the last day of each month for the fuel dispensed on the Airport during such month.

Section 3 Airport Industrial Park Leases

Owners of property in the Airport Industrial Park who desire to access the Airport corporate taxiway constructed on the west side of the runway shall apply to the County for access. The owner must submit construction plans depicting the proposed connection to the corporate taxiway. These plans must show grading, drainage, pavement, fencing, etc. Use of the connecting taxiway to gain access to the landing area shall be permitted by written agreement only and restricted to aircraft use incidental to such business without offering any commercial

aeronautical services to the public on Airport property. Through-the-fence operations, as referenced in FAA Order 5190.6B - Airport Compliance Requirements, shall not be permitted to provide aeronautical services to the public from an off airport location of facility.

Section 4 Personal Aircraft Sales

Nothing contained herein shall prohibit any person from selling such person's own aircraft.

Section 5 Flying Clubs

- a. In an effort to promote flying for the personal transportation of its members, to promote flying for pleasure, and to develop skills in aeronautics, including piloting, navigation, and awareness and appreciation of aviation requirements and techniques, the category of Flying Clubs is added to these Rules and Regulations.
- b. All Flying Clubs desiring to base their aircraft and operate on the Airport must comply with the applicable provisions of these Rules and Regulations. However, they shall be exempt from regular Fixed Base Operator requirements upon satisfactory fulfillment of the conditions as follows:
 - (1) The Flying Club shall be a nonprofit entity (corporation, association or partnership) organized for the express purpose of providing its members with aircraft for their personal use and enjoyment only. The ownership of aircraft must be vested in the name of the Flying Club (or owned ratably by all of its members). The property rights of the aircraft shall be held jointly and no part of the net earnings of the Club will inure to the benefit of any member in any manner. The Club shall not derive greater revenue from the use of its aircraft than the amount necessary for the operation, maintenance, insurance, and replacement, upgrading or expansion of its aircraft fleet, except those reserves as may be deemed necessary for the above purposes may be accommodated and maintained.
 - (2) Aircraft owned by a Flying Club shall only be operated by Club members. The Flying Club shall not conduct charter, air taxi, rental or any other commercial operations. The Club shall not conduct aircraft flight instruction except for members. Any qualified mechanic who is a member and part owner of the aircraft owned and operated by a Flying Club shall not be restricted from doing maintenance work on aircraft owned by the Club, provided the Club does not become obligated to pay for such maintenance work, except that such mechanics may be compensated by credit against payment of dues or flight time. Maintenance shall be subject to the provisions of Chapter II, Section b. (7) of these Rules and Regulations. Any qualified flight instructor who is a member and part owner of the Aircraft Owned and operated by the Club shall not be restricted from performing flight instruction on a non-profit basis, except

that such flight instructor may be compensated by credit against payment of dues or flight time. For profit instruction may be provide to Club members by Club members provided that they are also permitted by the Airport as Independent Flight Instructors.

- (3) All Flying Clubs and their members are prohibited from leasing or selling any goods or services whatsoever to any person or firm other than a member of such Club at the Airport, except that said Flying Club may sell or exchange its capital equipment.
- (4) The Flying Club, with its initial application, shall furnish the County a copy of its charter and by-laws, articles of association, partnership agreement or other documentation supporting its existence; a roster, or list of members, including names of officers and directors; evidence of insurance in the form of a certificate of insurance in the minimum amounts required by the State of Virginia; number and type of aircraft; evidence that ownership is vested in the Club; and operating rules of the Club. Evidence of insurance shall be submitted to the Airport Manager on an annual basis during the renewal month of the policy. The books and other records of the Club shall be available for review at any reasonable time by the Airport Manager.
- (5) A Flying Club shall comply with all Federal, State and County laws, ordinances, regulations and these Rules and Regulations.
- (6) If a Flying Club, or its members violates any of the foregoing, Flying Club rules, and the violation is not corrected within fifteen (15) days of the violation, the Club shall be required to terminate all operations on the Airport and members and membership aircraft will be required to vacate the Airport.

Section 6 Assigned Areas

No person authorized to operate on or conduct business activities at the Airport shall conduct any of its business activities, or park any aircraft, on any areas except those specified in the lease or written agreement. No FBO shall occupy any common use areas except as authorized by these Rules and Regulations or by the County.

Section 7 Aircraft Washing

All Aircraft and vehicle washing shall be conducted only in the area designed for washing as depicted in (APPENDIX "A").

Section 8 Handling and Storing Hazardous Articles and Materials

The Chesterfield County Airport has no cargo handling agent at the Airport. Hazardous cargo, including explosives, corrosives, and radioactive materials, are handled, stored, and transported to and from the Airport by the air carrier in

accordance with the hazardous cargo specifications adopted by their company, in accordance with applicable Federal Regulations.

Section 9 Compliance with Safety and Environmental Rules and Regulations

All users of the Airport shall comply with all Safety and Environmental Rules and Regulations adopted by the County. A copy of Spill Prevention Control Plan and Storm Water Pollution Prevention Plan shall always be available in the office of the Airport Manager.

Section 10 Vehicle Access

- a. Vehicular access to the airfield, including access to the T-Hangars, is permitted only with display and use of a valid Airport Access Card. Vehicle access to the T-Hangar is limited to the immediate area surrounding the T-Hangar. Access to the Airport via security gates is for Airport Tenants, their employees, guests or customers, County personnel, police, fire, miscellaneous emergency personnel, State & FAA personnel for maintenance of airport equipment, and contractors. Aircraft Owner/Tenant is responsible for compliance with all Airport Rules and Regulations by all of its employees, agents, and invitees.
- b. The Airport Manager may, at any time, and in any manner, limit, withdraw or change airfield access that may be permitted with a valid AOA access permit. If Tenant commits, permits or allows any violation of these rules, either by itself or any of its employees, agents or invitees, the County shall have the right, without notice, and in addition to such other rights and remedies that it may have, to remove or tow away the vehicle. Aircraft Owners/Tenant's shall be responsible for all costs and charges as may be imposed by the County or any other regulatory body due to such violation. All such costs shall be immediately paid to County.
- c. Tenants are responsible for the conduct of employees, guests and customers, ensuring that they adhere to these Rules and Regulations.
 - d. Gate cards may be obtained at the Airport Administrative Office and require the completion of a Security Gate Card/Opening Device. There will be a fee for lost or replacement gate cards. For further information on gate cards please refer to the Airport Gate Card/Opening Policy, **O.D. 11-5**, (available at the Airport Office).

Section 11 Vehicular Traffic and Parking

a. The traffic laws of the Commonwealth of Virginia shall apply to the streets, roads and vehicular parking areas at the Airport, unless otherwise provided by law. All traffic, informational, and warning signs shall be obeyed. Except for fire-fighting equipment, ambulance and emergency vehicles responding to an emergency situation, no person shall take or drive any vehicle on the Airport, other than on established streets, roads and vehicular parking facilities, unless permission has been first obtained from the Airport Manager or designated Full Service FBO

Manager in his/her absence. This permission is not required for personal vehicles operating on the Tie-down ramp areas, to and from a parked aircraft, or to the T-Hangar areas by T-Hangar renters. The pilot in command of said aircraft, or his or her authorized representative, must drive the vehicle onto the ramp area for the purpose of loading, unloading or servicing of the aircraft. Operators of unauthorized vehicles shall be subject to arrest and vehicles towed, if necessary, at the owner's expense. In addition to the foregoing, the following rules apply to vehicles operated on the Airport:

- (1) No person shall operate a motor vehicle on the Airport in a reckless or negligent manner.
- (2) No person shall operate a motor vehicle on the AOA portion of the Airport in excess of fifteen (15) miles per hour except for fire, emergency, or law enforcement vehicles responding to an actual emergency or during an emergency exercise.
- (3) Pedestrians and aircraft shall have the right of way at all times. When vehicles are operating on the AOA, they shall pass to the rear and at least twenty (20) feet clear of taxiing aircraft.
- (4) When parking on the tie-down or transient apron, vehicles shall be parked clear of taxiways, taxi lanes, object free area and parked aircraft so as not to endanger, damage or interfere with such aircraft.
- (5) The operator of any vehicle must have a valid driver's license and be qualified to drive the vehicle being operated.
- (6) Ground vehicles shall not be driven or parked upon any dirt, grass or sod areas of the Airport unless authorized by Airport Manager. Ground vehicle parking shall be conducted in designated parking areas.
- (7) Airport tenants and their employees who operate airport support vehicles should be familiar with the County's Guide to Ground Vehicle Operations on the Airport, O.D. 11-6, (available at the Airport Office). This guide provides airport orientation and operational information and should be used as a resource document for training ground vehicle operators.
- (8) All vehicle parking privileges are subject to change, and may be limited or withdrawn at any time by the Airport Manager as airport security policies are changed or updated from time to time.
- b. Aircraft Owner/Tenant's or his Bona-fide Employee and invitee's vehicle may be temporarily parked directly in front of or inside the assigned T-Hangar so as not to interfere with adjacent T-Hangar Tenants or taxiing airplanes as long as the owner of the automobile remains in the immediate vicinity. If Aircraft

Owner/Tenant intends to remain off the airport with their airplane, Tenant may park their automobile in the hangar, or for periods greater than one week in authorized parking areas outside of the fence near the T-Hangar area. Antique autos, boats, additional cars, motorcycles, ATV's, or other airplanes may not be stored in T-Hangars. The Airport Manager or his/her representative shall have the right to remove any automobile, at Tenant's expense, that is parked in an unauthorized area.

- c. No vehicle parking (pickup or drop off excepted) is allowed on Airport ramps, taxiways or unpaved areas of the airfield at any time.
- d. The County is not responsible for any damage to vehicles, injury to persons or loss of property that may occur while parking or using vehicles on Airport property. All risk is assumed by the party using the parking area.

CHAPTER VI

SECURITY

Section 1 Requirements

Aircraft Owners/T-Hangar Tenants using the airport shall follow the security requirement contained herein:

- a. Each Tenant who has a Lease Agreement with the County shall make every reasonable effort to prevent, restrict and deter unauthorized access to the AOA by means of their access to the airport.
- b. All Tenants that have been issued an Airport Access Card shall stop and allow the gate to close before proceeding (No "Piggy Backing" through the gate).
- c. All buildings including T-Hangars, when unattended for any period of time, shall be closed and locked so as to prevent unauthorized entry.
- d. No gate or door will be blocked open, with the exception of special events requiring public access.

Section 2 Locks and Keys

a. Heavy-duty padlocks are furnished with each T-Hangar. Tenant will not replace or remove these locks. If Tenant furnished its own lock, a copy of the key must be delivered to the County Airport Administration Office prior to using the lock. If lock changes or additional keys are necessary for any reason, Tenant shall contact the Airport Administration Office. Duplicate keys will not be authorized for any person other than assigned Tenants. Landlord agrees that keys will be used by the Airport Manager or his designee. The FBO will only receive a key if the Tenant agrees to allow FBO T-Hangar access.

- b. Landlord shall use keys only:
 - (1) For reasonable inspections to assure compliance with this Lease and Airport policies.
 - (2) In case of emergency, Tenant acknowledges that Landlord has no control over and no responsibility for the use of keys or permission provided by Tenant to the FBO or any other party for access. T-Hangars may be inspected for safety and compliance with this Lease Agreement without notice and at any time by the Airport Manager or his assigned agent.

CHAPTER VII

INSURANCE AND INDEMNITY

Section 1 FBO and SASO Requirements

- a. Each FBO and SASO shall maintain the types of insurance described in this Section (Amounts are contained in the Airport Minimum Standards).
- b. FBO's and SASO's shall use only insurance companies of recognized standing which are authorized to do business within the Commonwealth of Virginia. The insurance companies shall have a Best's Rating of at least "A" and a financial size of "Class VII" or better in the latest edition of Best's Insurance Reports. The amounts of the insurance shall not be deemed a limitation on FBO's and SASO's liability to the County and if the County or any of its authorized agents, officers, representatives or employees become liable for an amount in excess of the insurance, FBO's and SASO's agree to indemnify, defend, save and hold harmless the County, its agents, officers, representatives and employees for the whole thereof.
- c. Each FBO or SASO shall at the request the Airport Manager deliver copies of all certificates of insurance for required insurance, any policy amendments and policy renewals and any additional information related to required insurance. Each policy shall require the insurer to provide at least thirty (30) days prior written notice to the County of termination or cancellation.
- d. Each FBO shall submit to the appropriate insurer timely notices and claims of all losses insured under any required insurance policies, pursue such claims diligently and comply with all terms and conditions of required insurance policies. Each FBO and SASO shall promptly give the Airport Manager copies of all notices and claims of loss and any documentation or correspondence related to such losses. Each FBO and SASO shall make all policies for required insurance, policy amendments and other related insurance documents available for inspection and photocopying by the Airport Manager or the County upon reasonable notice.

- e. Each FBO and SASO shall maintain the following insurance policies as required insurance under these Rules and Regulations in the amounts specified in the Airport's Minimum Standards (Available at the Airport Office):
 - (1) Workers Compensation and Employers Liability Insurance.
 - (2) <u>General Liability Insurance</u>.
 - (a) The County shall be included as additional insured.
 - (b) Contractual liability coverage for the liability assumed under the indemnification provision of these Rules and Regulations.
 - (3) Business Automobile Liability Coverage.
 - (4) <u>Aircraft Liability Insurance</u>.
 - (5) Hangar keepers Liability Insurance.
 - (a) The County is to be included as additional insured.
 - (b) Contractual liability coverage for the liability assumed under the indemnification provisions of these Rules and Regulations.
- f. Any Person or entity conducting an Aeronautical Activity for the public at the Airport under the supervision of, or pursuant to an arrangement with, an FBO shall not be required to obtain the insurance described above as long as the insurance policy or policies of the FBO covers that person or entity to the same extent and in same amount as the applicable insurance policy described above.

Section 2 Independent Flight Instructors

Independent Flight Instructors permitted by the County to conduct an Aeronautical Activity for the public at the Airport shall provide combined insurance for public liability and property damage as defined in the Airport's Minimum Standards (Permit **O.D. 11-7** and forms are available at the Airport Office).

Section 3 Aircraft Owners

Insurance for aircraft registered in Virginia shall be in accordance with Code of Virginia, Chapter 8.1, Title 5.1-88. 1 through 6, and the minimum coverage shall be as follows:

- (1) \$50,000 bodily injury or death of one person
- (2) \$100,000 bodily injury or death of two or more persons
- (3) \$25,000 property damage protection
- (3) \$250,000 single limit policy

Section 4 Hangar Tenants

The Aircraft Owner agrees not to keep in the T-Hangar anything prohibited by the County or its insurer. Aircraft Owner agrees to comply at his/her own expense with all requirements of the County or its insurer necessary to keep in force any fire and liability insurance covering the premises and building. Non-fulfillment of the insurance conditions by Aircraft Owner may constitute a material breach of the lease.

Section 5 Incident Reports

Any incident which may cause a claim to be made against the County or FBO or SASO shall be reported within one business day to the Airport Manager.

Section 6 Indemnity

- a. Aircraft Owners, operators, T-Hangar Tenants, FBO's and SASO's agree to release, indemnify and hold Chesterfield County, its officers, and employees harmless from and against any and all liabilities, damages business interruptions, delays, losses, claims, judgments of any kind whatsoever including all costs, attorney's fees, which may be suffered by, or charged to, Chesterfield County arising out of the Aircraft Owner's use of the Airport or by reason of any loss or damage to property, or injury to or death of any person arising out or by reason of any, breach, violation or non-performance by the Aircraft Owner or its employees, invitees, of any covenant or condition of the Lease Agreement or by any act or failure to act by those persons. Chesterfield County shall not be liable for its failure to perform under the Lease Agreement or for any loss, injury or damage or delay of any nature whatsoever resulting there from caused by an act of God, flood, accident, labor dispute, riot or insurrection, war or any other cause beyond Chesterfield County's control.
- b. The County retains all the benefits and protections of the County's sovereign immunity as it exists, at the execution of this agreement, and that the County does not have the ability as a matter of law to waive such immunity. The Aircraft Owner/T-Hangar Tenant further agrees to be liable for any damage to the County's property and/or stored aircraft arising from Tenant negligence including, but not limited to, the carrying on of unauthorized activities in the T-Hangar space. Tenant shall be liable for any damage to County property and/or other stored aircraft arising from acts or omissions or agents or invitees including, but not limited to, unauthorized activities in the premises, or the use of/or storage of flammables in violation of the T-Hangar Rules, Airport Rules and Regulations, and Airport Minimum Standards.

Section 7 Certificate of Insurance

The Aircraft Owners based at Chesterfield County Airport shall deliver to the Airport Manager at the same time as the execution of their Lease Agreement, a certificate of insurance confirming the coverage in effect. Upon renewal(s) of such policies, but within no less than thirty (30) days after to the expiration of the term of the insurance, a new certificate will be presented to the Airport Manger.

CHAPTER VIII

INFRACTIONS AND ENFORCEMENT

Section 1 Definition

Infraction means any of the following:

- a. A violation of these Rules and Regulations.
- b. In the case of an FBO, a violation of the FBO Lease.

Section 2 Effects

- a. Based on the severity of the infraction, termination of all rights to use the airport may occur. However, any infraction by any person shall result in a minimum of the following:
 - (1) The first violation of any of the Rules and Regulations will result in a verbal warning. The warning will be noted in the County records for each Tenant or Operator.
 - (2) The second violation will result in a written notice (U.S. Mail, Certified, and Return Receipt).
 - (3) The third violation will result in termination of lease or operator agreement by written notice (U.S. Mail, Certified, and Return Receipt) and in the case of leased T-Hangar or office space, surrender or removal of the Tenant or operators aircraft as described herein. Any person utilizing the Airport outside a lease or operating agreement in violation of these Rules and Regulations may be promptly removed, either temporarily or permanently, from the Airport by the County Police and/or the Airport Manager. Prior to imposing removal or denying access, the Airport Manager shall make every reasonable effort to ensure that the violator is aware if the nature of the infraction and the actions required becoming compliant with the Rules and Regulations.
- b. In addition, any penalties otherwise provided for by County ordinance or law, the Civil Air Regulations, Federal Aviation Regulations, Virginia Aviation Law, and all other rules and regulations of the FAA shall apply.

Section 3 Notice and Termination

The County, acting through the Airport Manager or another whom it may from time to time designate, shall give notice of infraction or termination of the lease, contract or agreement under which such person is operating by sending a letter, certified mail, to the person at the address listed upon the relevant lease, contract or agreement or, at the option of the County, to the person's last known address.

Upon termination, such person shall be informed as to their eligibility for a new lease, contract or agreement which shall be for a minimum period of six (6) months depending on the severity of the violation.

Section 4 Hearings

Any person whose lease, contract or agreement shall hereafter terminate or who is removed/denied access to the airport may request a hearing thereon before the County provided such request is made in writing and received by the Office of the County Attorney within ten (10) calendar days of the date of the County's notice of termination to such person.

Section 5 Removal of Aircraft

Any Aircraft Owner/T-Hangar Tenant occupying a T-Hangar in violation of the T-Hangar Rules, Airport Rules and Regulations, or Airport Minimum Standards, lease, Local, State or Federal Law, shall have his or her aircraft removed by the Airport Manager from the T-Hangar within forty-eight (48) hours of the date of written notification by the Airport Manager that the aircraft must be removed. An Aircraft not timely removed from the T-Hangar may be removed by the Airport Manager and moved to any other place on the Airport without liability for damage to the aircraft or other property that may result from such removal. All cost and expense of moving the Aircraft shall be paid by the Aircraft Owner. Once moved to another location on the Airport, the Aircraft Owner shall remove the aircraft from the Airport within three (3) days of its removal from the T-Hangar. If, after such time, the aircraft is not removed from the Airport, the Airport Manager may commence lien sale proceedings as provided by law.

CHAPTER IX

RESERVATION OF RIGHTS

Section 1 Explanation of Rights and Duties Imposed

Notwithstanding anything to the contrary contained herein, the following rights, privileges and duties are hereby conferred and imposed upon individual users of the Airport Facilities, including but not limited to individual pilots, Aircraft Owners, Tie-down and T-Hangar tenants:

- a. Each individual user as defined herein shall meet and maintain all requirements, and regulations and standards for licensing, maintenance, and repair of aircraft established by the Federal Aviation Regulations (FAR's), Safety Bulletins, Advisory Circulars, Virginia Aviation Law, and all other Federal and State regulations and standards for licensing, maintenance, and repair of aircraft.
- b. It shall be the duty of each individual user of the Airport to keep fully informed of and current on, all Federal, State and County Aviation Rules and Regulations and to completely and promptly comply.

- c. Nothing contained herein shall restrict or limit the right of individual users to conduct maintenance and repairs on their own aircraft which are allowed by FAA or these Rules and Regulations. However, all such repairs and maintenance shall be authorized and conducted strictly in accordance with Federal, State and County Rules and Regulations, circulars, airworthiness directives and requirements and such maintenance and repairs shall be conducted within the area designated for owner maintenance (APPENDIX "A") or in T-Hangars leased by individual users of the airport under Special Use Permit or at authorized repair facilities on the Airport. (Aircraft maintenance conducted in T-Hangars must be approved in writing by permit). It is understood that this approval shall be withheld if such request is in violation of Chapter II requirements of these Rules and Regulations, or other safety related practices identified by the Airport Manager, County Fire Marshall, or Risk Manager.
- d. All individual users shall comply with these Rules and Regulations regarding common use areas and shall not allow any maintenance or repair activities, or any part thereof to be conducted in said common areas and shall comply with all safety and fire regulations in effect at the time and as set forth herein in Chapter II.

Section 2 Explanation of Rights of the Airport Owner Reserved

The County of Chesterfield, owner and sponsor of the Airport, reserves all rights and powers to adhere to all Federal and State laws, and all contracts it has entered into including, but not limited to, all Federal and State Grant Agreements with the FAA and Virginia Department of Aviation for funding of improvements to the Airport. The County also reserves the right to make changes and modifications to these Rules and Regulations, the Airport Master Plan or adopt such other reasonable requirements as the Airport Advisory Board may determine to be necessary and subsequently approved by the Board of Supervisors for the proper operation, maintenance and improvement of the Airport and its facilities at any time.

CHAPTER X

MISCELLANEOUS

Section 1 Severability

In the event that any provision of these Rules and Regulations shall for any reason be determined to be invalid, illegal or unenforceable in any respect, the other provisions of these Rules and Regulations shall remain in full force and effect.

Section 2 Effective Date

These Rules and Regulations shall be effective on July 1, 2011. The date of approval was June 15, 2011, by the County Board of Supervisors.

BIBLIOGRAPHY OF REFERENCE DOCUMENTS

Aeronautical Information Manual

Federal Air Regulations (FAR's)

Part 43 Maintenance, Preventive Maintenance, Rebuilding and Alteration

Part 91 General Operating and Flight Rules

Part 103 Ultra-light Vehicles

Part 105 Parachute Jumping

Part 135 Air Taxi Operators and Commercial Operators

Federal Aviation Agency Advisory Circular (AC)

103-6 Ultra-light Vehicle Operations, Airports, Air Traffic Control and Weather

103-7 The Ultra-light Vehicle

105-2C Sport Parachute Jumping

150/5190-5 Exclusive Rights and Minimum Standards for Commercial Aeronautical Activities

150/5230-4 Aircraft Fuel Storage, Handling and Dispensing On Airports

Federal Aviation Agency Order (FAAO)

National Fire Protection Association (NFPA)

NFPA 407 Aircraft Fuel Servicing

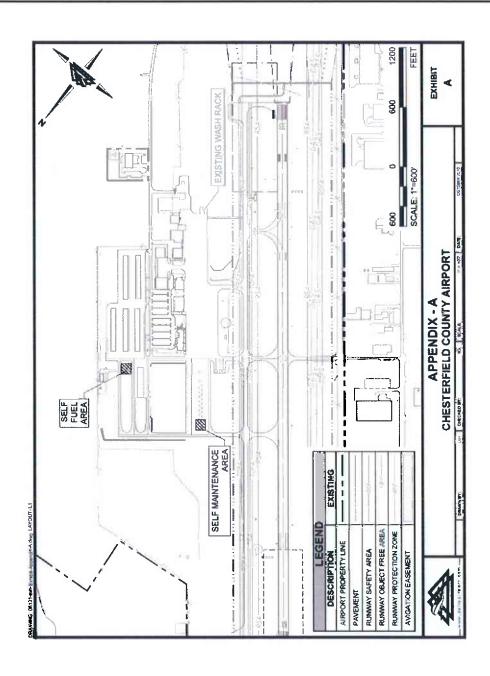
NFPA 409 Aircraft Hangars

NFPA 410 Aircraft Maintenance

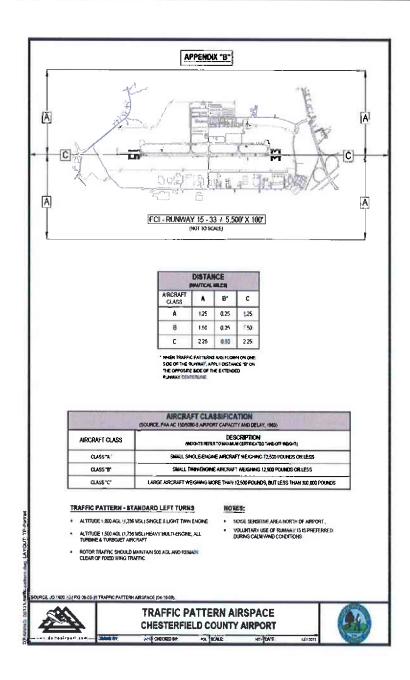
NFPA 415 Aircraft Fueling Ramp Drainage

NFPA424 GuidetoAirport/CommunityEmergencyPlanning

APPENDIX A: Airport Layout Plan for depiction of self maintenance, self fuel, and washrack.



APPENDIX B: Airport Traffic Pattern Map



APPENDIX C: Acknowledgment of Risk and Liability Agreement - Runway & Alpha Safety Area

ASSUMPTION OF RISK AND LIABILITY AGREEMENT RUNWAY SAFETY AREA

As an individual or a business involved in operations which I have described and attached requiring pedestrian activity within the runway and/or alpha taxiway safety area at the Chesterfield County Airport, I acknowledge that my involvement with such activity exposes me to risk of personal injury and property damage from other participants and users of the airport. The runway safety area is defined as a 500' wide area, measured 250' from the center on both sides of runway 15/33, extending the full length of the runway. The alpha taxiway safety area is defined as a 158' wide area, measured 79' from the center on both sides of alpha taxiway extending the full length of the taxiway. In consideration of being permitted to engage in such operation at the Airport, I assume all the risk and liability that may arise from such risks. To the extent legally possible, I agree (1) to indemnify and save harmless the County of Chesterfield, Virginia, its agencies, officers, employees and representatives (collectively, the "County"), all of the County's FBOs, their officers, director, agents and employees from and against any and all liabilities, damages, expenses, causes of action, suits, claims or judgments, and (2) to pay all attorneys fees, courts costs, and other costs incurred in defending any claims which may accrue against, be charged to, be recovered from or sought to be recovered from the County or any FBO, their officers, directors, agencies, agents, employees, representatives or officials by reason of or on account of damage to the property of, or the injury to, or death of, any person arising from my negligence or willful acts while involved in any aeronautical or non-aeronautical operation requiring pedestrian activity within the runway and/or alpha taxiway safety area.

APPENDIX D: ACCIDENT REPORTING FORM CHESTERFIELD COUNTY AIRPORT

In accordance with the accident reporting provisions of the Rules and Regulations governing the operation of the Chesterfield County Airport, it is mandatory to report any damage to public property and any injury requiring medical attention. Damage to privately-owned property located within the confines of the Airport is to be reported to the owner. The Airport Manager will help you with contacting the owner.

This form is for local Airport usage and does not replace the reporting requirements of NTSB-830 with regard to aircraft accidents and incidents. A copy of a Federal accident report may be submitted in lieu of this report.

ACCIDENT / INCIDENT REPORT FORM

CHESTERFIELD COUNTY AIRPORT

To: Airport Manager:	Date:
1) Name of Person:	Age:
Address:	
City State Zip Code	
Phone: (h)(w)(c)	
2) Date/Time incident occurred:	
3) Where did incident occur? (Exact location):	
4) Nature and extent of injuries:	,
5) Description of incident/accident (injuries):	
6) Name of doctor or hospital:	
7) Weather conditions:	
8) Kind of property and extent of damage (use reverse faircraft):	
9) Name of owner:	
Address:	
CityStateZip Code	
Phone: (h) (w) (c)	
10) Person(s) Notified:	
11) 911: Yes / No (If yes, circle a-c)	
 a) Fire Department on scene? Yes / No b) Police on s c) Ambulance on scene? Yes / No 12) Vehicle/Aircraft identification No. 	scene? Yes / No

Name of owner:				
Address:				
City				
Phone: (h)	(w	/) <u> </u>	(c)	
N Number (or tag	g & state):	Year:	Make:	
Model:	Seri	ial number:		
13) Vehicle/Aircr	aft identificatio	n no: (2)		
Name of owner:				
Address:				
City	State	Zip Code		
Phone: (h)	(w	·)	(c)	
N Number (or tag	g & state):	Year:	Make:	
Model:	Seri	ial number:		
13) Vehicle/Aircr	aft identificatio			
14) Name of Witr	ness:			
Address:				
City	State	Zip Code		
Phone: (h)	(w	")	_ (c)	
15) Name of Witr	iess:			
Address:				
City	State	Zip Code		
Phone: (h)	(w)	(c)	

16) Remarks or additional information:	
17) Prepared by: (Print):	
Signature:	
Date:	

Exhibit A
Building #7431

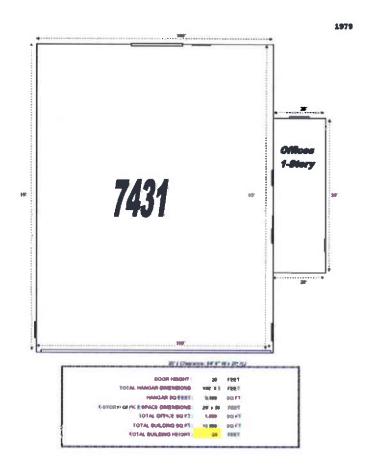


Exhibit B

Building #7417

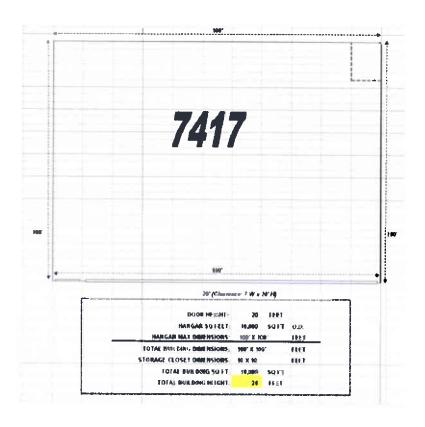


Exhibit C
Building #7501

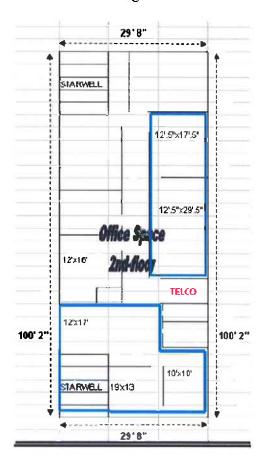


Exhibit D
Site Map for VaARNG

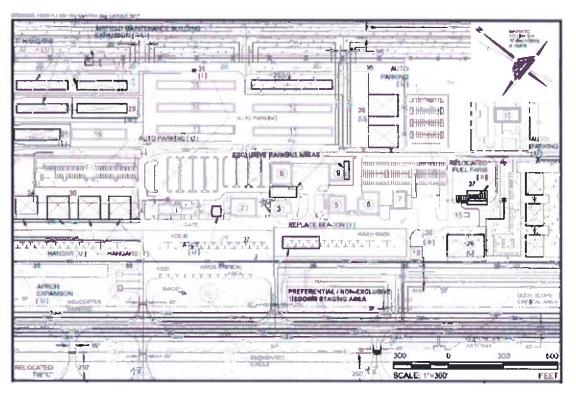


Exhibit E

Certificate of Lease Commencement

This Certificate of	f Lease Commencement, dated 20, is entered into by and
between	as Landlord, and the Commonwealth of Virginia, (Agency), as Tenant, the parties to a certain Deed of Lease (the "Lease")
	(Agency), as Tenant, the parties to a certain Deed of Lease (the "Lease")
demising certain premises (the "Premises") located in the City/County of, Virginia, which
are more fully described in s	aid Lease dated
The undersigned La	ndlord and Tenant do hereby declare and confirm that the Tenant has accepted the
shall commence on the	day of, 20, and agree that the Initial Term of the Lease day of, 20, and terminate on the day of,
20	
	hereby further confirm that the Premises containsquare feet, more or less,
of rentable floor area and the	at the annual rent shall be as specified in the Lease.
A 11 - 41	in the Fermi shall marries and an all 1 to 10 to 1 to 1 to 1 to 1 to 1
	in the Lease shall remain unchanged and in full force and effect [except that the (Section of the Lease) shall be deemed modified in accordance with, and to
comply with, the above agre	
comply with, the above agre	ca rease termj.
Tenant does hereby	declare and confirm that the work required by Landlord under the Lease has been
	accepted by Tenant and the undersigned do hereby declare and confirm that the
Lease is in full force and eff	ect.
I ANDI ODE	
LANDLORE	<u> </u>
	Ву:
	Title:
TENANT:	COMMONWEALTH OF VIRGINIA
	(Agency)
	D
	By: Title:
	THE.

Exhibit F

Subordination and Non-Disturbance Agreement

	ANCE AND ATTORNMENT AGREEMENT is dated, 20 by and between der"),, a ("Landlord")
and the COMMONWEALTH OF VIRGIN	ider"), ("Landlord") A, DEPARTMENT OF GENERAL SERVICES ("Tenant").
	e "Lease"), dated, 20, Landlord demised certain property described as Premises") to the Tenant;
WHEREAS, Lender is secured by a part (the "Property"), described in Exhibit	a Deed Of Trust (the "Deed of Trust") upon certain property, of which the Premises forms A, which exhibit is attached hereto and made a part hereof; and,
	d that Tenant execute a subordination and attornment agreement and Tenant has agreed provided with certain assurances that its tenancy under the Lease will not be disturbed.
NOW, THEREFORE, for and in of follows:	consideration of the respective and mutual agreements herein set forth the parties agree as
provided for in the Lease and otherwise co	at as long as Tenant or its lawful successors or assigns shall continue to pay the rent as emply with the terms and provisions thereof, neither Lender nor its successors or assigns its quiet possession of the Premises during the term of the Lease, including any extensions the Lease.
Lender further agrees that the lien which Tenant, under the terms of the Lease	of the Deed of Trust shall not cover any of Tenant's fixtures, alterations or improvements is permitted to remove from the Premises.
tenancy shall not be disturbed nor shall the event of a foreclosure or other enforcement of which the Premises form a part, and reconditions of the Lease for the remainder oprovided that such purchaser shall then be expected.	the Lease shall be subordinated to the lien of the Deed of Trust provided that Tenant's Lease be affected by any default under the Deed of Trust. Tenant further agrees that, in the of the Deed of Trust, or sale in lieu thereof, it will attorn to any purchaser of the Property cognize such purchaser as Landlord under the Lease upon the then executory terms and of its term, including any extensions or renewals thereof based on the terms of the Lease, ntitled to possession of the Premises subject to the provisions of the Lease. ties have affixed their signatures and seals.
	the have all her digitalities and begin.
LENDER:	
	By: Name: Title
CITY/COUNTY OF	An artifer
	-Disturbance and Attornment Agreement was acknowledged before me on the day of l, by, as, of
, 200_ in the jurisdiction aloresals [Name	
My commission expires:Registration #	

			Notary Pu	blic			
LANDLORD;					,		
	By:				-		
COMMONWEALTH OF VIRGINIA CITY/COUNTY OF		_, to wit:					
The foregoing Subordination, No, 200_ in the jurisdiction at							
(name	of Land	ilord), a			_, on b	ehalf of the	partnership/
corporation/limited liability company .							
My commission expires: Registration #	_						
			Notary Pu	blic		-	
TENANT:			OF VIRGINIA GENERAL SEI				
	Ву:	Director			-		
COMMONWEALTH OF VIRGINIA CITY/COUNTY OF	·	_, to wit:					
The foregoing Subordination, No, 200_ in the jurisdiction aforesai					_		
Department of General Services.							
My commission expires: Registration #	-	-					
			Notary Pu	blic		=	

Exhibit G

IT Network Improvements for Buildings #7501 and #7417

Blue lines indicate boundaries of leased space, All office doors should be keyed separately with at least 2 keys provided for each lockset plus 1 master key for all associated doors in each building.

Current IT and phone drop locations are unknown and may be substituted for locations indicated if all other requirements below can be satisfied. Nine (9) each duplex IT and phone drop locations in the office areas, plus seven (7) IT and two (2) phone drop locations in the hangar areas are required. Generally, these duplex outlets should be spaced every 15ft in large rooms, or 2 per office or smaller areas. Each drop includes all outlets, boxes, cabling and patch panels complete to CAT-6 standard with home-runs to the Telco closet indicated above. VaARNG Cable color convention is blue for data and grey for voice. Telco needs access to a minimum of 6 strands of single-mode fiber terminated with SC ends run between all buildings associated with this option. The fiber also needs to be run to the Fire Station where the Verizon TLS (Canoga Perkins equipment) circuit terminates. We will connect to our VaARNG Metro-LAN backbone that already exists in Richmond from this location. Telco closet must be able to be climate controlled to 75 degrees or below and be able to maintain 25-75% humidity. Telco closet must have separately keyed deadbolt lock as well as access to the airport IT trunk line.

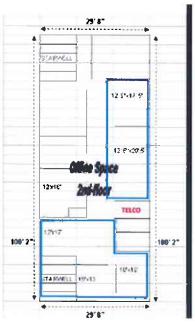
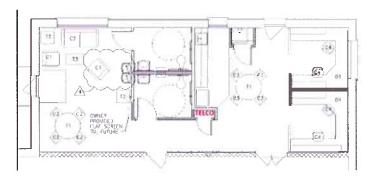


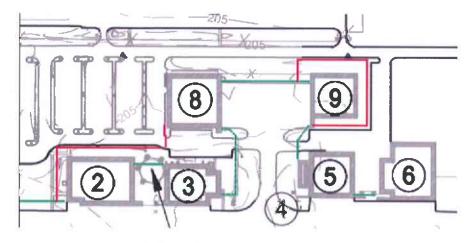
Exhibit H

IT Network Improvements for Building #7431



Current IT and phone drop locations are unknown and may be substituted for locations indicated if all other requirements below can be satisfied. Nine (9) each duplex IT and phone drop locations in the office areas, plus seven (7) IT and two (2) phone drop locations in the hangar areas are required. Generally, these duplex outlets should be spaced every 15ft in large rooms, or 2 per office or smaller areas. Each drop includes all outlets, boxes, cabling and patch panels complete to CAT-6 standard with home-runs to the Telco closet indicated above. VaARNG Cable color convention is blue for data and grey for voice. Telco needs access to a minimum of 6 strands of single-mode fiber terminated with SC ends run between all buildings associated with this option. The fiber also needs to be run to the Fire Station where the Verizon TLS (Canoga Perkins equipment) circuit terminates. We will connect to our VaARNG Metro-LAN backbone that already exists in Richmond from this location. Telco closet must be able to be climate controlled to 75 degrees or below and be able to maintain 25-75% humidity. Telco closet must have separately keyed deadbolt lock as well as access to the airport IT trunk line.

Exhibit I Force Protection Requirements



Buildings #7431, #7417 and #7501 (Shown as 3, 9 and 2 respectively above)

- Solid RED line indicates new perimeter security fencing
 Dashed RED line indicates a new key-card controlled vehicle-access rolling gate
 Solid GREEN lines indicate existing fences
- Dashed GREEN lines indicate existing fences and gates to be removed or re-located

Exhibit J

Janitorial Specifications

ENTRANCES, LOBBIES AND HALLS

A. DAILY - MONDAY - FRIDAY

- 1. All waste receptacles emptied, cleaned, liners replaced as necessary and trash placed in designated areas. Outside cigarette receptacles emptied and wiped out
- 2. Prepare all waste for removal and place in dumpster provided by the county
- 3. Glass in all entrance ways to be cleaned including door glass, glass partitions and trim
- 4. Vacuum all carpeted areas, including walk-off mats
- 5. Wash and sanitize all water fountains with lint free cotton or wool cloth
- 6. Hand prints, smudges, etc., are to be removed from walls, woodwork, door jambs and knobs and wall switches as needed
- 7. Upon completion of work, extinguish all lights and close and secure all doors and windows
- 8. Clean and disinfect front lobby desks

B. WEEKLY

- 1. Spot clean carpeting
- 2. Dust Venetian blinds
- 3. Polish metal trim
- 4. Feather dust all light coverings
- 5. Dust all vertical and horizontal furniture surfaces, wall vents and vertical wall trim

C. SEMI-ANNUAL

1. Vacuum and dust all high areas including lights and fixtures, windowsills, and surface areas over doorways

TENANT SPACES, CONFERENCE/MEETING ROOMS

A. DAILY - MONDAY - FRIDAY

- 1. Empty all waste receptacles. Replace liners as necessary. Damp wipe to remove soil
- 2. Dust cleared areas of furniture and table tops, vacant shelves, sills, ledges, horizontal partitions surfaces, moldings, picture frames, file cabinets, bookcases and other office furniture
- 3. Clean all glass in doors
- 4. Spot clean doors and walls
- 5. Dust and damp mop all hard surfaced floors
- 6. Scrub and wax all hard surfaced floors as needed
- 7. Vacuum all carpeted floors
- 8. Dust cubicle partitions (tops and shelves)

B. WEEKLY

- 1. Spot clean all carpeted floors
- 2. Clean/polish metal trim
- 3. Dust Venetian blinds as needed
- 4. Dust empty book shelves (libraries)

C. MONTHLY

- 1. Machine buff tile and linoleum floors
- 2. Dust all pictures, frames, charts, graphs and light fixtures not reached in daily dusting
- 3. Feather dust fluorescent fixtures and vents

RESTROOMS/SHOWERS/LOCKER ROOMS

A. DAILY - MONDAY - FRIDAY

- 1. Empty waste containers and remove trash
- 2. Thoroughly sweep floors
- 3. Damp mop and rinse floors with disinfectant detergent
- 4. Supply paper towels, toilet tissue, sanitary napkins and soap as needed
- 5. Thoroughly clean and sanitize all sinks, shelves, counter tops, hardware, partition walls, urinals, showers and toilet seats (both sides)
- 6. Faucets, handles, fittings and supply pipes are to be kept clean and shiny

B. WEEKLY

- 1. Clean underside of basins
- 2. Clean all hardware underneath basins
- 3. Feather dust fluorescent fixtures and vents

C. MONTHLY

- 1. Machine scrub and sanitize all floors. Maintain floor sealant if appropriate.
- 2. All tile walls washed and sanitized

OUTSIDE

A. DAILY – MONDAY - FRIDAY

1. Empty trash cans in parking lot, replace liners as needed and put trash in designated areas

FLOORS

A. SEMI-ANNUAL

1. All areas of carpets to be shampooed semi-annually

- 2. All tile/vinyl shall be stripped and waxed semi-annually
- B. PER REQUEST
- 1. Spot clean carpets and tile/vinyl in areas as identified per request

Exhibit K

Chesterfield Airport Snow and Ice Control Plan REVISED November 1, 2012

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OVERVIEW

- A. This snow and ice control plan includes instructions and procedures for:
 - 1. Prompt removal or control, as completely as practical, of snow, ice, and slush on each movement area;
 - 2. Positioning snow off of movement area surfaces so that all aircraft propellers, engine pods, rotors, and wingtips will clear any snowdrift and snow bank as the aircraft=s landing gear traverses any full strength portion of the movement area;
 - 3. Selection and application of approved materials for snow and ice control to ensure that they adhere to snow and ice sufficiently to minimize engine ingestion;
 - 4. Timely commencement of snow and ice control operations; and
 - 5. Notice to Airmen (NOTAMs)
- B. FAA Advisory Circulars in the 150 series contain standards for snow and ice control equipment, materials, and procedures for snow and ice control which are acceptable to the Administrator

SNOW AND ICE CONTROL PLAN

The purpose of this plan is to define the procedures in use at the Chesterfield County Airport for the safe and prompt removal or control of snow and ice from runways, taxiways, ramps, roadways, and other areas that might be affected by measurable snow and ice accumulation.

Snowfall at Chesterfield County Airport averages over 16.3 inches annually. Snow removal activities at Chesterfield County Airport have been expanded in scope commensurate with the increase in air traffic, tenant aircraft, and the expansion of facilities. This increased activity places additional reliance on the coordinated

efforts between Dominion Aviation Service and Chesterfield County Airport. This plan is designed to provide overall direction for the safe and prompt removal or control of snow and ice.

Based on an evaluation conducted by the Airport Manager or Facility Maintenance Supervisor of the existing field conditions and the weather forecast, snow removal operations will be initiated when snow begins to accumulate on the movement surfaces. At a minimum, snow removal will begin on the runways if there is one-half inch of slush or two inches of dry snow on the runway surfaces.

All snow operation information can be obtained through the snow phone 743-0771 at the airport administration office.

RESPONSIBILITES

A. The Chesterfield County Airport is responsible for providing snow and ice control in the following areas:

1. Air Side

a. Runways, taxiways, and ramp areas. It is generally understood that the ramp areas and taxiways within close proximity (five to ten feet) to aircraft hangars are the responsibility of the tenant.

Land Side

- a. All public roadways within the boundaries of the Chesterfield County Airport.
- b. Fire Station #15 Driveways.
- c. Public and joint use employee parking lots.
- d. Terminal area public use sidewalks.
- B. The Chesterfield County Airport Manager or his designated representative is responsible to promptly issue a Notice to Airmen when the following conditions exist:
 - 1. Snow
 - 2. Snow piled or drifted

- 3. Ice
- 4. Slush
- 5. Large areas of standing water
- 6. Any area that is less than satisfactorily cleared for safe operations.

3. News Releases:

It shall be the responsibility of the Airport Manager to issue all news bulletins relating to all snow removal activities. All requests for such information shall be directed to his attention. In his absence, all such requests shall be relayed to the County Airport Facility Maintenance Supervisor.

- 4. Runways and taxiways will be inspected by the Airport Manager, or Facility Maintenance Supervisor prior to opening the surfaces for use. A condition report will be available from the airport administration office or the FBO front desk.
- 5. Once snow removal operations have commenced, all other vehicles and taxiing aircraft will yield to the snow removal equipment except during emergencies involving aircraft or emergency equipment.

C. Training:

All county airport personnel will be given the appropriate training prior to participating in snow and ice control procedures. Each employee will participate in at least one ride along and one supervised plowing operation prior to being authorized to operate the equipment by themselves.

D. Owners Responsibility:

Owners of aircraft or persons having care and custody of such aircraft shall be responsible for the removal of all snow and ice within the confines of the turning radii of all aircraft parked on the main Apron, FBO ramp, terminal ramp or any other areas normally used for aircraft parking.

E. Tenant Responsibility:

While the Chesterfield County Airport shall assume responsibility for snow removal from all runways and taxiways, the main apron, FBO ramp, terminal ramp, public road system, public parking areas,

terminal area sidewalks, steps, and walkways; each airport tenant is cautioned to read their lease in order to ascertain exactly what the tenant's responsibility for snow removal might be. The county will not undertake to remove snow/ice in any area which is exclusively the responsibility of the tenant to clear.

REMOVAL PRIORITIES AND PROCEDURES

A. Priorities for snow removal are as follows. (Reference Attachment A)

- 1. Runway 15/33 / Taxiway Alpha
- 2. Taxiway B, C & E
- 3. State Police Helicopter Ramp
- 4. Hold Aprons
- 5. Fire Station #15 Driveway
- 6. Ramp Area
- 7. Airfield Drive/Main Parking lot loop
- 8. T-Hanger Area
- Parking Lots/Public Use Sidewalks

B.. Runway 15/33 and Taxiway AA@:

Snow plows will be used for snow removal operations on runway 15/33. Snow removal will begin on Runway 33 and will continue up and down the runway working from the centerline toward the runway edges. Upon completion of snow removal operations on runway 15/33, plows will commence clearing Taxiway A, beginning at either approach end of runway 15 or 33 and working from the center of the taxiway outward to the taxiway edge. In clearing snow from the Runway 15/33 and Taxiway A care must be exercised to avoid creating snow ridges in the critical area of the I.L.S. serving runway 33. Additionally, extreme care must be exercised to avoid the creation of snow ridges which might block aircraft access to the runway and taxiway from the ramps, fixed base area, or other taxiways.

Airport operations shall cease on Runway 15/33 during snow removal activities. It will be necessary to exercise extreme care to insure that all snow removal equipment exits the runway before it is reopened.

Aircraft operations will continue until it has been determined by the Airport Manager that snow and/or slush accumulations exceed those limits tolerable by the corporate flight departments of the Chesterfield County Airport. Upon such determination, the Airport Manager shall issue an appropriate NOTAM closing the Runway for the length of time required to correct or eliminate such conditions.

C. <u>Taxiway B, C and E:</u>

Upon the completion of the snow removal operations on Runway 15/33 and Taxiway A, snow removal operations will commence on Taxiways B, C and E.

D. State Police Helicopter Ramp:

Upon the completion of the snow removal operations on Taxiways B, C and E, snow removal operations on the State Police helicopter ramp will commence. Snow should be pushed from the hangar to the edge of the south west ramp and extreme care must be exercised to avoid the creation of snow ridges which might block aircraft access to the taxiway from the ramp.

E. Hold Aprons:

Upon the completion of the snow removal operations on the State Police helicopter ramp, snow removal operations on the hold aprons will commence. Extreme care must be exercised to avoid the creation of snow ridges. Snow must be plowed clear of all pavement surfaces in the hold apron area.

F. Fire Station #15 Driveway:

Upon the completion of the snow removal operations on the hold aprons, snow removal operations for Fire Station 15 will commence. Snow will be pushed from the Fire Station garage doors out to the driveway and then across Airfield Drive.

G. Ramp Area:

Upon the completion of the snow removal operations at Fire Station 15, snow removal on the ramp area will commence. Snow removal on the ramp area in front of the terminal will start by clearing the area between the tie down rows and the main parking area in front of the terminal. Extreme care must be exercised to avoid the creation of snow ridges which might block aircraft access to the taxiway from the ramp.

H.. Airfield Drive/Main Parking Lot Loop:

Upon completion of snow removal operations on the ramp area, snow removal operations for Airfield Drive and the main parking lot loop will commence. Snow removal on Airfield Drive will extend out to White Pine Road.

I. T-Hanger Area:

Upon the completion of the snow removal operations on Airfield Drive and the main parking lot loop, snow removal operations at the t-hangar area will commence. Snow on the out side hangars will be pushed over to the grass. The snow on the inside hangar rows will be pushed from taxiway C to the end of the hangar row. Extreme care must be exercised to avoid the creation of snow ridges which might block aircraft access to the taxiway from hangar area.

J. Parking Lots/Public Use Sidewalks:

Upon the completion of the snow removal operations at the t-hangar area, snow removal operations in the parking lot and public use sidewalks will commence. The Airport Manager or his designated representative will assign equipment as they deem appropriate to maintain the road system in serviceable condition. As suitable equipment becomes available (front end loaders and dump trucks), this equipment will be assigned for the task of removing snow accumulations from the main terminal public parking area. Upon completion of these areas, the operation will proceed to the secondary parking areas. In the event of the formation of ice on the terminal building sidewalks, crossing lanes, steps,

or ramps, the Facility Maintenance Department shall distribute sand or chemical deicers in the affected areas.

SNOW PLOW PROCEDURES

A. Reporting Format

- 1. All condition reports will be given upon request.
- 2. Actual existing conditions will be reported.
- 3. The FBO corporate tenants and other tenants, who wish to personally inspect the runway, may use any measuring method they choose.
- 4. All requests to inspect the runway shall be made through the Airport Administration Office or the Airport Manager.

B. Plowing Operations-Sequence

- 1. The Airport Manager or his designated representative will notify appropriate personnel of forecasted conditions.
- 2. Snow removal crews are placed on alert status when the possibility of snow accumulation is significant.
- 3. When possible, crews will be activated in sufficient time so as to begin removal activities prior to the snow becoming a hazard to aircraft.
- 4. FBO will be contacted by the Airport Manager when a set time to begin plowing has been established. The intended runway closure time and the estimated duration of plowing will be made by the Airport Manager or the Facility Maintenance Supervisor and reported to the FBO's front desk personnel.

- 5. The Airport Manager and/or Facility Maintenance Supervisor will be on duty when snow removal is in progress. The Airport Manager or his designated representative has the responsibility for the snow removal team while they are operating on any aircraft movement area. All vehicles shall be equipped with two-way radios for communication with Unicom and/or vehicle-to-vehicle. Coordination and communication is further enhanced when necessary by the Airport Manager.
- 6. Progress reports on the plowing operations will be given via the snow phone at upon request.
- C. All other ramp area tenants should move snow so as to facilitate their operations. Snow removal activities by a tenant must be coordinated with the Airport Manager prior to beginning removal.
- D. Snow shall not be plowed as to cause an unsafe condition or obstruction to other tenants or airport operations. When practical, the snow between the edge lighting and the edge of stabilized shoulders should be removed or reduced to enhance lighting visibility.
- E. Coordination between the airport and tenants will be handled through the Airport Administration Office and its assigned personnel, including the Airport Manager.

MATERIALS, CHEMICALS AND EQUIPMENT

- A. All materials, chemicals and equipment will meet the Federal Aviation Administration Advisory Circulars criteria (completely as practical) pertaining to snow and ice control.
- B. If used, application rates will be applied to satisfy all safety concerns and minimize engine ingestion

EMERGENCY OPERATIONS

A. <u>Aircraft In-Flight Emergencies</u>

- 1. The pilot-in-command reporting an in-flight emergency will have priority regardless of plowing operations. If a runway is not plowed full length and full width, the Airport Unicom and FBO personnel will be advised of the condition of the runway at a time the aircraft is expected to arrive at Chesterfield County Airport. Immediate action will be taken to accommodate any such emergencies.
- 2. If the runway cannot be cleared by the estimated arrival time and the aircraft pilot-in-command wants it cleared, Airport Operations will be advised immediately and an estimate will be provided on the amount of time it will take to clear the runway for landing.
- 3. In the event of an in flight emergency, without prior notification or any time an aircraft is visible in the airport traffic pattern, all snow removal equipment will clear the runway as soon as possible.

B. Aircraft Ground Emergency

- If adverse weather reduces ground visibility to the point that taxiing aircraft cannot determine direction to and from runways, taxiways, or ramps, Airport Operations will be available to assist in leading and directing aircraft, as conditions permit.
- Other ground emergencies such as aircraft missing taxiways or stuck in snow, etc., will be handled on a case-by-case basis and kept informed via the snow phone.
- C. All other ramp area tenants should move snow so as to facilitate their operations. Snow removal activities by a tenant must be coordinated with the Airport Manager prior to beginning removal.

- D. Snow shall not be plowed as to cause an unsafe condition or obstruction to other tenants or airport operations. When practical, the snow between the edge lighting and the edge of stabilized shoulders should be removed or reduced to enhance lighting visibility.
- F. Coordination between the airport and tenants will be handled through the Airport Administration Office and its assigned personnel, including the Airport Manager.

SNOW REMOVAL EQUIPMENT

- 1 1999 Dodge 4x4 Pick-up with 8' Myers plow
- 1 2011 Ford 4x4 Pick-up with 8' Air Flow plow
- 1 1997 International Dump truck with 11'Good Roads plow
- 1 1994 Ford 4x4 Tractor with 1995 8' Woods front end loader
- 1 2008 International Truck with 10' Good Roads plow
- 1 1998 Toro Snow Blower

SNOW REMOVAL TEAM

Thomas Trudeau	Airport Manager	Airport Home Cell	743-0771 739-391 929-6859
Jeremy E Wilkinson	Facilities Maintenance Supervisor	Airport Home Cell	743-0771 739-3667 339-2599
James W. Edmiston	Airport Technician	Home Cell	739-2103 814-7565
Christopher Verlander	Airport Technician	Home Cell	520-4677 314-3653

LETTER OF AGREEMENT

EFFECTIVE DATE:

November 1, 2012

SUBJECT: SNOW REMOVAL OPERATIONS COORDINATION AND RESPONSIBILITIES

- A. <u>PURPOSE</u>. To establish responsibilities for coordination of snow removal operations
- B. <u>SCOPE.</u> This agreement between Chesterfield County, hereafter referred to as FCI, and Dominion Aviation Services, hereafter referred to as DAS, is to be used during periods involving snow removal operations.
- C. <u>RESPONSIBILITIES</u>. FCI shall be responsible for implementing the coordination contained herein as necessary for snow removal operations. DAS shall provide personnel who are on duty and otherwise available, as reasonably requested by the county, to assist with snow removal at the Airport.

1. Snow Removal Operation.

- a. Whenever possible, FCI Management shall coordinate all snow removal operations at least thirty (30) minutes prior to the start of snow removal operations.
- b. FCI personnel and DAS personnel shall hold an after action meeting within 72 hours following a snow removal operation, or upon the request of either party.

2. Runway and Taxiway Closure Coordination.

- a. FCI Airport Manager shall provide DAS with an estimate of the length of closure at the time of coordination for the closure,
- b. FCI Airport Manager or his designated representative shall advise DAS at least thirty (30) minutes prior to the estimated time of reopening. If they

cannot open the runway/taxiway within the estimated time, a new estimate will be provided to DAS as soon as determined.

- All questions regarding the opening or closing of the runway shall be directed to FCI Airport Manager only.
- d. FCI Airport Manager shall coordinate with the DAS Manager or his/her designated representative in person or by phone at 271-7793.

3. Runway and Taxiway Conditions.

- a. Airport Manager or his designated representative shall advise DAS of the runway/taxiway condition upon reopening. Initial braking action reports shall be provided by qualified FCI personnel using a vehicle equipped with a standard braking system (vehicles with anti-lock brakes are not to be used).
- b. DAS shall advise FCI Airport Manager of the braking action reports from the first three arrivals after a runway is reopened.

4. Braking Action Reports.

- a. Braking action is a report of conditions on the airport movement area providing a pilot with a degree/quality of braking that he might expect.
 Braking action is reported in terms of good, fair, poor or nil.
- b. For NOTAM purposes, braking action reports are classified according to the most critical term used. Reports containing the term "fair" (BA FAIR) are classified as NOTAM (L). Reports containing the terms "poor" (BA POOR) or "nil" (BA NIL) are classified as a NOTAM (D). When the conditions are good no report will be given.

The definition for fair, poor or nil are left up to pilot interpretation at the time the report is given. A formal definition for these terms does not exist and may vary based upon pilot experience and severity of weather conditions at the time of the report

5. Poor Braking Action

a. DAS shall advise FCI Airport Manager within 15 minutes after receiving notices of poor braking action.

6. NIL Braking Action

- DAS shall advise FCI Airport Manager immediately after receiving a NIL braking action report.
- A "Critical Runway Inspection" shall be requested by the FCI Airport
 Manager immediately after receiving a NIL report.
- c. FCI Airport Manager shall advise DAS of the status of the runway after the inspection.
- d. Upon receiving two (2) NIL aircraft braking action reports in succession, the FCI Airport Manager shall close the runway except for a declared emergency.

NOTIFICATION PROCEDURES

- A. <u>PURPOSE</u> To provide procedures for the distribution of "Snow Removal Notice to Airmen" (SNOWTAM) information on runway closures during snow removal operations.
- B. SCOPE. The procedures outlined herein are for use in NOTAM "SNOWTAM" dissemination of runway closures during snow removal operations and pertain only to FCI.

C. **RESPONSIBILITIES:**

 Chesterfield County Airport Operations: The Airport Manager or his designated representative is responsible for notification to Lockheed Martin FSS for NOTAM/dissemination and cancellation when conditions warrant closing and opening runways, or taxiways for snow removal operations.

 Leesburg: The AFSS Area Supervisor or Controller-in-Charge is responsible for formatting/logging and disseminating the NOTAM information in accordance with applicable handbooks.

D. **PROCEDURES**:

 AFSS Notification: Chesterfield County Airport Manager or his designated representative will notify Lockheed Martin FSS of runway closures and openings due to snow removal operations for the issuance and cancellation of a NOTAM.

2. <u>NOTAM Dissemination</u>: The Lockheed Martin AFSS Supervisor on duty will disseminate a NOTAM on the runway closure based on anticipated length of time for each closure.

3. When runways are closed, a NOTAM will be issued and canceled when appropriate.

Example: FCI RNWY 15/33 CLSD

E. <u>NOTAM Cancellations</u>: Upon notification from airport operations that a specific hazard or condition is no longer in effect an authorized airport representative shall call Lockheed Martin FSS NOTAM desk to cancel NOTAM.

RUNWAY OPERATIONS

Snow, ice, slush, and standing water impede aircraft acceleration and on aircraft movement surfaces can also degrade the coefficient of friction and reduce aircraft braking and directional control. Although acceptable limits vary by aircraft, most jet aircraft flight manuals limit the aircraft to LANDING with one (1) inch or more of slush or standing water on the runway. AC 91-6A provides additional information concerning the operation of turbojet aircraft when water, slush and snow are on the runway.

COEFFICIENT OF FRICTION

The ratio of the tangential force needed to maintain uniform relative motion between two contacting surfaces (aircraft tires to the pavement surface) to the perpendicular force holding them in contact (distributed aircraft weight to the aircraft tire area) is calculated as a coefficient often denoted by the Greek letter MU. It is a simple means used to quantify the relative slipperiness of pavement surfaces. Friction values range from 0 to 100 where zero is the lowest friction value and 100 is the maximum value obtainable. Chesterfield County Airport does not process the necessary equipment to calculate MU value.

A complete weather forecast shall be obtained by the Airport Manager or the Facilities Maintenance Supervisor from the National Weather Service by calling 1-757-899-4200 prior to the expectation of snow. The following information should be obtained:

- 1. Type of storm predicted ie: wet or dry snow or freezing rain
- 2. When they predict it will arrive in the area
- 3. How much accumulation will occur
- 4. How long they think the storm will last

SNOW CREWS

During the week (Monday – Friday) the airport has four snow removal personnel working from 0630-1500. If a storm occurs during mid-day all snow personnel will stay over until mid-night.

On weekends, if snow is predicted, the snow removal crew and equipment will be put on standby status.

START OF SNOW REMOVAL OPERATIONS

Once snow removal operations starts, the Airport Manager or Facility Maintenance Supervisor will supervise all snow removal operations.

The person in charge on the airfield is referred to as Snow Command. The Unicom and all maintenance personnel will contact Snow Command when they have any requests. The On-Airfield Manager will remain with the snow removal equipment; responsibilities include, the closing and opening of runways-taxiways, coordination with FSS, ensuring the runways-taxiways are in a safe operating condition.

SNOW DESK MANAGER RESPONSIBILITIES

The snow des	k manager (FCI Airport Manager or his Designee) will ensure that all the proper
NOTAMS are	e issued:
	NOTAM's "Snowtam"
	Field condition reports
	Braking Action Report or NOTAM issued if Surface Braking action is inadequate
	Closure of runways-taxiways for any period of time
Special report	s should be reported to Airport users when:
	There is significant change in the runway surface because of snow or ice
conditions	
	A runway is closed or scheduled to close for testing of snow or ice removal or
treatment	

Any other condition exists or changes occur which may affect operational safety of the airport

Pavement condition reports should identify the runway, the time of measurement and the contaminant conditions. Wet snow, dry snow, slush, ice, deicing chemicals. Once snow desk personnel have all the information from the Snow Removal Manager all the information will be relayed to the airport users by the operations snow phone.

SITES FOR DUMPING SNOW FROM PARKING LOT -HAULING

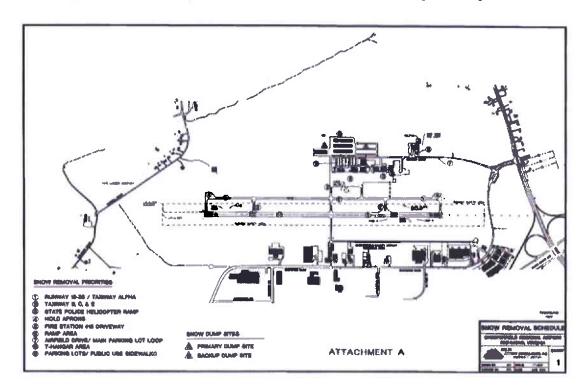
- A. When hauling snow from the Ramp and Parking Lot becomes necessary, trucks will haul the snow to site A (reference attachment A). If site A cannot be used, site B (reference attachment A) will be the alternate dump site.
- B. When hauling snow from the parking lots becomes necessary, all dump trucks will use the B site or the B site as an alternate.

USE OF ANTI-ICE MATERIAL

Since the County is currently not equipped with the materials or the proper equipment to distribute or apply anti-ice or deicer to the runway pavement surfaces, this service is not currently provided at the Chesterfield County Airport. The County shall provide and distribute deicer for pedestrian sidewalks accessing the terminal area.

EXCEPTIONS TO THE PLAN

All questions regarding an exception to this plan, aircraft departures from a closed runway and the opening or closing of the runway shall be directed to FCI Airport Manager. In the absence of the Airport Manager all questions shall be directed to his designated representative.



ENVIRONMENTAL CONDITION OF PROPERTY REPORT

Phase I Environmental Site Assessment

for the

Proposed VAARNG Aviation Detachment Office/Hangar Space Chesterfield County Airport

Prepared for: Department of Military Affairs NGVA-FMO-ENV Blackstone, VA 23824

Prepared By: EEE Consulting, Inc. 8525 Bell Creek Road Mechanicsville, VA 23116 804-442-3330

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13-044 2 May 2013

1.0 EXECUTIVE SUMMARY

This report presents the process and findings of a Phase I Environmental Site Assessment (ESA) for portions of three buildings and associated parking areas (herein referred to as "the Site") located at the Chesterfield County Airport in Chesterfield, VA. The Virginia Army National Guard (VAARNG) proposes to lease the Site to serve as the location for a planned aviation detachment (2nd Battalion, 135th Aviation Battalion). In response to the proposed lease, EEE Consulting, Inc. (EEE) was contracted by the Virginia Department of Military Affairs (DMA) to conduct a review of the Site and prepare an Environmental Condition of Property (ECOP) Report.

The objective of the Phase I ESA is to conduct all appropriate inquiries (AAI) into the previous ownership and uses of the property consistent with good commercial or customary practice as defined in the Comprehensive *Environmental Response, Compensation, and Liability Act* (CERCLA), 42 USC Section 9601(35)(B), and as identified in ASTM E1527-05. The Phase I ESA is intended to permit the user to satisfy the requirements to qualify for one of the landowner liability protections (LLPs). The ESA was performed to collect reliable information regarding the environmental condition of the Site to determine its suitability for transfer and to meet US Army Regulation (AR) 200-1, Environmental Protection and Enhancement.

Available public information including historical topographic maps and aerial photographs, deed records, and documents on file with federal, state, and local regulatory agencies was compiled and reviewed to meet the project objective. EEE personnel also conducted interviews with persons familiar with the site.

The Site is located within Chesterfield County Airport (FCI, near the interchange of Route 10 and Route 288 (Figures 1 and 2) and consists of Buildings 7501, 7431 and 7417 and two associated parking areas. Prior to development in the early 1970's, the Site was undeveloped. Current land use for adjacent properties includes light industrial to the west, Route 10 to the south, undeveloped forest land to the east, and residential areas to the north. Figures 1 through 4 depict the location of the Site, the approximate property boundary, and surrounding topographic features.

Based on the information reviewed for the Site, no *Recognized Environmental Conditions* (*RECs*) as defined in ASTM E1527-05 were identified for the project area. Based on the available site information for the subject Site and adjacent properties and in accordance with DoD specifications, the site is considered to have LOW potential risk for environmental concerns.

The Army National Guard ECOP Handbook Phase I ESA specifications require that an ESA also include information regarding asbestos containing materials (ACM), lead-based paint (LBP) and radon. Buildings 7501 and 7431 were constructed in the 1970s and may contain ACM or LBP. A previous survey indicated asbestos floor tile is present in Building 7501. Building 7417 was constructed in 2005 and therefore is less likely to contain ACM or LBP. Chesterfield County is in the process of conducting ACM surveys at the entire airport facility. Any renovations to the Site will be managed by the County. To date, no LBP survey has been conducted at the Site.

13-044 3 May 2013

The EPA Map of Radon Zones for Chesterfield County, Virginia indicates that the county lies within the high priority zone, Zone 1, which has a predicted average indoor radon screening level greater than the EPA's recommended maximum allowable exposure level of 4.0 pCi/L.

As part of the Phase I ESA, EEE reviewed public records from the Chesterfield County Circuit Court Clerk's office to determine if there were any institutional controls, activity use limitations or environmental liens imposed on the Site. No restrictions were noted in the reviewed documents. The records were also reviewed to determine past uses of the property that would suggest potential petroleum releases at the Site. None of the records reviewed indicated historical use or storage of petroleum products at the Site.

According to the zoning map provided by the Planning and GIS Department of Chesterfield County, the entire airport property, including the Site, is zoned for light industrial (I-1). Adjacent property to the west is also zoned light industrial (I-1). Adjacent properties to the north and east are zoned for agriculture (A). Residential areas (R-15 and R-7) are located further north and east (Figure 7).

EEE reviewed a database records search report generated by Environmental Database Research (EDR) (Appendix C). The EDR report, dated March 12, 2013, indicated one Virginia Department of Environmental Quality (DEQ) Leaking Underground Storage Tank (LUST) site located within ½ mile of the Site. EEE personnel reviewed file data for the LUST Pollution Complaints (PCs) to determine if the contaminants pose a significant risk to impact the Site.

The nearest LUST site (PC#07-4610), owned by Frito Lay Sales Distribution, is located at 8010 Whitebark Terrace. Based on topography, it is likely that groundwater from the Frito Lay property is flowing in the general direction of the Site. However, the USTs have been removed from the site and DEQ has closed the PC file. Remaining contamination from this release is not expected to impact the Site.

EEE has performed this Phase I ESA of the subject property, in conformance with the scope and limitations of American Society for Testing and Materials (ASTM) Standard E-1527-05 and the EPA All Appropriate Inquiries (AAI) Rule. This Phase I ESA was also performed in conformance with specifications set forth by the Department of Defense and the Virginia Army National Guard.

2.0 INTRODUCTION

This report presents the results and findings of a Phase I Environmental Site Assessment (ESA) for proposed lease space within the Chesterfield County Airport in Chesterfield County, Virginia (Figure 1). The subject property is referred as "the Site" for the purposes of this report. The Site consists of portions of three buildings and two parking areas owned by Chesterfield County.

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2.1 Purpose

The objective of this Phase I ESA is to conduct all appropriate inquiries (AAI) into the previous ownership and uses of the Site consistent with good commercial or customary practice and ASTM Standard E1527-05. The Phase I ESA is intended to permit the user to satisfy the requirements to qualify for the landowner liability protections (LLPs) under CERCLA 42 U.S.C. Section 9601.

As part of the AAI, one of the objectives of this evaluation was to determine recognized environmental conditions (RECs) at the site and surrounding properties with regard to potential impacts to human health and the environment. According to the ASTM Standard E1527-05, a REC is defined as:

Recognized Environmental Conditions (REC) means the presence or likely presence of any hazardous substance or petroleum products on the property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under condition in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a threat to human health or the environment.

Specific objectives of this evaluation include the following:

- 1. Identification and documentation of past and present Site activities that may have resulted in potential impacts to the environment.
- 2. Identification and documentation of past and present activities at adjacent properties that may pose an environmental risk to the Site.

2.2 Detailed Scope-of-Services

The following general work tasks were performed to meet the project objectives:

- 1. Compilation and review of public information on the history of the Site and nearby properties.
- 2. Compilation and review of information on file with appropriate federal, state, and local environmental regulatory agencies.
- 3. Field survey of the site and surrounding areas.
- 4. Interviews with owners and people familiar with the Site

2.3 Significant Assumptions

It is assumed that the information provided to EEE by the current owner, Chesterfield County, Virginia Department of Environmental Quality (DEQ), and Virginia Department of Military Affairs (VDMA) is accurate and up-to-date.

2.4 Limitations and Exceptions

In addition to the limitations set forth in ASTM E1527-05, the accuracy completeness of this report is necessarily limited by the following:

Limitations and Exceptions	Yes	No
Access Limitations		X
Physical Limitation to observations (i.e. snow, rain, asphalt, buildings, etc)		X
Information requested but not available at time of report preparation.		X
Unique limitation not specified in ASTM Standard.		X

2.5 Special Terms and Conditions

This Phase I Environmental Assessment (ESA) was performed in accordance with the American Society for Testing and Materials (ASTM) E 1527-05 Standard Practice for Environmental Site Assessments. EEE also included information on Asbestos Containing Material (ACM), Lead-Based Paint (LBP) and Radon per Army National Guard specifications.

2.6 User Reliance

This ESA was performed by EEE Consulting, Inc. (EEE) for the Virginia Department of Military Affairs (VDMA). This report is provided for the sole use of VDMA and their designated representatives. Use of this report by another party is not authorized and will be at such party's own risk. EEE disclaims liability for use or reliance on this report by other parties.

3.0 SITE DESCRIPTION

3.1 Location and Legal Description

Chesterfield County Airport (FCI) is located at 7511 Airfield Drive, near the interchange of Route 10 (Ironbridge Road) and Route 288 (Figures 1 and 2). The Virginia Army National Guard is seeking to lease 19,500 square feet of hangar space (Buildings 7431 and 7417), 2,218 square feet of office space (Building 7501), and associated parking areas at Chesterfield County Airport (Figure 4). The Site is accessible only from Airfield Drive.

FCI is designated by the Federal Aviation Administration (FAA) as an official general aviation reliever airport for Richmond International Airport (RIC). FCI is owned and operated by the County of Chesterfield, Virginia.

3.2 Site and Vicinity Geological Characteristics

A topographic map showing sections of the USGS 7.5 minute topographic quadrangle maps of Chesterfield, VA, indicates surface elevation at the site is approximately 210 feet above mean sea level (AMSL). Based on the topographic map, the Site slopes to the southeast, where surface water discharges to Reedy Creek, located approximately 1,200 feet south of the Site. Adjacent properties to the airport include an industrial park to the west, VA 10 to the South, undeveloped woodland to the east, and a residential area to the north.

The Site is located in the eastern Piedmont Physiographic Province of Virginia. According to Mixon and others (1989 USGS), the uppermost geologic unit at the site is Tertiary-age Miocene sand and gravel. This geologic unit constitutes thin Coastal Plain outliers in the easternmost Piedmont where deposits directly overlie weathered crystalline rock. In part, these deposits may represent a fluvial to marginal-marine facies of the Choptank Formation. This geologic unit consists of fine to coarse sand, sandy gravel, silt, and clay. Pebbles and cobbles are deeply etched. Deposits are commonly oxidized to yellow-orange and yellow-brown.

According to the EDR Report and the Natural Resources Conservation Service (NRCS) Soils Map, the following soil types are present within the FCI boundary (Figure 6).

Soil Component Name	Soil Surface Texture	Hydrologic Group	Soil Drainage Class	Hydric Status	Corrosion Potential
Coalfax variant	Fine sandy loam	Class C	Somewhat poorly drained	Partially hydric	High
Bourne	Fine sandy loam	Class C	Moderately well drained	Not hydric	High
Aquults	Fine sandy loam	Class D	Poorly drained	All hydric	High
Fluvaquents	Silt loam	Class D	Poorly drained	All hydric	High

Table 1. Soil Types within Chesterfield County Airport Boundary

The Chesterfield County Airport lies within the James River Basin. A review of the USFWS National Wetlands Inventory (NWI) map for the area surrounding Chesterfield County indicated numerous areas of freshwater emergent and forested wetlands (Figure 5). FCI contracted Mill Creek Environmental Consultants, Ltd. to conduct a wetland survey and delineation for the existing airport property. The survey produced approximately 65 acres of wetlands and noted 6,241 linear feet of stream channels, the majority of which are manmade and serve as the stormwater management system of the airport. No wetlands are located in the immediate vicinity of the three buildings that VAARNG is proposing to lease.

In accordance with DCR and EPA policies, FCI has developed a Stormwater Pollution Prevention Plan (SWPPP) dated March 31, 2009. Stormwater runoff from FCI is conveyed to well-defined natural and manmade drainage features. Natural drainages carry mostly intermittent or wet weather flows while the bulk of stormwater management structures are hardened with bedrock, rip rap and/or cobblestones. With the exception of the developed portion of the airport and clear zones, the

watersheds at the facility exist in mixed hardwood and pine forests. Surface runoff from FCI generally flows southeast towards Reedy Creek.

3.3 Current Use of the Site

The current location of the Chesterfield County Airport was determined through a site selection study completed in 1969 and construction began in 1972 after completion of an Environmental Impact Assessment Report. The original construction project included the acquisition of 556 acres of land. The airport was officially dedicated in October 1973. Since the original construction, a number of additional projects have been completed, including runway extensions and construction of new hangar facilities, a terminal building and parking areas. An aerial photograph of the airport facility and surrounding properties is provided in Figure 3. The Site is currently unoccupied.

3.4 Description of Site Improvements

Buildings 7431 and 7417 are hangar facilities and Building 7501 is an office/administration building which was previously occupied by A.T. Massey Corporation. Currently, the proposed office space in Buildings 7431 and 7501 is unoccupied. Buildings 7431 and 7417 are currently used as aircraft hangars. The Site also includes two asphalt-paved parking areas, one located northwest and the other southwest of Building 7501 (Figure 4). No improvements are located on the asphalt parking areas and no aircraft were parked on the areas during the site reconnaissance.

VAARNG has no plans for improvements to the Site according to the Real Estate Action Plan (REAP) submitted by VAARNG. FCI completed interior renovations at Building 7431 in 2010 and has plans to renovate Building 7501 in the near future. No earth moving activities are planned.

3.5 Current Uses of Adjoining Properties

Adjacent properties of the Site include the FCI Terminal and airport storage buildings to the north, the FCI Fuel Farm, aircraft wash rack and runway clear zone to the south, Fire Station #15 and airport storage facilities to the east/southeast, and runway and clear zones to the west.

A fuel farm is located approximately 600 feet southeast of Building 7417 (Hangar). The facility was constructed in the early 1970s and was upgraded in the 1990s to meet EPA standards. Three USTs and one AST are located at the airport fuel farm, including two 12,000-gallon Jet A fuel USTs, one 12,000-gallon Avgas UST and one 500-gallon gasoline AST. The airport owns and maintains the fuel farm and aircraft fuel is dispensed via three fuel trucks owned or leased by the Fixed Base Operator (FBO). FCI records indicate the fuel farm is in compliance with EPA and VDEQ regulations. FCI has a Spill Prevention Countermeasures and Control Plan (SPCCP) dated March 5, 2009. The airport also has two emergency generators which have belly tanks for diesel fuel storage, one 250-gallon and one 50-gallon. No evidence of petroleum releases from the tanks was observed during the March 18, 2013 site inspection.

Fire Station #15, located approximately 800 feet southeast along Airfield Drive, has one 1,000-gallon diesel UST for vehicle fueling. Personnel indicate the UST has not had a release and no evidence of a release was observed during the March 18, 2013 site inspection. The Airport Pump Station has one 280-gallon UST closed in place.

No environmental impacts were observed on the Site or any of the adjacent properties during the Site reconnaissance conducted on March 18, 2013.

4.0 USER PROVIDED INFORMATION

4.1 Title Records

The user provided an aerial photograph for the Site including the locations of proposed lease spaces. A legal description of the Site was not provided. Historical deed records obtained from the Chesterfield County Circuit Court were reviewed by EEE personnel. Prior to development, the airport property was undeveloped land, owned by private owners (Appendix D).

4.2 Environmental Liens/Activity and Use Limitations

According to the information reviewed, no environmental liens occur on the subject Site. No activity or use limitations were recorded in the deed.

4.3 Specialized Knowledge

EEE contacted Mrs. Pam Coleman of VDMA (the user), Mr. Jeff Howard (Environmental Manager, Chesterfield County), Mr. Thomas Trudeau (Airport Manager, Chesterfield County Airport) and Mr. Jeremy Wilkinson (Facilities Maintenance Supervisor, Chesterfield County Airport) regarding any specialized knowledge or experience that would suggest any recognized environmental conditions in connection with the property. They were not aware of any RECs associated with the property. Mrs. Coleman completed a User Questionnaire in April 2013, which is included in Appendix E.

4.4 Commonly Known or Reasonably Ascertainable Information

EEE reviewed deeds and zoning information for this site. Any other environmental liens or activity and use limitations recorded or filed any place other than recorded land title records or available from local planning departments were not considered to be reasonably ascertainable information.

4.5 Valuation Reduction for Environmental Issues

According to the owner/operator, there is no value reduction for the property due to recognized environmental concerns. The property is being leased to the Virginia Army National Guard. No purchase of the property by VAARNG is planned.

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4.6 Owner, Property Manager & Occupant Information

Chesterfield County provided an Airport Master Plan which included site maps and detailed description of planned improvements to the airport. Chesterfield County Planning and GIS Department provided GIS maps that identify easements and zoning information (Figure 7). Public water and wastewater services are provided to airport facilities by Chesterfield County. Dominion Virginia Power provides electrical power and Verizon provides telecommunications services to the airport.

4.7 Reason for Performing Phase I

This Phase I ESA was performed for VDMA to investigate previous owners and uses of the property. The Phase I was also conducted to determine and locate any possible RECs located on or within close proximity to the project area.

5.0 RECORDS REVIEW

5.1 Standard Environmental Record Sources

The current and past regulatory status of the subject parcel and nearby properties was determined by a review of information on file with the U.S. Environmental Protection Agency (EPA), Chesterfield County, and the Virginia Department of Environmental Quality (DEQ).

5.2 Additional Environmental Record Sources

A records search performed by Environmental Data Resources, Inc. (EDR) of Southport, Connecticut was reviewed. The search distance satisfies the "approximate minimum search distance" requirement of the ASTM standard. A copy of the complete EDR report is included in Appendix C. The following is a summary of the information gathered during the records search:

There were no sites identified by the EDR report within the ASTM search radius for the following databases:

- Federal NPL (Superfund)
- Federal Delisted NPL
- CERCLIS
- CERCLIS NFRAP
- CORRACTS
- RCRA-TSDF
- RCRA-LQG
- RCRA-SQG
- RCRA-CESQG

- ENG CONTROLS
- INST CONTROLS
- ERNS
- SWF/LF
- AST
- VCP
- BROWNFIELDS
- DOD
- FUDS
- CONSENT
- ROD
- UMTRA
- US MINES
- HMIRS
- SPILLS
- DRYCLEANERS
- COAL ASH
- EDR MGP
- EDR US Historical Auto Station
- EDR US Historical Dry Cleaners

There were three mappable sites within the ASTM search distance. The EDR report identified:

- One location on the LUST/LTANKS databases
- Two locations on the UST database

Additional Information about the mapped sites is listed below:

- The EDR report identified one LUST site within ½ mile of the Site. Frito Lay Sales Distribution is located at 8010 Whitebark Terrace, approximately 0.46 mile southwest of the Site. One 10,000-gallon diesel UST was removed and the associated Pollution Complaint files (PC# 19939404 and 19900100) have been subsequently closed by the DEQ. Upon review of the topography adjacent to the Frito Lay site, any remaining subsurface contamination is not expected to migrate toward the Site. Thus, the Frito Lay site impacts are not considered likely to impact the subject Site.
- The EDR report identified two UST locations within the ¼ mile search radius from the Site, the Airport Pump Station located at 7130 Airfield Drive, approximately 0.19 miles northwest of the Site and the Airport Fire Station #15 located at 7300 Airfield Drive, approximately 0.06 miles northeast of the Site. The Airport Pump Station has a 280-gallon diesel UST closed in place and there is no Pollution Complaint associated with the tank. Fire Station (#15) has one double-walled, steel 1000-gallon diesel UST that was installed in 1989 and is currently used for fueling vehicles.

The EDR database search yielded 17 unmappable orphan sites. Orphan sites are those with insufficient address information such that they can only be identified as within the zip code of the

target property. Reasonable efforts were made to located these sites and assess their relevance to this ESA report. Further research was conducted using Google Maps. Only one orphan site was identified as a LUST site and was located more than one mile from the Site. The remaining orphan sites were identified in the following databases: TIER II, FINDS, SWF/LF, RCRA-SQG/CESQG, SPILLS and MANIFEST. All orphan sites were located more than one mile from the Site.

There were no state registered landfills located within 0.50 mile of the property. No public water supply (PWS) systems were identified within one mile of the site. No tribal land or burial grounds were identified within the search radius.

5.3 Physical Setting Sources

The following sources were used to characterize the physical setting of the site:

- Airport Layout Master Plan Update, Chesterfield County Airport, March 2012: Delta Airport Consultants, Inc.
- GIS Data developed by Chesterfield County.
- Topographic Maps and Aerial Photographs provided by EDR, Inc.

5.4 Historical Use Information on the Property

A limited history of the Site ownership and usage of the Site and surrounding properties was developed through information provided by the user, the owner, and people familiar with the site, as well as historical topographic maps and aerial photographs and deed records. There are no Historical Sanborn Maps recorded for the area. Selected historical topographic maps and aerial photographs are included in Appendix B.

The Chesterfield County Airport has been under the ownership of Chesterfield County since 1971. Prior to development as an airport facility, the property was undeveloped and owned by private landowners. Historical topographic maps were reviewed from 1897 to 1994. A review of the 1897 through 1968 maps show the area was undeveloped during this time period. The 1974 topographic map is the first map to show the construction of the airport. The 1984 topographic map shows increased development at the airport property.

Historical aerial photographs were reviewed from 1959 through 2011. In the 1959, 1964 and 1968 photographs, the property was undeveloped. The 1972 photograph shows the airport during construction and the 1974 photograph shows the airport with a runway and buildings. The 1989 photograph indicates a runway extension had occurred. After 1994, photographs show increased development of the airport and surrounding areas.

5.5 Historical Use Information on Adjoining Properties

The 1980 aerial photograph shows the first significant development west of the airport and the 1984 topographic map shows increased development west of the airport at the industrial park. The 1987

topographic map shows increased residential development north and northeast of the airport. The land east of the airport remains undeveloped.

6.0 SITE RECONNAISSANCE

6.1 Methodology and Limiting Conditions

EEE personnel completed a site reconnaissance on March 18, 2013. Photographs taken during the site reconnaissance are presented in Appendix A.

EEE made a visual inspection of the project area. EEE personnel also conducted a limited reconnaissance of the immediate area surrounding the Site and adjoining properties along the public roads.

6.2 General Site Setting

Chesterfield County Airport (FCI) is located at 7511 Airfield Drive, near the interchange of Route 10 (Ironbridge Road) and Route 288 in Chesterfield, Virginia. The Virginia Army National Guard is proposing to lease office and hangar space in Buildings 7501, 7431 and 7417, along with two associated parking areas. The Site is accessible only from Airfield Drive.

6.3 Exterior Observations

The following exterior observations were noted at the subject properties during the site reconnaissance:

- Building 7501 Metal siding, building in good condition
- Building 7431 Metal frame building in excellent condition
- Building 7417 Metal frame building in excellent condition
- Parking area Asphalt, no equipment or vehicles onsite, excellent condition

No USTs/ASTs, hazardous material or waste storage were observed at the subject properties.

The following exterior observations were made on adjoining airport property during the site reconnaissance:

- Several electrical transformers located throughout the airport property. All transformers are owned and operated by Dominion Virginia Power. No other possible sources of PCBs were found during the review of past land use activities at the Site.
- Hazardous materials stored onsite, including aircraft deicing fluid, aircraft and ground equipment fuel and general maintenance and cleaning supplies.
- Water/fuel mix in 55-gallon drums at the fuel farm.

FCI personnel indicated the drums at the fuel farm contain water that is periodically pumped from the UST sumps. The drums are in good condition, labeled "Hazardous Waste" and stored under shelter. No other hazardous materials or wastes were observed during the March 18, 2013 site inspection. No spills or releases, or other adverse environmental conditions were observed associated with any of the above areas.

6.4 Interior Observations

Building 7501 is a two story building that was constructed in 1974. The VAARNG is proposing to lease the second floor office which is approximately 100' x 30' with windows facing the airport runway. The office space has not been renovated recently but appeared to be in good condition. FCI personnel indicated that renovations to Building 7501, including removal and replacement of ceiling tile and floor tile, are planned for the near future. In December 2010, floor tile and mastic in the second floor office hallway of Building 7501 were determined to be ACM. All ACM will be managed according to the Asbestos Management Plan for County Operations.

Building 7431 is a one-story building that was constructed in 1979 and was previously occupied by A.T. Massey Corporation. The VAARNG is proposing to lease first floor office space and the hangar. According to FCI personnel, interior renovations to Building 7431 office space were completed in 2010. The office space consists of typical work cubicles and a small kitchen. The interior of the hangar is a clear-span frame with a concrete slab floor. Minor historical petroleum staining was observed on the concrete floor. The building is in excellent condition.

Building 7417 (Hangar) was constructed in 2005. The interior is s clear-span frame with a concrete slab floor. Several aircraft were being stored during the site reconnaissance. Minor historical petroleum stains were observed on the concrete floor. The building is in excellent condition.

The VAARNG does not have plans for improvement at the Site. No hazardous material or petroleum storage was observed at the Site. Interior photos are attached in Appendix A.

7.0 INTERVIEWS

Information used and provided in this report was acquired from interviews with several different groups.

7.1 Interview with Owner

Mr. Jeff Howard, Environmental Program Manager for Chesterfield County was interviewed on April 22, 2013. Mr. Howard had no knowledge of the presence of any RECs, environmental liens, or activity and use limitations on the subject Site.

7.2 Interview with Site Manager

The site is currently managed by Chesterfield County. Mr. Thomas Trudeau, Airport Manager, and Mr. Jeremy Wilkinson, Facilities Maintenance Supervisor, Chesterfield County Airport accompanied EEE personnel during the site reconnaissance. They had no knowledge of the presence of any RECs, environmental liens, or activity and use limitations on the subject Site. They indicated that interior renovations had been completed in Building 7431 in 2010 and that renovations are planned for Building 7501.

7.3 Interview with Occupants

Currently there are no occupants on the Site.

7.4 Interviews with Local Government Officials

No other local government officials were interviewed.

7.5 Interviews with Others

No other individuals were interviewed.

8.0 FINDINGS

- No current or historical RECs were identified for the subject Site.
- No activity or use limitations were identified for the subject Site.
- Asbestos Containing Material (ACM) has been found in the second floor office hallway of Building 7501

9.0 **OPINIONS**

EEE recommends that a comprehensive ACM survey be completed prior to any renovation activities. EPA and Virginia Building Code regulations require a comprehensive survey for ACM, including destructive sampling if necessary, prior to renovation or demolition activities that will disturb such materials.

10.0 CONCLUSIONS

EEE performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 and in conformance with Department of Defense specifications. Any exceptions to, or deletions from, this practice are described in Section 2.4 of this

report. The assessment has revealed no potential *recognized environmental conditions* in connection with the Site, and there are no recommendations prior to acquisition of the Site.

11.0 DEVIATIONS

Below is a list of the data gaps or deviations from the Phase I ESA standard:

• Past property owners were not interviewed.

12.0 ADDITIONAL SERVICES

EEE included information on Asbestos Containing Material (ACM), Lead-Based Paint (LBP) and Radon in accordance with DoD and Army National Guard specifications.

Buildings 7501 and 7431 were constructed in the 1970s and may contain ACM. Building 7417 was built in 2005 and is therefore less likely to contain ACM. Chesterfield County is in the process of completing an Asbestos and Lead-Based Paint Survey for the airport facility. In December 2010, the floor tile and mastic in the second floor office hallway of Building 7501 were determined to be ACM. FCI personnel indicated that renovations in Building 7431 were completed in 2010. Renovations to Building 7501 are planned for the near future, and all ACM will be managed according to the Asbestos Management Plan for County Operations.

A comprehensive LBP survey of the entire airport facility has not been completed; however, the fuel farm area was sampled for LBP in December 2010 and results indicated that LBP was not present. Building 7431 was renovated in 2010; therefore the presence of LBP is not likely. Chesterfield county personnel indicated that LBP will be sampled and managed as necessary prior to any future renovations at the Site.

The EPA Map of Radon Zones for Chesterfield County, Virginia indicates that the county lies within the high priority zone, Zone 1, which has a predicted average indoor radon screening level greater than the EPA's recommended maximum allowable exposure level of 4.0 pCi/L. The EDR report also listed radon levels in Chesterfield County as Zone 1. The database summary included averages for 37 test sites in the County. According to the testing data, approximately 3% of the test sites exhibited radon concentrations that were in excess of 4.0 pCi/L.

13.0 REFERENCES

The following is a list of references used for the Phase I ESA:

- The EDR Radius Map Report with GeoCheck, March 12, 2013: Environmental Data Resources, Inc.
- Geological Map and Generalized Cross Sections of the Coastal Plain and Adjacent Parts of the Piedmont, Virginia, Mixon et al, 1989
- ASTM E1527-05, Environmental Site Assessments: Phase I Site Assessment Process.
- The Army National Guard Environmental Condition of Property Handbook, 1 June 2011: Army National Guard.
- Airport Layout Master Plan Update, Chesterfield County Airport, March 2012: Delta Airport Consultants, Inc.
- Final Asbestos and Lead Inspection Reports for Chesterfield County Airport, Air Traffic Control Building/Fuel Tank Dispenser Station, January 4, 2011: EEE Consulting, Inc.
- Real Estate Action Plan, VAARNG

14.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief we meet the definition of environmental professional as defined in 40 CFR 312.10 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject Site.

We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

Jennifer L. Jones

Environmental Scientist

Maria Mutuc, PE

ledellature

13-044 17 May 2013

15.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

The following individuals from EEE Consulting, Inc. were involved in the preparation of this Phase I ESA:

Maria Mutuc, PE

M.S., 2005, Environmental Engineering, Virginia Polytechnic Institute and State University B.S., 1999, Chemical Engineering, University of the Philippines

Ms. Mutuc has 9 years of experience as an environmental engineer both with environmental consulting companies. Ms. Mutuc has substantial experience with assessing, and implementing solutions to meet environmental regulations. Her experience also includes monitoring and measuring the fate and transport of chemicals in the environment and evaluating the environmental impact of new facilities.

Areas of Expertise

- Environmental Site Assessments
- Environmental Impact Studies
- Monitoring and Measuring, Fate and Transport of Chemicals in the Environment
- Ozone Depleting Substances
- Air Monitoring

Jennifer L. Jones

M.I.S., 2002, Environmental Studies, Virginia Commonwealth University B.S., 1999, Biology and Environmental Science, The College of William and Mary

Ms. Jones has 8 years of experience in regulatory compliance and environmental consulting. She was a former Compliance Manager for VA Department of Military Affairs and a VDEQ Risk Assessor. Ms. Jones has substantial experience with hazardous waste, SPCC compliance and human health and ecological risk assessments.

Areas of Expertise

- Risk Assessments
- Environmental Compliance Assessments
- Hazardous Waste Compliance
- SPCC Compliance

16.0 LIST OF ACRONYMS

ACM Asbestos Containing Material

AAI All Appropriate Inquiry
AR US Army Regulation
AST Aboveground Storage Tank

ASTM American Society for Testing and Materials

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CERCLIS CERCLA Information Service

CERC-NFRAP CERCLIS No Further Remedial Action Planned CESQG Conditionally Exempt Small Quantity Generator

CFR Code of Federal Regulations
COAL ASH Coal Ash Disposal Sites
CORRACTS Corrective Action Site

CZM Virginia Coastal Zone Management Program

DMA Department of Military Affairs

DoD Department of Defense

DRMO Defense Reutilization and Marketing Office ESA Environmental Condition of Property

EDR Environmental Data Resources, Incorporated

EEE EEE Consulting, Incorporated ENF State Enforcement Action

ENG CONTROLS Engineering Controls Site Listing

ERNS Federal Emergency Response Notification System

FIRM Flood Insurance Rate Map

FEMA Federal Emergency Management Agency

FUDS Formerly Used Defense Site
GIS Geographic Information Systems

HMIRS Hazardous Material Information Reporting System

ID Identification

INST CONTROLS Voluntary Remediation Program Database

LLP Landowner Liability Protections
LQG Large Quantity Generator
LTANKS Leaking Storage Tanks

LUST Leaking Underground Storage Tank

MGP Manufactured Gas Plant NPL National Priorities List

NRCS Natural Resources Conservation Service NRHP National Register of Historic Places

OWS
Oil/Water Separator
PC
Pollution Complaint
PCB
Polychlorinated Biphenyls
PCi/L
Picocuries Per Liter
PPM
Parts per million
PWS
Public Water Supply

RCRA Resource Conservation and Recovery Act

RCRIS Resource Conservation and Recovery Act Information Service

REAP Real Estate Action Plan

REC Recognized Environmental Condition

ROD Record of Decision
RQ Reportable Quantity

SHPO State Historic Preservation Office

SQG Small Quantity Generator SPILLS Pollution Complaint Database SWF/LF Solid Waste Facility/Landfill

TRIS Toxic Chemical Release Inventory System

TSCA Toxic Substances Control Act

TSDF Treatment, Storage, and/or Disposal Facility

UMTRA Uranium Mill Tailings Sites

U.S. United States

USDA U.S. Department of Agriculture

USEPA U.S. Environmental Protection Agency

USFWS U.S. Fish and Wildlife Service

USGS U.S. Geological Survey
UST Underground Storage Tank
VAARNG Virginia Army National Guard
VCP Voluntary Remediation Program

VDACS Virginia Department of Agriculture and Consumer Services

VDCR Virginia Department of Conservation and Recreation VDEQ Virginia Department of Environmental Quality VDGIF Virginia Department of Game and Inland Fisheries

VDHR Virginia Department of Historic Resources

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FIGURES

Figure 1	Site Vicinity Map
Figure 2	Aerial Photograph
Figure 3	Topographic Map
Figure 4	Site Layout
Figure 5	Wetlands Map
Figure 6	Soils Map
Figure 7	Zoning Map

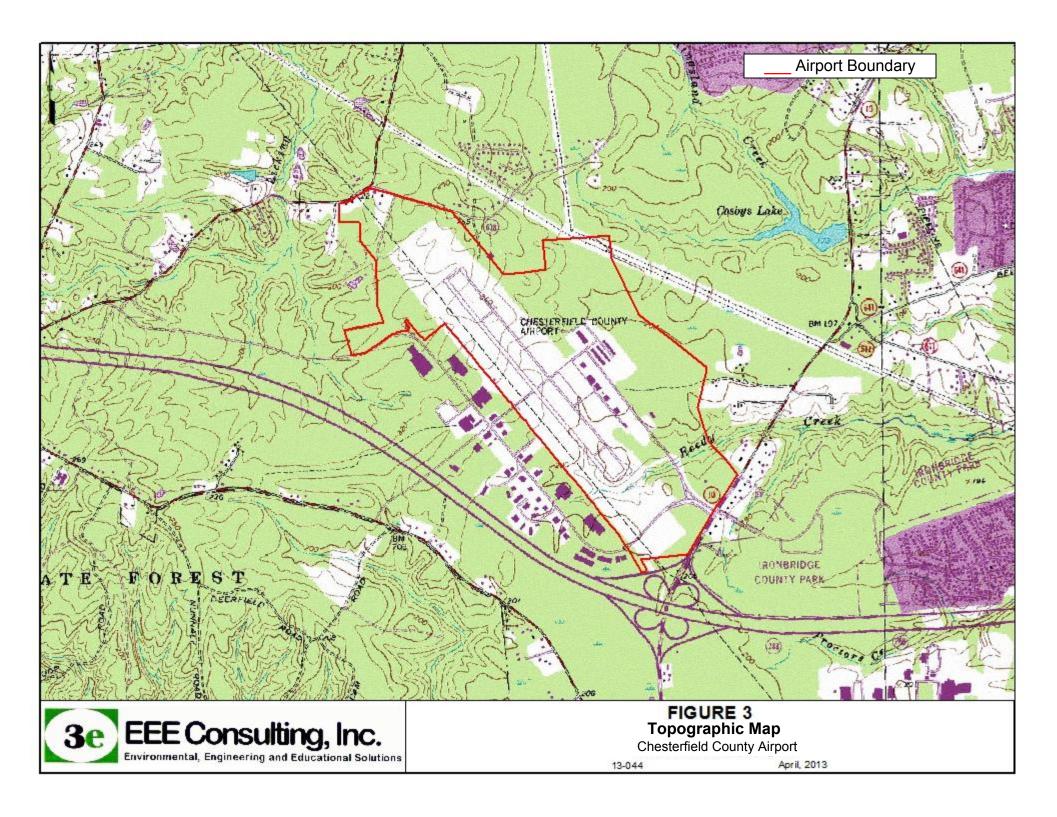






FIGURE 2
Aerial Photograph
Chesterfield County Airport

13-044 April, 2013

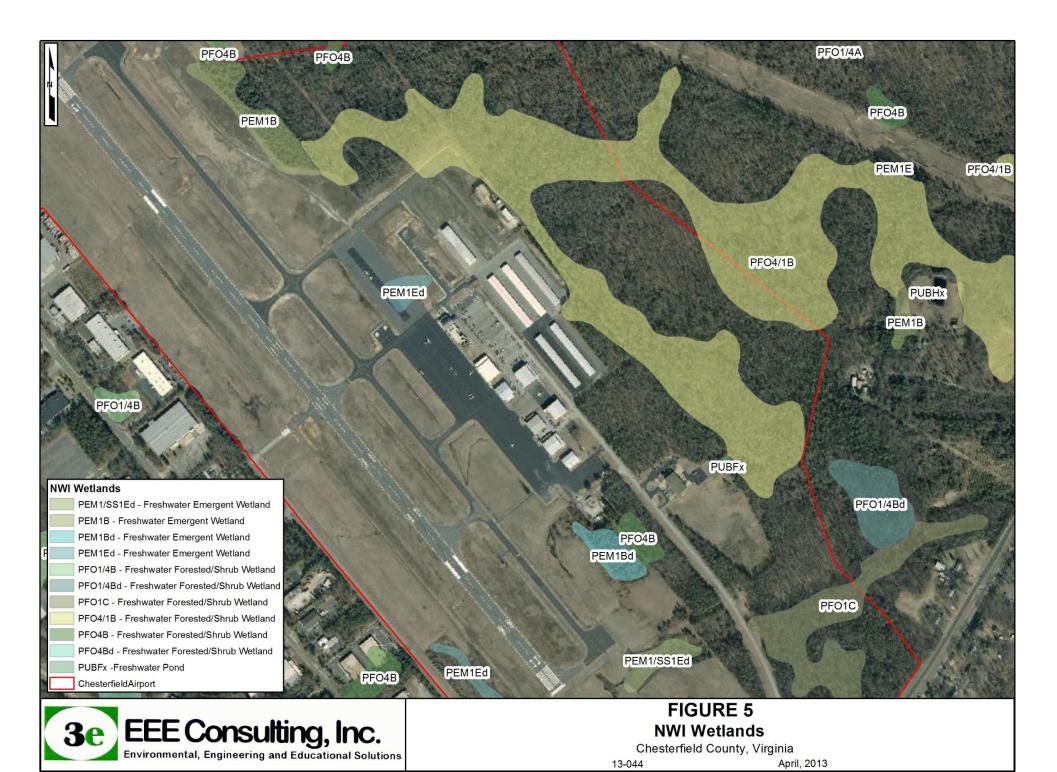


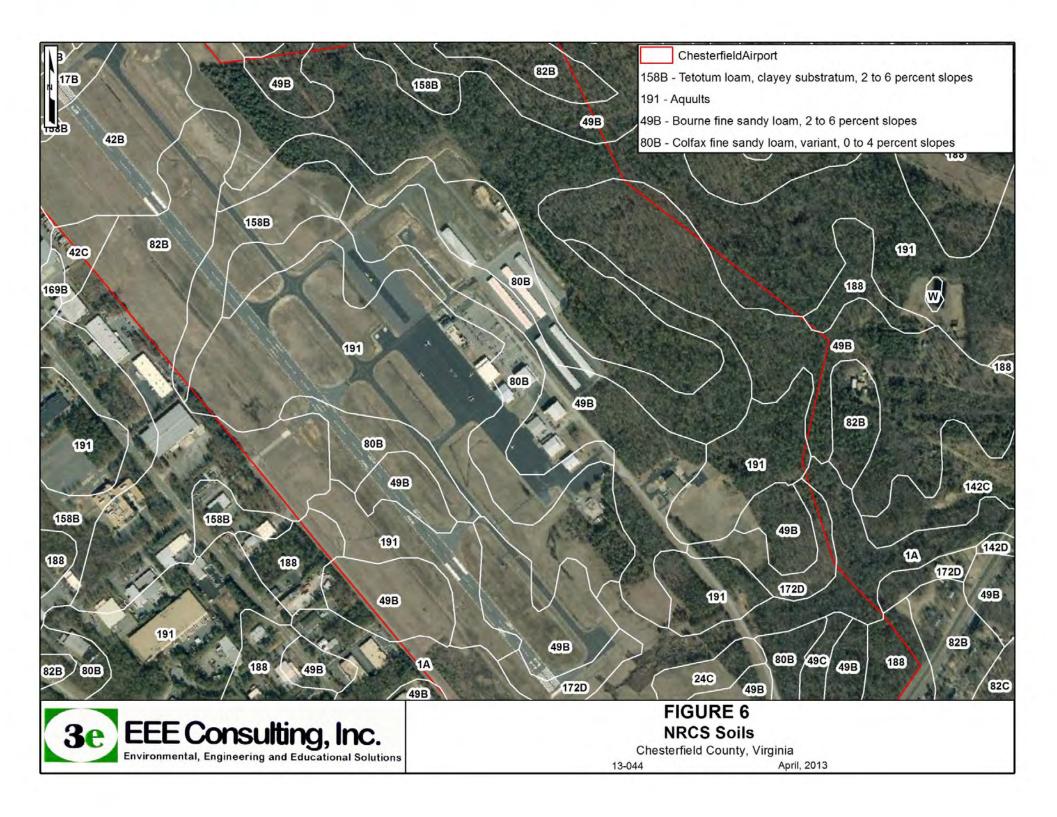


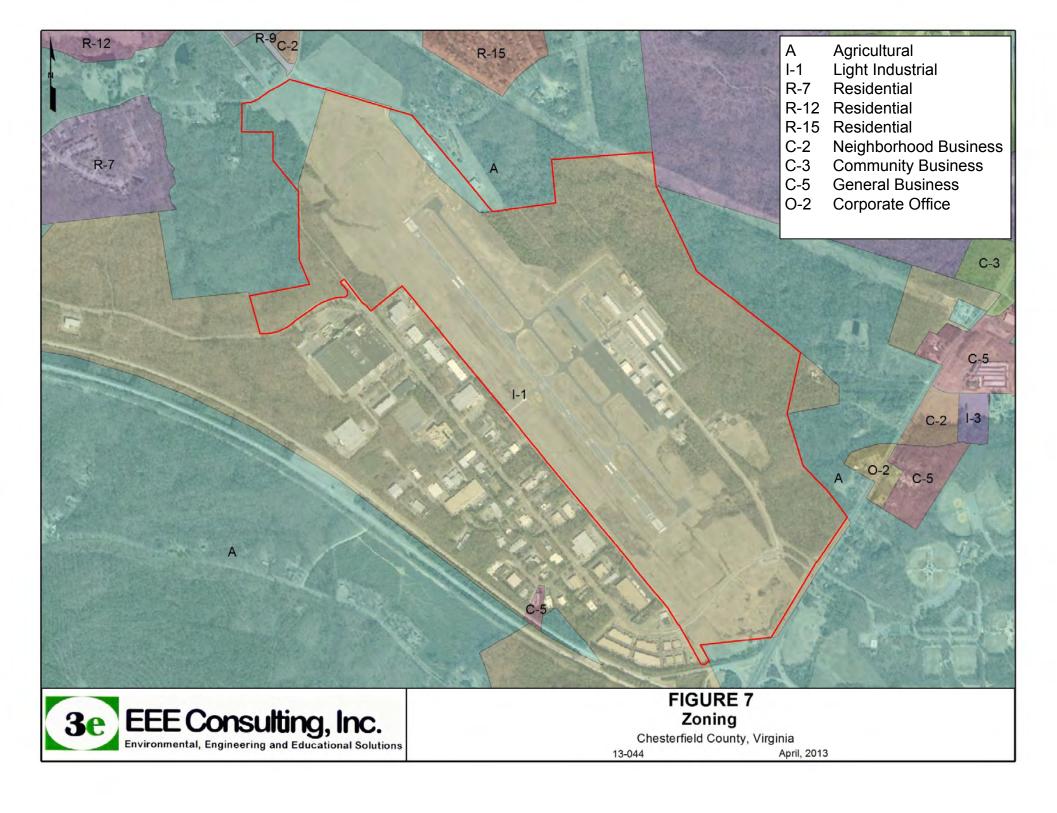
3e EEE Consulting, Inc.
Environmental, Engineering and Educational Solutions

Site Layout

Chesterfield County, Virginia April, 2013 13-044







APPENDIX A

Site Photographs



Building 7501, Second Floor Interior and Hallway



Building 7501, Exterior



Building 7431, First Floor Interior



Building 7501, Second Floor Interior



Building 7431, Exterior



Building 7431, First Floor Interior



Building 7431, Hangar Interior



Building 7417, Hanger Exterior



Airport Fuel Farm, located southeast of Bldg 7417



Building 7431, Hangar Interior



Building 7417, Hanger Interior



Waste drum storage at Fuel Farm



View of facing west of Site toward Industrial Park



View of Airport Washrack, looking southeast of the Site



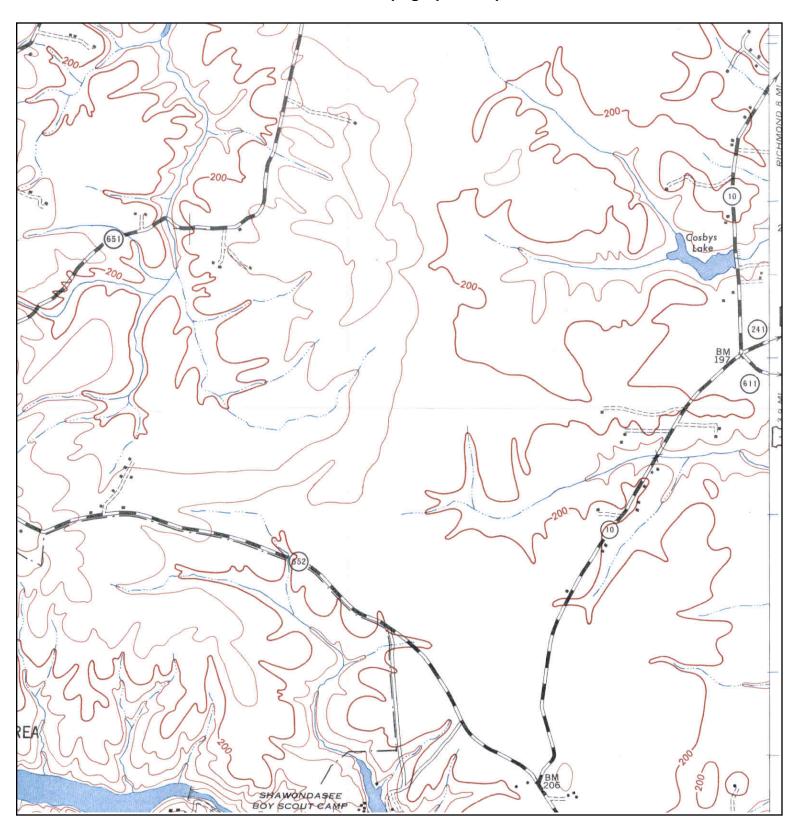
View facing east of Site



View facing north of Site

APPENDIX B

Historical Topographic Maps and Aerial Photographs





TARGET QUAD

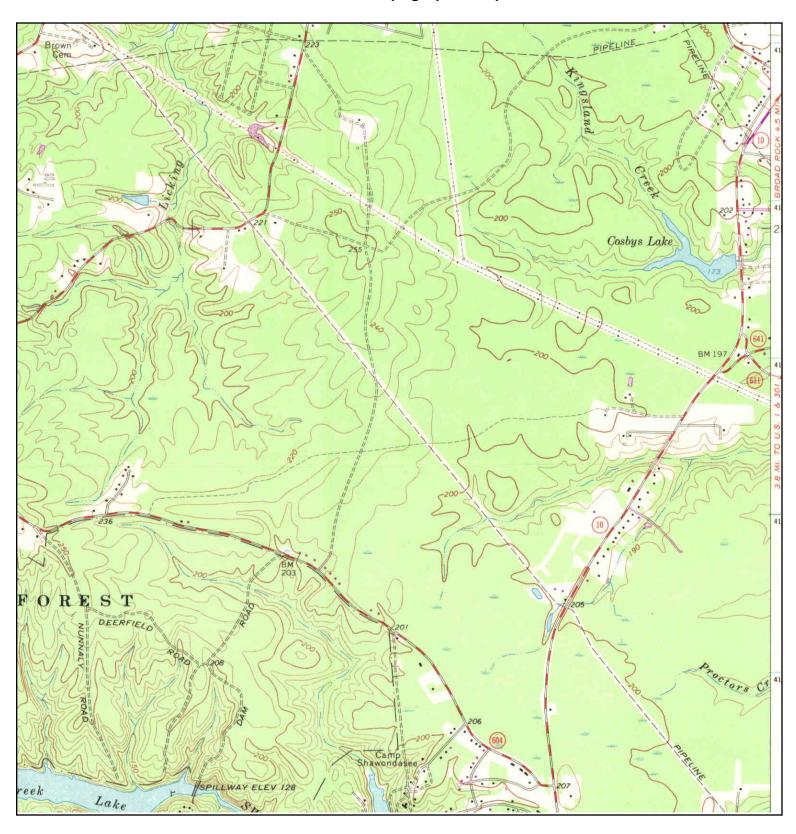
NAME: CHESTERFIELD

MAP YEAR: 1943

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Chesterfield Airport ADDRESS: 7431 Airfield Drive

Richmond, VA 23237

LAT/LONG: 37.4058 / -77.5197





TARGET QUAD

NAME: CHESTERFIELD

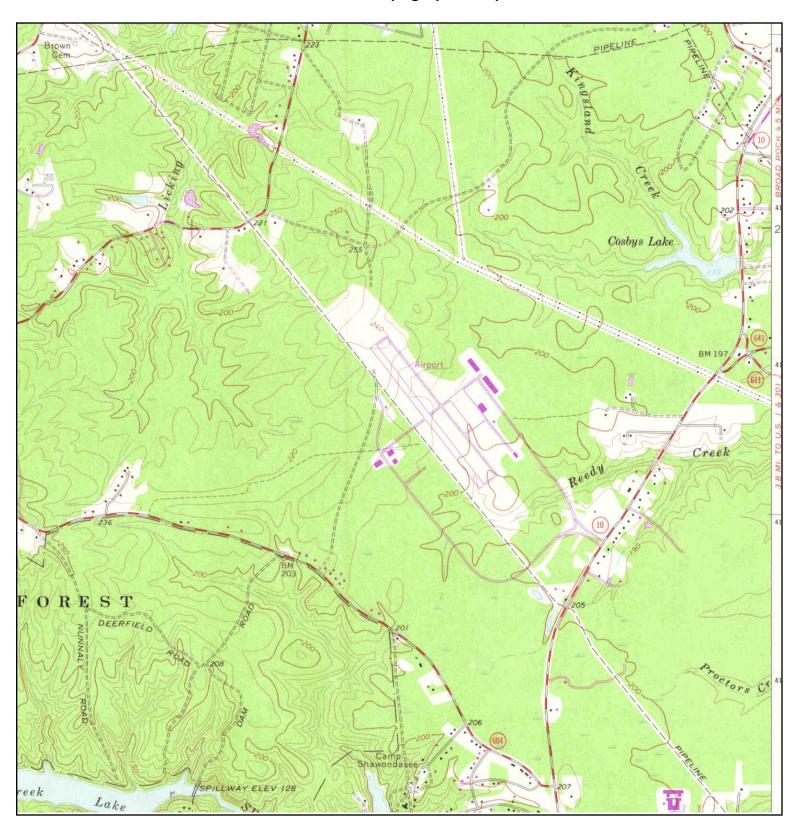
MAP YEAR: 1968

PHOTOREVISED FROM: 1963

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Chesterfield Airport ADDRESS: 7431 Airfield Drive

7431 Airfield Drive Richmond, VA 23237

LAT/LONG: 37.4058 / -77.5197





TARGET QUAD

NAME: CHESTERFIELD

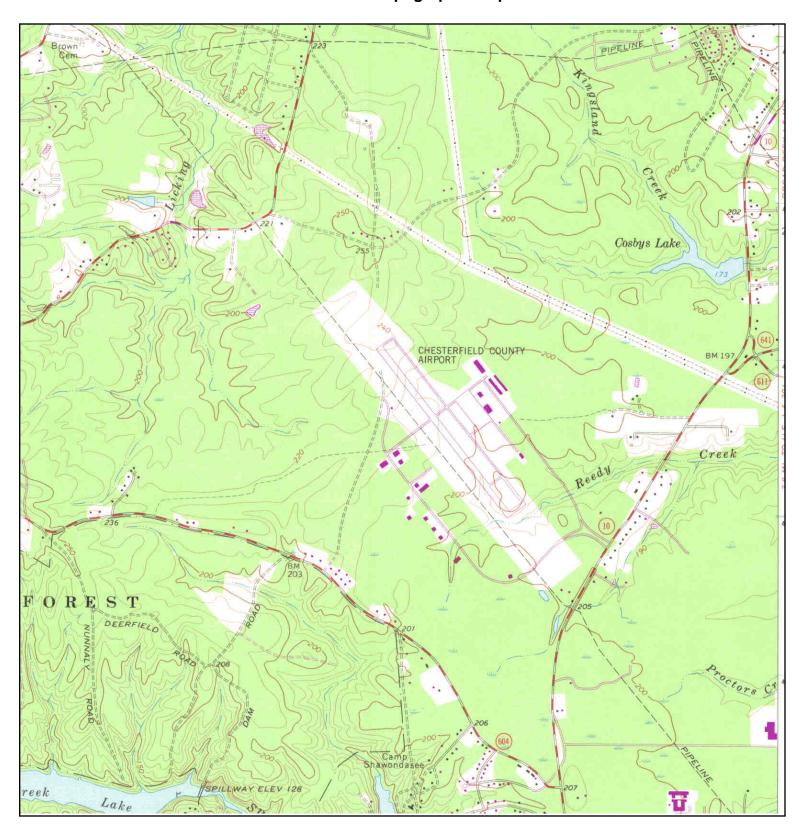
MAP YEAR: 1974

PHOTOREVISED FROM: 1963

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Chesterfield Airport

ADDRESS: 7431 Airfield Drive Richmond, VA 23237

LAT/LONG: 37.4058 / -77.5197





TARGET QUAD

NAME: CHESTERFIELD

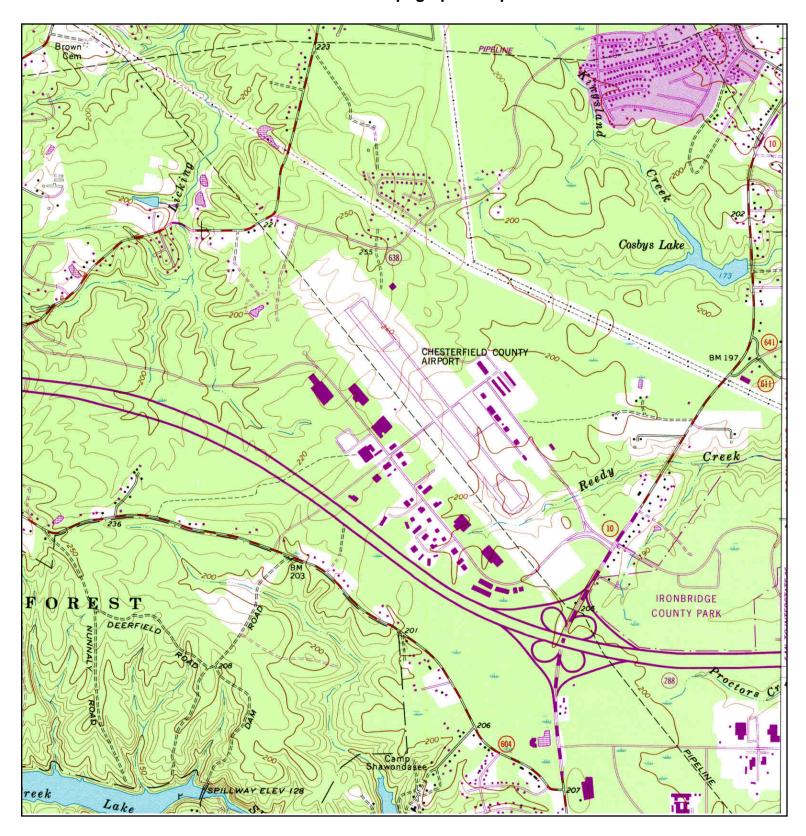
MAP YEAR: 1980

PHOTOREVISED FROM: 1963

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Chesterfield Airport ADDRESS: 7431 Airfield Drive

S: 7431 Airfield Drive Richmond, VA 23237

LAT/LONG: 37.4058 / -77.5197





TARGET QUAD

SCALE:

NAME: CHESTERFIELD

1:24000

MAP YEAR: 1994 REVISED FROM :1963 SERIES: 7.5 SITE NAME: Chesterfield Airport ADDRESS: 7431 Airfield Drive

LAT/LONG:

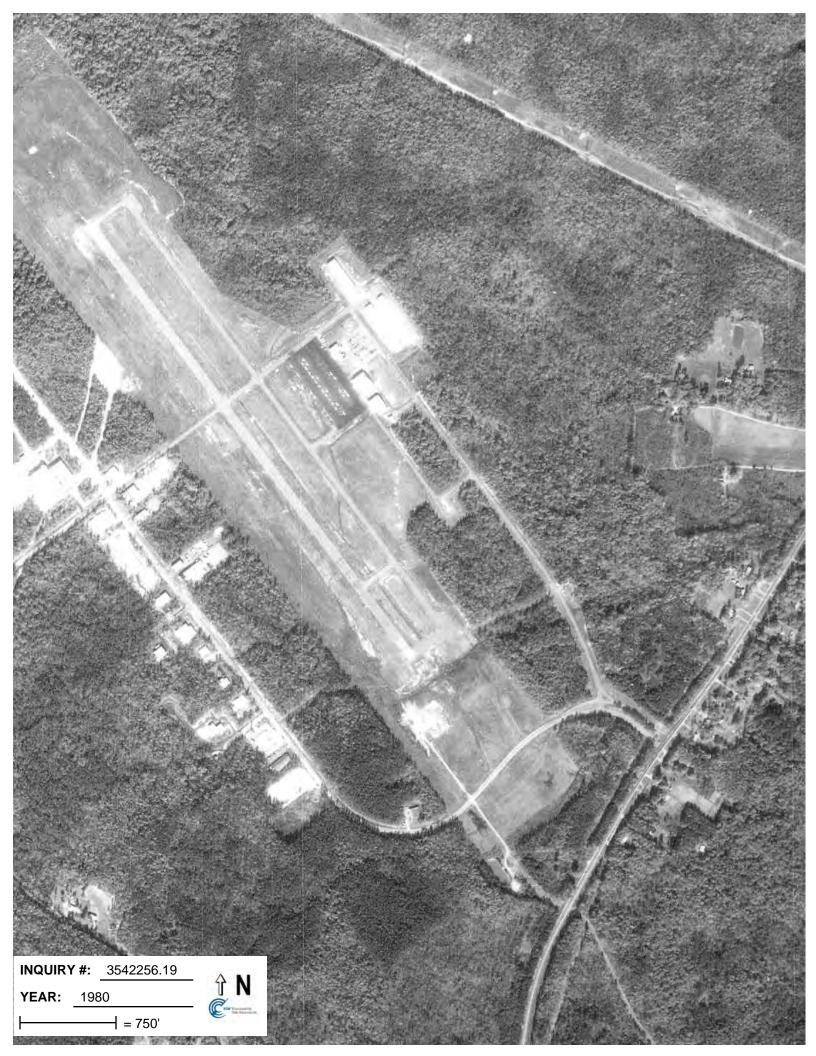
Richmond, VA 23237

37.4058 / -77.5197











APPENDIX C

Regulatory Database Summary Report

Chesterfield Airport

7431 Airfield Drive Richmond, VA 23237

Inquiry Number: 3542256.16s

March 12, 2013

The EDR Radius Map™ Report with GeoCheck®

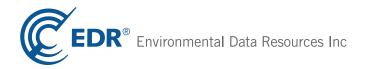


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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

7431 AIRFIELD DRIVE RICHMOND, VA 23237

COORDINATES

Latitude (North): 37.4058000 - 37° 24' 20.88" Longitude (West): 77.5197000 - 77° 31' 10.92"

Universal Tranverse Mercator: Zone 18 UTM X (Meters): 276979.5 UTM Y (Meters): 4142666.5

Elevation: 210 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 37077-D5 CHESTERFIELD, VA

Most Recent Revision: 1994

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2011 Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list	
NPL	National Priority List

Proposed NPL..... Proposed National Priority List Sites NPL LIENS..... Federal Superfund Liens Federal Delisted NPL site list Delisted NPL..... National Priority List Deletions Federal CERCLIS list CERCLIS.... FEDERAL FACILITY..... Federal Facility Site Information listing Federal CERCLIS NFRAP site List CERC-NFRAP..... CERCLIS No Further Remedial Action Planned Federal RCRA CORRACTS facilities list CORRACTS..... Corrective Action Report Federal RCRA non-CORRACTS TSD facilities list RCRA-TSDF...... RCRA - Treatment, Storage and Disposal Federal RCRA generators list RCRA-LQG______RCRA - Large Quantity Generators RCRA-SQG..... RCRA - Small Quantity Generators RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator Federal institutional controls / engineering controls registries US ENG CONTROLS..... Engineering Controls Sites List US INST CONTROL..... Sites with Institutional Controls LUCIS.....Land Use Control Information System Federal ERNS list ERNS..... Emergency Response Notification System State- and tribal - equivalent CERCLIS SHWS...... This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list. State and tribal landfill and/or solid waste disposal site lists SWF/LF..... Solid Waste Management Facilities State and tribal leaking storage tank lists INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land State and tribal registered storage tank lists AST...... Registered Petroleum Storage Tanks

State and tribal institutional control / engineering control registries

ENG CONTROLS..... Engineering Controls Sites Listing

INST CONTROL...... Voluntary Remediation Program Database

State and tribal voluntary cleanup sites

VCP......Voluntary Remediation Program INDIAN VCP.....Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Site Specific Assessments

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9.......... Torres Martinez Reservation Illegal Dump Site Locations

ODI..... Open Dump Inventory

INDIAN ODI...... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs

US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS_____ Hazardous Materials Information Reporting System

SPILLS..... Pollution Complaint Database

Other Ascertainable Records

CONSENT..... Superfund (CERCLA) Consent Decrees

TRIS...... Toxic Chemical Release Inventory System

TSCA..... Toxic Substances Control Act

FTTS......FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide

Act)/TSCA (Toxic Substances Control Act)

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

SSTS..... Section 7 Tracking Systems

ICIS_____Integrated Compliance Information System

FINDS....... Facility Index System/Facility Registry System RAATS...... RCRA Administrative Action Tracking System

RMP..... Risk Management Plans

UIC..... Underground Injection Control Wells

DRYCLEANERS..... Drycleaner List

ENF..... Enforcement Actions Data

NPDES...... Comprehensive Environmental Data System

SCRD DRYCLEANERS...... State Coalition for Remediation of Drycleaners Listing

COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

COAL ASH DOE...... Steam-Electric Plant Operation Data

COAL ASH..... Coal Ash Disposal Sites

PCB TRANSFORMER...... PCB Transformer Registration Database

US FIN ASSUR_____ Financial Assurance Information

EPA WATCH LIST..... EPA WATCH LIST

PRP.....Potentially Responsible Parties

US AIRS______ Aerometric Information Retrieval System Facility Subsystem

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP...... EDR Proprietary Manufactured Gas Plants EDR US Hist Auto Stat...... EDR Exclusive Historic Gas Stations EDR US Hist Cleaners...... EDR Exclusive Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Database.

A review of the LUST list, as provided by EDR, and dated 05/18/2004 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FRITO LAY SALES DISTRIBUTION C	8010 WHITEBARK TER	SW 1/4 - 1/2 (0.460 mi.)	3	11
Facility Status: Closed				

LTANKS: The Leaking Tanks Database contains current Leaking petroleum tanks. The data comes from the Department of Environmental Quality.

A review of the LTANKS list, as provided by EDR, and dated 11/01/2012 has revealed that there is 1 LTANKS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FRITO LAY SALES DISTRIBUTION C Facility Status: Closed	8010 WHITEBARK TER	SW 1/4 - 1/2 (0.460 mi.)	3	11

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Quality's Underground Storage Tank Data Notification Information.

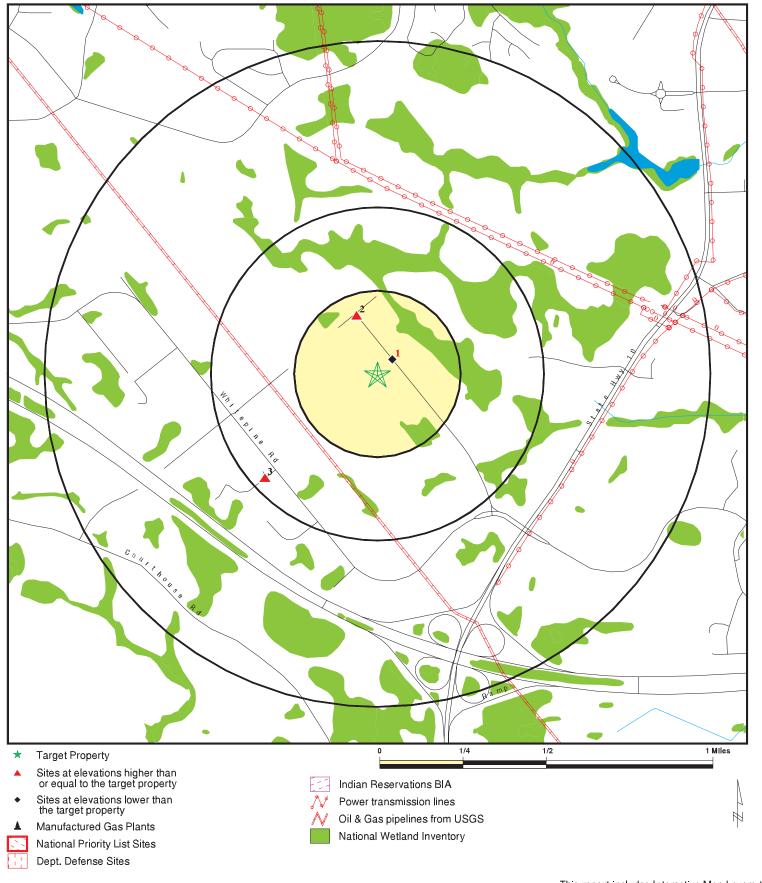
A review of the UST list, as provided by EDR, and dated 11/01/2012 has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AIRPORT PUMP STATION	7130 AIRFIELD DR	NNW 1/8 - 1/4 (0.187 mi.)	2	9
Lower Elevation	Address	Direction / Distance	Map ID	Page
AIRPORT FIRE STATION #15	7300 AIRFIELD DR	NE 0 - 1/8 (0.062 mi.)	1	7

Due to poor or inadequate address information, the following sites were not mapped. Count: 21 records.

Site Name	Database(s)
CHESTERFIELD COUNTY JUVENILE COURT	TIER 2
CHESTERFIELD COUNTY JAIL	TIER 2
CHESTERFIELD COUNTY AIRPORT	TIER 2
CHESTERFIELD COUNTY SCHOOL DISTRIC	FTTS, HIST FTTS, FINDS
CHESTERFIELD CTY LANDFILL	CERC-NFRAP
CHESTERFIELD COUNTY - FORT DARLING	SWF/LF
PARAGON	LUST, LTANKS, UST
MANCHESTR MARKETING	RCRA-SQG, FINDS
WAWA FOOD MKT 684	RCRA-CESQG, FINDS
CHESTERFIELD COUNTY SCHOOL DISTRIC	FINDS
CHESTERFIELD COUNTY	FINDS
CHESTERFIELD	SPILLS
VA. POWER- CHESTERFIELD	SPILLS
CHESTERFIELD CONVIENCE CENTER	SPILLS
CHESTERFIELD COUNTY, SR	SPILLS
CHESTERFIELD TOWN CENTER	SPILLS
RICHMOND AIRPORT	SPILLS
CHESTERFIELD CO PUBLIC SCHOOLS	ICIS
WAWA FOOD MARKET # 684	MANIFEST
WAWA FOOD MARKET NO 684	MANIFEST
WAWA FOOD MARKET NO 684	MANIFEST

OVERVIEW MAP - 3542256.16s

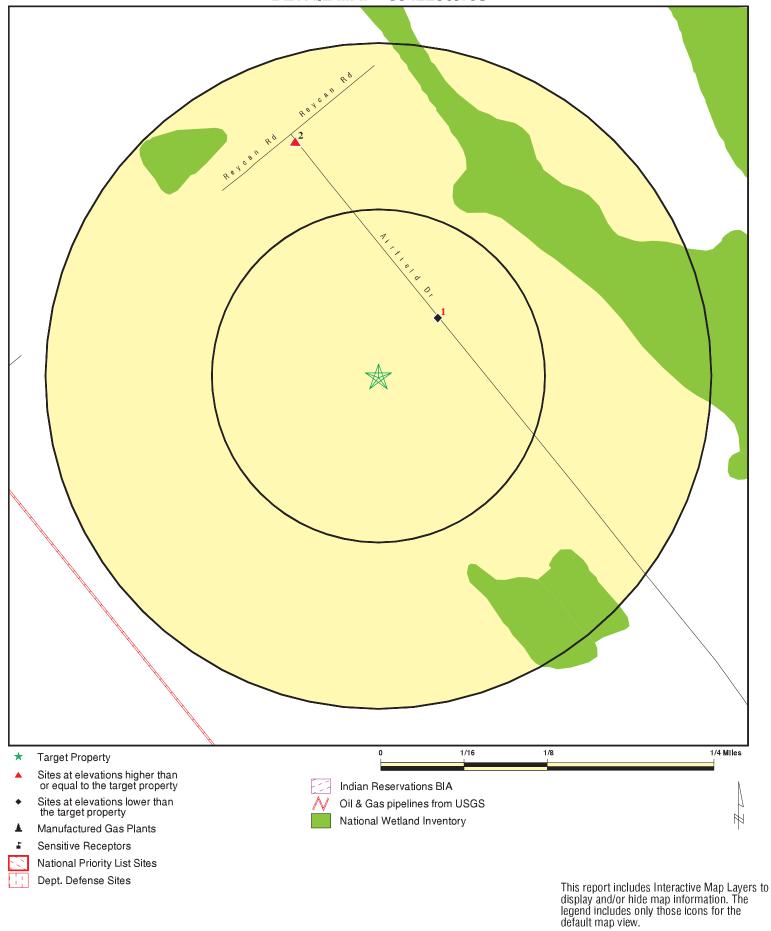


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Chesterfield Airport
ADDRESS: 7431 Airfield Drive
Richmond VA 23237
LAT/LONG: 37.4058 / 77.5197

CLIENT: EEE Consulting
CONTACT: Jennifer Jones
INQUIRY #: 3542256.16s
DATE: March 12, 2013 3:06 pm

DETAIL MAP - 3542256.16s



SITE NAME: Chesterfield Airport
ADDRESS: 7431 Airfield Drive
Richmond VA 23237
LAT/LONG: 37.4058 / 77.5197

CLIENT: EEE Consulting
CONTACT: Jennifer Jones
INQUIRY #: 3542256.16s
DATE: March 12, 2013 3:07 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMEN	TAL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 TP		0 0 NR	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0
Federal Delisted NPL sit	te list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS FEDERAL FACILITY	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFRA	P site List							
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRAC	TS facilities lis	t						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD fa	cilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generator	rs list							
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional con engineering controls reg								
US ENG CONTROLS US INST CONTROL LUCIS	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equiva	alent CERCLIS							
SHWS	N/A		N/A	N/A	N/A	N/A	N/A	N/A
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking	storage tank lis	sts						
LUST LTANKS INDIAN LUST	0.500 0.500 0.500		0 0 0	0 0 0	1 1 0	NR NR NR	NR NR NR	1 1 0
State and tribal registere	ed storage tanl	k lists						
UST	0.250		1	1	NR	NR	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST INDIAN UST FEMA UST	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
State and tribal institution control / engineering con		:						
ENG CONTROLS INST CONTROL	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal voluntary	cleanup sites	s						
VCP INDIAN VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfield	lds sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENT	TAL RECORDS							
Local Brownfield lists	0.500		•	•	•	ND	ND	•
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / So Waste Disposal Sites	olia							
DEBRIS REGION 9 ODI INDIAN ODI	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL US HIST CDL	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS SPILLS	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Other Ascertainable Records								
RCRA NonGen / NLR DOT OPS DOD FUDS CONSENT ROD UMTRA US MINES TRIS TSCA	0.250 TP 1.000 1.000 1.000 1.000 0.500 0.250 TP TP		0 NR 0 0 0 0 0 0 NR NR	0 NR 0 0 0 0 0 0 NR NR	NR NR 0 0 0 0 NR NR NR	NR NR 0 0 0 NR NR NR NR	NR NR NR NR NR NR NR NR	0 0 0 0 0 0 0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	Ö
SSTS	TP		NR	NR	NR	NR	NR	Ö
ICIS	TP		NR	NR	NR	NR	NR	Ö
PADS	TP		NR	NR	NR	NR	NR	Ö
MLTS	TP		NR	NR	NR	NR	NR	Ō
RADINFO	TP		NR	NR	NR	NR	NR	Ō
FINDS	TP		NR	NR	NR	NR	NR	Ō
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
TIER 2	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICA	L RECORDS							
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		ő	Ö	NR	NR	NR	ő
EDR US Hist Cleaners	0.250		Ö	Ö	NR	NR	NR	Õ
			-	-				-

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

Direction Distance

Elevation Site Database(s) EPA ID Number

1 AIRPORT FIRE STATION #15 UST U003966811
NE 7300 AIRFIELD DR Financial Assurance N/A

< 1/8 RICHMOND, VA 23237

0.062 mi. 329 ft.

Relative: UST: Lower Facility:

 Actual:
 Facility Id:
 4023351

 206 ft.
 Facility Type:
 LOCAL

 CEDS Facility ID:
 200000173567

Owner:

Facility Id: 4023351 Owner Id: 35704

Owner Name: Chesterfield County Fire Department

Owner Address: 10031 Iron Bridge Rd

Owner Address2: NULL

Owner City, State, Zip: Chesterfield, VA 23832

UST Status: Reg AST Status: N/A

Federally Regulated: Yes

Tank Number: 1-CC039U
Tank Capacity: 1000
Tank Contents: DIESEL
Tank Status: CURR IN USE

Tank Type: UST

Tank Material:

 Tank Type:
 UST

 Fac Id:
 4023351

 Own Id:
 35704

 Tank Number:
 1-CC039U

 Install Date:
 15-NOV-1988

 Tank Status:
 CURR IN USE

Tank Materials: Bare Steel Ν Tank Materials: Cath Protect Steel Υ Tank Materials: Epoxy Steel Ν Tank Materials: Fiberglass Ν Tank Materials: Concrete Ν Tank Materials: Composite Ν Tank Materials: Double Walled Υ Tank Materials: Lined Interior Ν Tank Materials: Excav Liner Ν Ν

Tank Materials: Insulated Tank Jacket N
Tank Materials: Repaired N
Tank Materials: Unknown N
Tank Materials: Other N

Tank Materials: Other Note Not reported

Release:

 Tank Type:
 UST

 Fac Id:
 4023351

 Own Id:
 35704

 Tank Number:
 1-CC039U

 Install Date:
 15-NOV-1988

 Tank Status:
 CURR IN USE

EDR ID Number

Direction Distance Elevation

tion Site Database(s) EPA ID Number

AIRPORT FIRE STATION #15 (Continued)

U003966811

EDR ID Number

Tank Release Detection: Leak Deferred Ν Υ Tank Release Detection: Manual Gauge Tank Release Detection: Autogauge Ν Tank Release Detection: Tank Tightness Ν Tank Release Detection: Vapor Monitor Ν Tank Release Detection: Inventory Ν Tank Release Detection: Stat Invent Recon Ν Υ Tank Release Detection: Spill Install Tank Release Detection: Overfill Install Υ Tank Release Detection: Groundwater Ν Tank Release Det: Int Secondary Containment Ν Tank Release Detection: Int Double Walled Ν Tank Release Detection: Other Method Ν

Tank Release Detection: Other Note Not reported Pipe Release Detection: Leak Deferred Not reported

Pipe Release Detection: Autoleak
N
Pipe Release Detection: Line Tightness
Y
Pipe Release Detection: Stat Invent Recon
N
Pipe Release Detection: Groundwater
N
Pipe Release Det: Int Secondary Containment
N
Pipe Release Det: Interior Double Walled
N
Pipe Release Detection: Other Method
N

Pipe Release Detection: Other Note Automatic Shutoff

Pipe Material:

 Tank Type:
 UST

 Fac Id:
 4023351

 Own Id:
 35704

 Tank Number:
 1-CC039U

 Install Date:
 15-NOV-1988

 Tank Status:
 CURR IN USE

 Pipe Type:
 NO VALVE: SUCTION

Pipe Materials: Bare Steel Ν Pipe Materials: Galvanized Steel Ν Pipe Materials: Copper Ν Pipe Materials: Fiberglass Ν Pipe Materials: Cath Protect Υ Pipe Materials: Double Walled Ν Pipe Materials: Secondary Containment Ν Pipe Materials: Repaired Ν Pipe Materials: Unknown Ν Pipe Materials: Other

Pipe Materials: Other Note RIC-WIL

VA Financial Assurance 1:

Facility ID: 4023351 FRP Financial Assurance: Full

Owner Name: Airport Fire Station #15

ROF Own Id: 35704 Tank Type: UST

Mechanism: LOGO Bond Tst/Gen Purpose

Gallonage: Not reported
Per Occurence: 30000
Third Party: 120000
Annual Aggregate: 150000

Direction Distance

Elevation Site Database(s) EPA ID Number

AIRPORT FIRE STATION #15 (Continued)

In Compliance: Not reported

Total Capacity: 0

CEDS Facility Name: Airport Fire Station 15

CEDS Facility Id: 200000173567

Tank Type Count:

RICHMOND, VA 23237

Location: Not reported

2 AIRPORT PUMP STATION UST U003684525 NNW 7130 AIRFIELD DR Financial Assurance N/A

1/8-1/4 0.187 mi. 986 ft.

Relative: UST: Higher Facility:

 Actual:
 Facility Id:
 4008623

 219 ft.
 Facility Type:
 LOCAL

CEDS Facility ID: 200000173200

Owner:

Facility Id: 4008623 Owner Id: 35740

Owner Name: Chesterfield County Utilities Department

Owner Address: 9840 Government Center Pkwy

Owner Address2: NULL

Owner City, State, Zip: Chesterfield, VA 23832

UST Status: Reg AST Status: NULL

Federally Regulated: Yes

 Tank Number:
 G1

 Tank Capacity:
 280

 Tank Contents:
 DIESEL

 Tank Status:
 CLS IN GRD

Tank Type: UST

Tank Material:

 Tank Type:
 UST

 Fac Id:
 4008623

 Own Id:
 35740

 Tank Number:
 G1

Install Date: 28-APR-1974
Tank Status: CLS IN GRD

Tank Materials: Bare Steel Υ Tank Materials: Cath Protect Steel Ν Tank Materials: Epoxy Steel Ν Tank Materials: Fiberglass Ν Tank Materials: Concrete Ν Tank Materials: Composite Ν Tank Materials: Double Walled Ν Tank Materials: Lined Interior Ν Tank Materials: Excav Liner Ν

Tank Materials: Insulated Tank Jacket N
Tank Materials: Repaired N
Tank Materials: Unknown N
Tank Materials: Other N

Tank Materials: Other Note Not reported

EDR ID Number

U003966811

Direction Distance Elevation

on Site Database(s) EPA ID Number

AIRPORT PUMP STATION (Continued)

U003684525

EDR ID Number

Release:

 Tank Type:
 UST

 Fac Id:
 4008623

 Own Id:
 35740

 Tank Number:
 G1

Install Date: 28-APR-1974
Tank Status: CLS IN GRD
Tank Release Detection: Leak Deferred N

Tank Release Detection: Manual Gauge Ν Tank Release Detection: Autogauge Ν Tank Release Detection: Tank Tightness Ν Tank Release Detection: Vapor Monitor Ν Tank Release Detection: Inventory Ν Tank Release Detection: Stat Invent Recon Ν Tank Release Detection: Spill Install Ν Tank Release Detection: Overfill Install Ν Tank Release Detection: Groundwater Ν Tank Release Det: Int Secondary Containment Ν Tank Release Detection: Int Double Walled Ν Tank Release Detection: Other Method Ν

Tank Release Detection: Other Note Not reported Pipe Release Detection: Leak Deferred Not reported

Pipe Release Detection: Autoleak
N Pipe Release Detection: Line Tightness
N Pipe Release Detection: Stat Invent Recon
N Pipe Release Detection: Groundwater
N Pipe Release Det: Int Secondary Containment
N Pipe Release Det: Interior Double Walled
N Pipe Release Detection: Other Method
N

Pipe Release Detection: Other Note Not reported

Pipe Material:

 Tank Type:
 UST

 Fac Id:
 4008623

 Own Id:
 35740

 Tank Number:
 G1

Install Date: 28-APR-1974
Tank Status: CLS IN GRD

Pipe Type: NO VALVE: SUCTION

Pipe Materials: Bare Steel Pipe Materials: Galvanized Steel Ν Pipe Materials: Copper Ν Pipe Materials: Fiberglass Ν Pipe Materials: Cath Protect Ν Pipe Materials: Double Walled Ν Pipe Materials: Secondary Containment Ν Pipe Materials: Repaired Ν Pipe Materials: Unknown Ν Pipe Materials: Other Ν

Pipe Materials: Other Note Not reported

VA Financial Assurance 1:

Facility ID: 4008623 FRP Financial Assurance: Full

Owner Name: Airport Pump Station

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

AIRPORT PUMP STATION (Continued)

U003684525

U003686162

N/A

LUST

UST

LTANKS

ROF Own Id: 35740 Tank Type: UST

Mechanism: LOGO Bond Tst/Gen Purpose

Gallonage: Not reported Per Occurence: 30000 Third Party: 120000 Annual Aggregate: 150000 In Compliance: Not reported

Total Capacity:

CEDS Facility Name: Airport Pump Station 200000173200 CEDS Facility Id:

Tank Type Count:

Location: Not reported

FRITO LAY SALES DISTRIBUTION CTR 3

SW **8010 WHITEBARK TER** 1/4-1/2 RICHMOND, VA 23237

0.460 mi. 2428 ft.

LUST REG PD: Relative:

Region: PDHigher Closed Status:

Actual: Pollution Complaint #: 19939404 216 ft. Reg Code: PRO

> Region: PDStatus: Closed Pollution Complaint #: 19900100 PRO Reg Code:

LTANKS:

PRO Region:

CEDS Facility Id: 200000171643 Case Status: Closed Pollution Complaint #: 19900100 07/20/1989 Reported:

UST:

Facility:

4016485 Facility Id: Facility Type: **COMMERCIAL** CEDS Facility ID: 200000171643

Owner:

Facility Id: 4016485 Owner Id: 28775 Owner Name: Frito-Lay Inc Owner Address: 7701 Legacy Dr

Owner Address2: **NULL**

Owner City, State, Zip: Plano, TX 75024

UST Status: NULL AST Status: NULL

Federally Regulated: Yes

Tank Number: R1

Direction Distance Elevation

tion Site Database(s) EPA ID Number

FRITO LAY SALES DISTRIBUTION CTR (Continued)

U003686162

EDR ID Number

Tank Capacity: 10000
Tank Contents: DIESEL

Tank Status: REM FROM GRD

Tank Type: UST

Tank Material:

 Tank Type:
 UST

 Fac Id:
 4016485

 Own Id:
 28775

 Tank Number:
 R1

Install Date: 06-MAY-1982
Tank Status: REM FROM GRD

Tank Materials: Bare Steel Tank Materials: Cath Protect Steel Ν Tank Materials: Epoxy Steel Ν Tank Materials: Fiberglass Ν Tank Materials: Concrete Ν Tank Materials: Composite Ν Tank Materials: Double Walled Ν Tank Materials: Lined Interior Ν Tank Materials: Excav Liner Ν Tank Materials: Insulated Tank Jacket Ν Tank Materials: Repaired Ν Tank Materials: Unknown Ν Tank Materials: Other Ν

Tank Materials: Other Note Not reported

Release:

 Tank Type:
 UST

 Fac Id:
 4016485

 Own Id:
 28775

 Tank Number:
 R1

Install Date: 06-MAY-1982
Tank Status: REM FROM GRD

Tank Release Detection: Leak Deferred Ν Tank Release Detection: Manual Gauge Ν Tank Release Detection: Autogauge Ν Tank Release Detection: Tank Tightness Ν Tank Release Detection: Vapor Monitor Ν Tank Release Detection: Inventory Ν Tank Release Detection: Stat Invent Recon Ν Tank Release Detection: Spill Install Ν Tank Release Detection: Overfill Install Ν Tank Release Detection: Groundwater Ν Tank Release Det: Int Secondary Containment Ν Tank Release Detection: Int Double Walled Ν Tank Release Detection: Other Method

Tank Release Detection: Other Note Not reported Pipe Release Detection: Leak Deferred Not reported

Pipe Release Detection: Lear Deterred

Not re
Pipe Release Detection: Autoleak

Pipe Release Detection: Line Tightness

N
Pipe Release Detection: Stat Invent Recon

N
Pipe Release Detection: Groundwater

N
Pipe Release Det: Int Secondary Containment

N
Pipe Release Det: Interior Double Walled

N
Pipe Release Detection: Other Method

Pipe Release Detection: Other Note Not reported

Map ID MAP FINDINGS Direction

Distance
Elevation Site

EDR ID Number
Database(s) EPA ID Number

FRITO LAY SALES DISTRIBUTION CTR (Continued)

U003686162

Pipe Material:

 Tank Type:
 UST

 Fac Id:
 4016485

 Own Id:
 28775

 Tank Number:
 R1

Install Date: 06-MAY-1982
Tank Status: REM FROM GRD
Pipe Type: UNKNOWN

Pipe Materials: Bare Steel Υ Pipe Materials: Galvanized Steel Ν Pipe Materials: Copper Ν Pipe Materials: Fiberglass Ν Pipe Materials: Cath Protect
Pipe Materials: Double Walled Ν Ν Pipe Materials: Secondary Containment Ν Pipe Materials: Repaired Ν Pipe Materials: Unknown Υ Pipe Materials: Other Ν

Pipe Materials: Other Note Not reported

Count: 21 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CHESTER	1003866108	CHESTERFIELD CTY LANDFILL	CARVER HEIGHTS RD	23832	CERC-NFRAP
CHESTERFIELD	S111773829	WAWA FOOD MARKET # 684	RT 1 & WOODS EDGE RD	23832	MANIFEST
CHESTERFIELD	S108851811	WAWA FOOD MARKET NO 684	RT 1 & WOODS EDGE RD	23832	MANIFEST
CHESTERFIELD	S109248185	WAWA FOOD MARKET NO 684	RT 1 & WOODS EDGE RD	23832	MANIFEST
CHESTERFIELD	1005444860	WAWA FOOD MKT 684	RT 1 & WOODS EDGE RD	23832	RCRA-CESQG, FINDS
CHESTERFIELD	1004606454	CHESTERFIELD COUNTY SCHOOL DISTRIC	P.O. BOX 10	23832	FTTS, HIST FTTS, FINDS
CHESTERFIELD	1010043585	CHESTERFIELD COUNTY SCHOOL DISTRIC	9900 CROUSE ROAD	23832	FINDS
CHESTERFIELD	S109848256	CHESTERFIELD COUNTY - FORT DARLING	FORT DARLING ROAD	23237	SWF/LF
CHESTERFIELD	U003688040	PARAGON	JEFFERSON DAVIS HWY	23832	LUST, LTANKS, UST
CHESTERFIELD	1011526968	CHESTERFIELD CO PUBLIC SCHOOLS	KRAUSE RD CHESTERFIELD VA	23832	ICIS
CHESTERFIELD	S112431313	CHESTERFIELD COUNTY JUVENILE COURT	7500 LUCY CORR BLVD	23832	TIER 2
CHESTERFIELD	S109940066	CHESTERFIELD COUNTY JAIL	6900 MIMMS DR	23832	TIER 2
CHESTERFIELD COUNTY	S109381281	CHESTERFIELD	13700 BLK HENSLEY ROAD		SPILLS
CHESTERFIELD COUNTY	S109381484	VA. POWER- CHESTERFIELD	500 BLOCK OF CHESTER		SPILLS
CHESTERFIELD COUNTY	S109380933	CHESTERFIELD CONVIENCE CENTER	LANDFILL RD.		SPILLS
CHESTERFIELD COUNTY	S109602336	CHESTERFIELD COUNTY, SR	OSBORNE ROAD		SPILLS
RICHMOND	1000448314	MANCHESTR MARKETING	RT 143	23234	RCRA-SQG, FINDS
RICHMOND	S105383905	CHESTERFIELD TOWN CENTER	RT 60		SPILLS
RICHMOND	S109940064	CHESTERFIELD COUNTY AIRPORT	7501 AIRPORT DR	23237	TIER 2
RICHMOND	S105383997	RICHMOND AIRPORT	BEULAH RD		SPILLS
RICHMOND	1011992824	CHESTERFIELD COUNTY	UNKNOWN		FINDS

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/01/2012 Source: EPA
Date Data Arrived at EDR: 10/11/2012 Telephone: N/A

Number of Days to Update: 70 Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/01/2012 Source: EPA
Date Data Arrived at EDR: 10/11/2012 Telephone: N/A

Number of Days to Update: 70 Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA Telephone: 202-564-4267 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/01/2012 Date Data Arrived at EDR: 10/11/2012 Date Made Active in Reports: 12/20/2012

Number of Days to Update: 70

Source: EPA Telephone: N/A

Last EDR Contact: 03/01/2013

Next Scheduled EDR Contact: 04/22/2013 Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 11/02/2012 Date Data Arrived at EDR: 11/28/2012 Date Made Active in Reports: 01/07/2013

Number of Days to Update: 40

Source: EPA Telephone: 703-412-9810

Last EDR Contact: 03/01/2013

Next Scheduled EDR Contact: 06/10/2013 Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/31/2012 Date Data Arrived at EDR: 10/09/2012 Date Made Active in Reports: 12/20/2012

Number of Days to Update: 72

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 01/11/2013

Next Scheduled EDR Contact: 04/22/2013 Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 11/02/2012 Date Data Arrived at EDR: 11/28/2012 Date Made Active in Reports: 01/07/2013

Number of Days to Update: 40

Source: EPA Telephone: 703-412-9810 Last EDR Contact: 01/04/2013

Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 02/12/2013 Date Data Arrived at EDR: 02/21/2013 Date Made Active in Reports: 02/27/2013

Number of Days to Update: 6

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 02/08/2013

Next Scheduled EDR Contact: 05/27/2013 Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/12/2013 Date Data Arrived at EDR: 02/15/2013 Date Made Active in Reports: 02/27/2013

Number of Days to Update: 12

Source: Environmental Protection Agency

Telephone: 800-438-2474 Last EDR Contact: 02/15/2013

Next Scheduled EDR Contact: 04/15/2013 Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013 Date Data Arrived at EDR: 02/15/2013 Date Made Active in Reports: 02/27/2013

Number of Days to Update: 12

Source: Environmental Protection Agency

Telephone: 800-438-2474 Last EDR Contact: 02/15/2013

Next Scheduled EDR Contact: 04/15/2013 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/12/2013 Date Data Arrived at EDR: 02/15/2013 Date Made Active in Reports: 02/27/2013

Number of Days to Update: 12

Source: Environmental Protection Agency

Telephone: 800-438-2474 Last EDR Contact: 02/15/2013

Next Scheduled EDR Contact: 04/15/2013 Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013 Date Data Arrived at EDR: 02/15/2013 Date Made Active in Reports: 02/27/2013

Number of Days to Update: 12

Source: Environmental Protection Agency

Telephone: 800-438-2474 Last EDR Contact: 02/15/2013

Next Scheduled EDR Contact: 04/15/2013 Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/19/2012 Date Data Arrived at EDR: 12/26/2012 Date Made Active in Reports: 02/27/2013

Number of Days to Update: 63

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 03/11/2013

Next Scheduled EDR Contact: 06/24/2013 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/19/2012 Date Data Arrived at EDR: 12/26/2012 Date Made Active in Reports: 02/27/2013

Number of Days to Update: 63

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 03/11/2013

Next Scheduled EDR Contact: 06/24/2013 Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005 Date Data Arrived at EDR: 12/11/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 31

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 02/18/2013

Next Scheduled EDR Contact: 06/03/2013 Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 01/17/2013 Date Made Active in Reports: 02/15/2013

Number of Days to Update: 29

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 01/17/2013

Next Scheduled EDR Contact: 04/15/2013 Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: Department of Environmental Quality

Telephone: 804-698-4236 Last EDR Contact: 12/18/2012

Next Scheduled EDR Contact: 04/08/2013

Data Release Frequency: N/A

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Management Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/21/2012 Date Data Arrived at EDR: 09/21/2012 Date Made Active in Reports: 10/11/2012

Number of Days to Update: 20

Source: Department of Environmental Quality

Telephone: 804-698-4238 Last EDR Contact: 03/11/2013

Next Scheduled EDR Contact: 06/24/2013 Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG SW: Leaking Underground Storage Tank Database

Leaking underground storage tank site locations. Includes: counties of Bland, Buchanan, Carroll, Dickenson, Grayson, Lee, Russell, Scott, Smyth, Tazewell, Washington, Wise, Wythe; cities of Bristol, Galax, Norton.

Date of Government Version: 01/23/2013 Date Data Arrived at EDR: 01/24/2013 Date Made Active in Reports: 02/19/2013

Number of Days to Update: 26

Source: Department of Environmental Quality Southwest Regional Office

Telephone: 276-676-4800 Last EDR Contact: 01/14/2013

Next Scheduled EDR Contact: 04/29/2013 Data Release Frequency: No Update Planned

LUST REG SC: Leaking Underground Storage Tanks

Leaking underground storage tank site locations. Includes: counties of Amherst, Appomattox, Buckingham, Campbell, Charlotte, Cumberland, Halifax, Lunenburg, Mecklenburg, Nottoway, Pittsylvania, Prince Deward; cities of Danville, Lynchburg.

Date of Government Version: 12/05/2012 Date Data Arrived at EDR: 12/06/2012 Date Made Active in Reports: 02/19/2013

Number of Days to Update: 75

Source: Department of Environmental Quality, South Central Region

Telephone: 434-582-5120 Last EDR Contact: 03/04/2013

Next Scheduled EDR Contact: 06/17/2013 Data Release Frequency: Semi-Annually

LUST REG PD: Leaking Underground Storage Tank Sites

Leaking underground storage tank site locaitons. Includes: counties of Amelia, Brunswick, Charles City, Chesterfield, Dinwiddie, Essex, Gloucester, Goochland, Greensville, Hanover, Henrico, King and Queen, King William, Lancaster, Mathews, Middlesex, New Kent, Northumberland, Powhatan, Prince George, Richmond, Surry, Sussex, Westmoreland; cities of Colonial Heights, Emporia, Hopewell, Petersburg.

Date of Government Version: 12/05/2012 Date Data Arrived at EDR: 12/06/2012 Date Made Active in Reports: 02/19/2013

Number of Days to Update: 75

Source: Department of Environmental Quality Piedmont Regional Office

Telephone: 804-527-5020 Last EDR Contact: 03/04/2013

Next Scheduled EDR Contact: 06/17/2013 Data Release Frequency: Quarterly

LUST REG NO: Leaking Underground Storage Tank Tracking Database

Leaking underground storage tank site locations. Includes: counties of Arlington, Caroline, Culpeper, Fairfax, Fauquier, King George, Loudoun, Louisa, Madison, Orange, Prince William, Rappahannock, Spotsylvania, Stafford; cities of Alexandria, Fairfax, Falls Church, Fredericksburg, Manassas, Manassas Park.

Date of Government Version: 05/18/2004 Date Data Arrived at EDR: 05/22/2004 Date Made Active in Reports: 07/09/2004

Number of Days to Update: 48

Source: Department of Environmental Quality Northern Regional Office

Telephone: 703-583-3800 Last EDR Contact: 09/06/2011

Next Scheduled EDR Contact: 12/19/2011 Data Release Frequency: No Update Planned

LUST REG TD: Leaking Underground Storage Tank Sites

Leaking underground storage tank site locations. Includes: counties of Accomack, Isle of Wight, James City, Northampton, Southampton, York; cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, Williamsburg.

Date of Government Version: 01/03/2013 Date Data Arrived at EDR: 01/04/2013 Date Made Active in Reports: 02/19/2013

Number of Days to Update: 46

Source: Department of Environmental Quality Tidewater Regional Office

Telephone: 757-518-2198 Last EDR Contact: 01/02/2013

Next Scheduled EDR Contact: 04/15/2013 Data Release Frequency: Quarterly

LUST REG WC: Leaking Underground Storage Tank List

Leaking underground storage tank site locations. Includes: counties of Alleghany, Bedford, Botetourt, Craig, Floyd, Franklin, Giles, Henry, Montgomery, Patrick, Pulaski, Roanoke; cities of Bedford, Clifton Forge, Covington, Martinsville, Radford, Roanoke, Salem.

Date of Government Version: 12/07/2012 Date Data Arrived at EDR: 12/12/2012 Date Made Active in Reports: 02/19/2013

Number of Days to Update: 69

Source: Department of Environmental Quality West Central Regional Office

Telephone: 540-562-6700 Last EDR Contact: 03/04/2013

Next Scheduled EDR Contact: 06/17/2013

Data Release Frequency: No Update Planned

LUST REG VA: Leaking Underground Storage Tank List

Leaking underground storage tank site locations. Includes: counties of Albemarle, Augusta, Bath, Clarke, Fluvanna, Frederick, Greene, Highland, Nelson, Page, Rockbridge, Rockingham, Shenandoah, Warren; cities of Buena Vista, Charlottesville, Harrisonburg, Lexington, Staunton, Waynesboro, Winchester.

Date of Government Version: 12/06/2011 Date Data Arrived at EDR: 12/08/2011 Date Made Active in Reports: 01/16/2012

Number of Days to Update: 39

Source: Department of Environmental Quality Valley Regional Office

Telephone: 540-574-7800 Last EDR Contact: 03/04/2013

Next Scheduled EDR Contact: 06/17/2013

Data Release Frequency: No Update Planned

LTANKS: Leaking Petroleum Storage Tanks

Includes releases of petroleum from underground storage tanks and aboveground storage tanks.

Date of Government Version: 11/01/2012 Date Data Arrived at EDR: 12/05/2012 Date Made Active in Reports: 02/19/2013

Number of Days to Update: 76

Source: Department of Environmental Quality

Telephone: 804-698-4010 Last EDR Contact: 03/17/2013

Next Scheduled EDR Contact: 06/17/2013 Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011 Date Data Arrived at EDR: 09/13/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 59

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 01/28/2013

Next Scheduled EDR Contact: 05/13/2013 Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/17/2012 Date Data Arrived at EDR: 08/28/2012 Date Made Active in Reports: 10/16/2012

Number of Days to Update: 49

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 01/28/2013

Next Scheduled EDR Contact: 05/13/2013 Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012 Date Data Arrived at EDR: 08/28/2012 Date Made Active in Reports: 10/16/2012

Number of Days to Update: 49

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 01/28/2013

Next Scheduled EDR Contact: 05/13/2013 Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/12/2012 Date Data Arrived at EDR: 05/09/2012 Date Made Active in Reports: 07/10/2012

Number of Days to Update: 62

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 02/01/2013

Next Scheduled EDR Contact: 05/13/2013 Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/01/2012 Date Data Arrived at EDR: 08/02/2012 Date Made Active in Reports: 10/16/2012

Number of Days to Update: 75

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 10/30/2012

Next Scheduled EDR Contact: 05/13/2013 Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011 Date Data Arrived at EDR: 12/15/2011 Date Made Active in Reports: 01/10/2012 Number of Days to Update: 26 Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 01/28/2013

Next Scheduled EDR Contact: 05/13/2013 Data Release Frequency: Semi-Annually

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/06/2012 Date Data Arrived at EDR: 09/07/2012 Date Made Active in Reports: 10/16/2012

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 01/28/2013

Next Scheduled EDR Contact: 05/13/2013 Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Registered Petroleum Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 11/01/2012 Date Data Arrived at EDR: 12/05/2012 Date Made Active in Reports: 02/15/2013

Number of Days to Update: 72

Source: Department of Environmental Quality

Telephone: 804-698-4010 Last EDR Contact: 03/07/2013

Next Scheduled EDR Contact: 06/17/2013 Data Release Frequency: Semi-Annually

AST: Registered Petroleum Storage Tanks Registered Aboveground Storage Tanks.

Date of Government Version: 11/01/2012 Date Data Arrived at EDR: 12/05/2012 Date Made Active in Reports: 02/19/2013

Number of Days to Update: 76

Source: Department of Environmental Quality

Telephone: 804-698-4010 Last EDR Contact: 03/07/2013

Next Scheduled EDR Contact: 06/17/2013 Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/12/2012 Date Data Arrived at EDR: 05/02/2012 Date Made Active in Reports: 07/16/2012

Number of Days to Update: 75

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 02/01/2013

Next Scheduled EDR Contact: 05/13/2013 Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/14/2011 Date Data Arrived at EDR: 12/15/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 26

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 01/28/2013

Next Scheduled EDR Contact: 05/13/2013 Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/02/2012 Date Data Arrived at EDR: 08/03/2012 Date Made Active in Reports: 11/05/2012

Number of Days to Update: 94

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 01/28/2013

Next Scheduled EDR Contact: 05/13/2013 Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011 Date Data Arrived at EDR: 05/11/2011 Date Made Active in Reports: 06/14/2011

Number of Days to Update: 34

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 01/28/2013

Next Scheduled EDR Contact: 05/13/2013 Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 08/17/2012 Date Data Arrived at EDR: 08/28/2012 Date Made Active in Reports: 10/16/2012

Number of Days to Update: 49

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 01/28/2013

Next Scheduled EDR Contact: 05/13/2013 Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/27/2012 Date Data Arrived at EDR: 08/28/2012 Date Made Active in Reports: 10/16/2012

Number of Days to Update: 49

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 01/28/2013

Next Scheduled EDR Contact: 05/13/2013 Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 08/01/2012 Date Data Arrived at EDR: 08/02/2012 Date Made Active in Reports: 10/16/2012

Number of Days to Update: 75

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 01/28/2013

Next Scheduled EDR Contact: 05/13/2013 Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 09/06/2012 Date Data Arrived at EDR: 09/07/2012 Date Made Active in Reports: 10/16/2012

Number of Days to Update: 39

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 01/28/2013

Next Scheduled EDR Contact: 05/13/2013 Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010 Date Data Arrived at EDR: 02/16/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 55

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 01/14/2013

Next Scheduled EDR Contact: 04/29/2013 Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Sites Listing

A listing of sites with Engineering Controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/07/2013 Date Data Arrived at EDR: 01/10/2013 Date Made Active in Reports: 02/15/2013

Number of Days to Update: 36

Source: Department of Environmental Quality

Telephone: 804-698-4228 Last EDR Contact: 01/02/2013

Next Scheduled EDR Contact: 04/15/2013 Data Release Frequency: Quarterly

INST CONTROL: Voluntary Remediation Program Database

Sites included in the Voluntary Remediation Program database that have deed restrictions.

Date of Government Version: 01/07/2013 Date Data Arrived at EDR: 01/10/2013 Date Made Active in Reports: 02/15/2013

Number of Days to Update: 36

Source: Department of Environmental Quality

Telephone: 804-698-4228 Last EDR Contact: 01/02/2013

Next Scheduled EDR Contact: 04/15/2013 Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

VRP: Voluntary Remediation Program

The Voluntary Cleanup Program encourages owners of elected contaminated sites to take the initiative and conduct voluntary cleanups that meet state environmental standards.

Date of Government Version: 01/07/2013 Date Data Arrived at EDR: 01/10/2013 Date Made Active in Reports: 02/15/2013

Number of Days to Update: 36

Source: Department of Environmental Quality

Telephone: 804-698-4228 Last EDR Contact: 01/02/2013

Next Scheduled EDR Contact: 04/15/2013 Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012 Date Data Arrived at EDR: 10/02/2012 Date Made Active in Reports: 10/16/2012

Number of Days to Update: 14

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 01/04/2013

Next Scheduled EDR Contact: 04/15/2013 Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009

Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site Specific Assessments

To qualify for Brownfields Assessment, the site must meet the Federal definition of a Brownfields and should have contaminant issues that need to be addressed and a redevelopment plan supported by the local government and community. Virginia's Department of Environmental Quality performs brownfields assessments under a cooperative agreement with the U.S. Environmental Protection Agency at no cost to communities, property owners or, prospective purchasers. The assessment is an evaluation of environmental impacts caused by previous site uses similar to a Phase II Environmental Assessment.

Date of Government Version: 01/29/2013 Date Data Arrived at EDR: 02/01/2013 Date Made Active in Reports: 02/19/2013

Number of Days to Update: 18

Source: Department of Environmental Quality

Telephone: 804-698-4207 Last EDR Contact: 01/29/2013

Next Scheduled EDR Contact: 05/13/2013

Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/10/2012 Date Data Arrived at EDR: 12/11/2012 Date Made Active in Reports: 12/20/2012

Number of Days to Update: 9

Source: Environmental Protection Agency Telephone: 202-566-2777

Last EDR Contact: 02/14/2013

Next Scheduled EDR Contact: 04/08/2013 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 01/28/2013

Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 02/05/2013

Next Scheduled EDR Contact: 05/20/2013 Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/14/2012 Date Data Arrived at EDR: 12/11/2012 Date Made Active in Reports: 02/15/2013

Number of Days to Update: 66

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 03/04/2013

Next Scheduled EDR Contact: 06/17/2013 Data Release Frequency: Quarterly

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007 Date Data Arrived at EDR: 11/19/2008 Date Made Active in Reports: 03/30/2009

Number of Days to Update: 131

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 03/23/2009

Next Scheduled EDR Contact: 06/22/2009 Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/16/2012 Date Data Arrived at EDR: 03/26/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 80

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 01/28/2013

Next Scheduled EDR Contact: 05/13/2013 Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2012 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 02/27/2013

Number of Days to Update: 55

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 01/03/2013

Next Scheduled EDR Contact: 04/15/2013 Data Release Frequency: Annually

SPILLS PD: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 10/20/2009 Date Data Arrived at EDR: 10/29/2009 Date Made Active in Reports: 12/03/2009

Number of Days to Update: 35

Source: Department of Environmental Quality, Piedmont Region

Telephone: 804-527-5020 Last EDR Contact: 02/06/2012

Next Scheduled EDR Contact: 05/21/2012 Data Release Frequency: Quarterly

SPILLS: Prep/Spills Database Listing

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment. PREP staff often work to assist local emergency responders, other state agencies, federal agencies, and responsible parties, as may be needed, to manage pollution incidents. Oil spills, fish kills, and hazardous materials spills are examples of incidents that may involve the DEQ's PREP Program.

Date of Government Version: 11/01/2012 Date Data Arrived at EDR: 12/05/2012 Date Made Active in Reports: 02/19/2013

Number of Days to Update: 76

Source: Department of Environmental Quality

Telephone: 804-698-4287 Last EDR Contact: 03/07/2013

Next Scheduled EDR Contact: 06/17/2013 Data Release Frequency: Varies

SPILLS BRL: Prep/Spills Database Listing

A listing of spills locations located in the Blue Ridge Regional area, Lynchburg.

Date of Government Version: 09/18/2009 Date Data Arrived at EDR: 09/18/2009 Date Made Active in Reports: 10/06/2009

Number of Days to Update: 18

Source: DEQ, Blue Ridge Regional Office

Telephone: 434-582-6218 Last EDR Contact: 11/28/2011

Next Scheduled EDR Contact: 03/12/2012 Data Release Frequency: Varies

SPILLS TD: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 09/17/2009 Date Data Arrived at EDR: 09/23/2009 Date Made Active in Reports: 10/06/2009

Number of Days to Update: 13

Source: Department of Environmental Quality, Tidewater Region

Telephone: 757-518-2177 Last EDR Contact: 09/06/2011

Next Scheduled EDR Contact: 12/19/2011 Data Release Frequency: Quarterly

SPILLS WC: Prep Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 09/21/2009 Date Data Arrived at EDR: 09/29/2009 Date Made Active in Reports: 10/30/2009

Number of Days to Update: 31

Source: Department of Environmental Quality, West Central Region

Telephone: 540-562-6700 Last EDR Contact: 09/06/2011

Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

SPILLS VA: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 08/08/2012 Date Data Arrived at EDR: 08/09/2012 Date Made Active in Reports: 10/05/2012

Number of Days to Update: 57

Source: Department of Environmental Quality, Valley Regional Office

Telephone: 540-574-7800 Last EDR Contact: 02/04/2013

Next Scheduled EDR Contact: 05/20/2013 Data Release Frequency: Quarterly

PC-SPILLS: Pollution Complaint Database

Pollution Complaints Database. The pollution reports contained in the PC database include the initial release reporting of Leaking Underground Storage Tanks and all other releases of petroleum to the environment as well as releases to state waters. The database is current through 12/1/93. Since that time, all spill and pollution reporting information has been collected and tracked through the DEQ regional offices.

Date of Government Version: 06/01/1996 Date Data Arrived at EDR: 10/22/1996 Date Made Active in Reports: 11/21/1996

Number of Days to Update: 30

Source: Department of Environmental Quality

Telephone: 804-698-4287 Last EDR Contact: 03/08/2010

Next Scheduled EDR Contact: 06/21/2010
Data Release Frequency: No Update Planned

SPILLS NO: PREP Database

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 09/23/2009 Date Data Arrived at EDR: 09/29/2009 Date Made Active in Reports: 10/30/2009

Number of Days to Update: 31

Source: Department of Environmental Quality, Northern Region

Telephone: 703-583-3864 Last EDR Contact: 09/06/2011

Next Scheduled EDR Contact: 12/19/2011 Data Release Frequency: No Update Planned

SPILLS SW: Reportable Spills

The Department of Environmental Quality's POLLUTION RESPONSE PROGRAM, known as PREP, provides for responses to air, water, and waste pollution incidents in order to protect human health and the environment.

Date of Government Version: 01/21/2010 Date Data Arrived at EDR: 01/22/2010 Date Made Active in Reports: 02/16/2010

Number of Days to Update: 25

Source: Department of Environmental Quality, Southwest Region

Telephone: 276-676-4839 Last EDR Contact: 07/13/2012

Next Scheduled EDR Contact: 10/29/2012 Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/12/2013 Date Data Arrived at EDR: 02/15/2013 Date Made Active in Reports: 02/27/2013

Number of Days to Update: 12

Source: Environmental Protection Agency

Telephone: 800-438-2474 Last EDR Contact: 02/15/2013

Next Scheduled EDR Contact: 04/15/2013 Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012 Date Data Arrived at EDR: 08/07/2012 Date Made Active in Reports: 09/18/2012

Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 02/05/2013

Next Scheduled EDR Contact: 05/20/2013 Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Source: USGS Telephone: 888-275-8747 Last EDR Contact: 01/17/2013

Next Scheduled EDR Contact: 04/29/2013 Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 08/12/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 112

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 03/11/2013

Next Scheduled EDR Contact: 06/24/2013 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 10/01/2012 Date Data Arrived at EDR: 10/19/2012 Date Made Active in Reports: 12/20/2012

Number of Days to Update: 62

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 12/28/2012

Next Scheduled EDR Contact: 04/15/2013 Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 02/27/2012 Date Data Arrived at EDR: 03/14/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 92

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 12/11/2012

Next Scheduled EDR Contact: 03/25/2013 Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012

Number of Days to Update: 146

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 02/25/2013

Next Scheduled EDR Contact: 06/10/2013 Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011 Date Data Arrived at EDR: 09/08/2011 Date Made Active in Reports: 09/29/2011

Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 03/06/2013

Next Scheduled EDR Contact: 06/17/2013 Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 09/01/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 131

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 02/26/2013

Next Scheduled EDR Contact: 06/10/2013 Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 09/29/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 64

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 12/28/2012

Next Scheduled EDR Contact: 04/08/2013 Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA,

TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 02/25/2013

Next Scheduled EDR Contact: 06/10/2013 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA Telephone: 202-566-1667 Last EDR Contact: 02/25/2013

Next Scheduled EDR Contact: 06/10/2013 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011

Number of Days to Update: 77

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 01/28/2013

Next Scheduled EDR Contact: 05/13/2013 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011 Date Data Arrived at EDR: 11/10/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 61

Source: Environmental Protection Agency

Telephone: 202-564-5088 Last EDR Contact: 01/17/2013

Next Scheduled EDR Contact: 04/29/2013 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010 Date Data Arrived at EDR: 11/10/2010 Date Made Active in Reports: 02/16/2011

Number of Days to Update: 98

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 01/16/2013

Next Scheduled EDR Contact: 04/29/2013 Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011 Date Data Arrived at EDR: 07/15/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 60

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 03/11/2013

Next Scheduled EDR Contact: 06/24/2013 Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2012 Date Data Arrived at EDR: 10/02/2012 Date Made Active in Reports: 11/05/2012

Number of Days to Update: 34

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 01/09/2013

Next Scheduled EDR Contact: 04/22/2013 Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011 Date Data Arrived at EDR: 12/13/2011 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 79

Source: EPA

Telephone: (215) 814-5000 Last EDR Contact: 12/11/2012

Next Scheduled EDR Contact: 03/25/2013 Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012 Date Data Arrived at EDR: 05/25/2012 Date Made Active in Reports: 07/10/2012

Number of Days to Update: 46

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 01/28/2013

Next Scheduled EDR Contact: 05/13/2013 Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 03/01/2011

Date Made Active in Reports: 05/02/2011

Number of Days to Update: 62

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 02/26/2013

Next Scheduled EDR Contact: 06/10/2013 Data Release Frequency: Biennially

UIC: Underground Injection Control Wells

A listing of underground injection controls wells.

Date of Government Version: 01/17/2013 Date Data Arrived at EDR: 02/07/2013 Date Made Active in Reports: 02/19/2013

Number of Days to Update: 12

Source: Department of Mines, Minerals and Energy

Telephone: 276-415-9700 Last EDR Contact: 01/09/2013

Next Scheduled EDR Contact: 05/20/2013 Data Release Frequency: Varies

DRYCLEANERS: Drycleaner List
A listing of registered drycleaners.

Date of Government Version: 11/23/2010 Date Data Arrived at EDR: 11/24/2010 Date Made Active in Reports: 12/09/2010

Number of Days to Update: 15

Source: Department of Environmental Quality

Telephone: 804-698-4407 Last EDR Contact: 01/14/2013

Next Scheduled EDR Contact: 04/29/2013 Data Release Frequency: Varies

ENFORCEMENT: Enforcement Actions Data A listing of enforcement actions.

Date of Government Version: 12/17/2012 Date Data Arrived at EDR: 12/17/2012 Date Made Active in Reports: 02/15/2013

Number of Days to Update: 60

Source: Department of Environmental Quality

Telephone: 804-698-4031 Last EDR Contact: 03/11/2013

Next Scheduled EDR Contact: 06/24/2013 Data Release Frequency: Varies

CEDS: Comprehensive Environmental Data System

Virginia Water Protection Permits, Virginia Pollution Discharge System (point discharge) permits and Virginia Pollution Abatement (no point discharge) permits.

Date of Government Version: 12/11/2012 Date Data Arrived at EDR: 12/12/2012 Date Made Active in Reports: 02/19/2013

Number of Days to Update: 69

Source: Department of Environmental Quality

Telephone: 804-698-4077 Last EDR Contact: 03/11/2013

Next Scheduled EDR Contact: 06/24/2013 Data Release Frequency: Semi-Annually

AIRS: Permitted Airs Facility List
A listing of permitted Airs facilities.

Date of Government Version: 12/03/2012 Date Data Arrived at EDR: 12/05/2012 Date Made Active in Reports: 02/19/2013

Number of Days to Update: 76

Source: Department of Environmental Quality

Telephone: 804-698-4000 Last EDR Contact: 03/04/2013

Next Scheduled EDR Contact: 06/17/2013 Data Release Frequency: Varies

TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2011 Date Data Arrived at EDR: 12/21/2012 Date Made Active in Reports: 02/19/2013

Number of Days to Update: 60

Source: Department of Environmental Quality

Telephone: 804-698-4159 Last EDR Contact: 12/18/2012

Next Scheduled EDR Contact: 04/08/2013 Data Release Frequency: Annually

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater

than 640 acres.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 12/08/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 34

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 01/17/2013

Next Scheduled EDR Contact: 04/29/2013 Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011 Date Data Arrived at EDR: 03/09/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 54

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 01/21/2013

Next Scheduled EDR Contact: 05/06/2013 Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012

Number of Days to Update: 83

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 02/01/2013

Next Scheduled EDR Contact: 05/13/2013 Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites

A listing of facilities with coal ash impoundments.

Date of Government Version: 07/29/2009 Date Data Arrived at EDR: 07/31/2009 Date Made Active in Reports: 08/21/2009

Number of Days to Update: 21

Source: Department of Environmental Protection

Telephone: 804-698-4285 Last EDR Contact: 03/11/2013

Next Scheduled EDR Contact: 06/24/2013 Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 01/17/2013

Next Scheduled EDR Contact: 04/29/2013

Data Release Frequency: N/A

COAL ASH DOE: Sleam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 01/15/2013

Next Scheduled EDR Contact: 04/29/2013 Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010 Date Data Arrived at EDR: 01/03/2011 Date Made Active in Reports: 03/21/2011

Number of Days to Update: 77

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 12/11/2012

Next Scheduled EDR Contact: 03/25/2013 Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 12/06/2012 Date Data Arrived at EDR: 12/06/2012 Date Made Active in Reports: 02/15/2013

Number of Days to Update: 71

Source: Department of Environmental Quality

Telephone: 804-698-4205 Last EDR Contact: 03/05/2013

Next Scheduled EDR Contact: 06/17/2013 Data Release Frequency: Varies

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011 Date Data Arrived at EDR: 05/18/2012 Date Made Active in Reports: 05/25/2012

Number of Days to Update: 7

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 02/15/2013

Next Scheduled EDR Contact: 05/27/2013 Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information listing

Solid waste financial assurance information.

Date of Government Version: 11/05/2012 Date Data Arrived at EDR: 11/08/2012 Date Made Active in Reports: 12/11/2012

Number of Days to Update: 33

Source: Department of Environmental Quality

Telephone: 804-698-4123 Last EDR Contact: 02/04/2013

Next Scheduled EDR Contact: 05/20/2013

Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 11/20/2012 Date Data Arrived at EDR: 11/30/2012 Date Made Active in Reports: 02/27/2013

Number of Days to Update: 89

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 02/19/2013

Next Scheduled EDR Contact: 06/03/2013 Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 07/31/2012 Date Data Arrived at EDR: 08/13/2012 Date Made Active in Reports: 09/18/2012

Number of Days to Update: 36

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 02/12/2013

Next Scheduled EDR Contact: 05/27/2013 Data Release Frequency: Quarterly

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/01/2012 Date Data Arrived at EDR: 10/04/2012 Date Made Active in Reports: 11/05/2012

Number of Days to Update: 32

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 01/03/2013

Next Scheduled EDR Contact: 04/15/2013 Data Release Frequency: Quarterly

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 11/15/2012 Date Data Arrived at EDR: 11/16/2012 Date Made Active in Reports: 02/15/2013

Number of Days to Update: 91

Source: EPA

Telephone: 202-564-5962 Last EDR Contact: 12/28/2012

Next Scheduled EDR Contact: 04/15/2013 Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 11/15/2012 Date Data Arrived at EDR: 11/16/2012 Date Made Active in Reports: 02/15/2013

Number of Days to Update: 91

Source: EPA

Telephone: 202-564-5962 Last EDR Contact: 12/28/2012

Next Scheduled EDR Contact: 04/15/2013 Data Release Frequency: Annually

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Data Release Frequency: No Update Planned

Date of Government Version: N/A Source: EDR, Inc.
Date Data Arrived at EDR: N/A Telephone: N/A
Date Made Active in Reports: N/A Last EDR Contact: N/A

Number of Days to Update: N/A Next Scheduled EDR Contact: N/A

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Source: EDR, Inc.
Date Data Arrived at EDR: N/A Telephone: N/A
Date Made Active in Reports: N/A Last EDR Contact: N/A

Number of Days to Update: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Source: EDR, Inc.
Date Data Arrived at EDR: N/A Telephone: N/A
Date Made Active in Reports: N/A Last EDR Contact: N/A

Number of Days to Update: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A

Date Data Arrived at EDR: N/A

Date Made Active in Reports: N/A

Last EDR Contact: N/A

Number of Days to Update: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A

Date Data Arrived at EDR: N/A

Date Made Active in Reports: N/A

Last EDR Contact: N/A

Number of Days to Update: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/19/2012 Date Data Arrived at EDR: 11/19/2012 Date Made Active in Reports: 01/03/2013

Number of Days to Update: 45

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 02/18/2013

Next Scheduled EDR Contact: 06/03/2013 Data Release Frequency: Annually

Source: Department of Environmental Protection

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011 Date Data Arrived at EDR: 07/19/2012 Date Made Active in Reports: 08/28/2012

Number of Days to Update: 40

Next Scheduled EDR Contact: 04/29/2013 Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD

Telephone: N/A

facility.

Date of Government Version: 11/01/2012 Date Data Arrived at EDR: 11/07/2012 Date Made Active in Reports: 12/11/2012

Number of Days to Update: 34

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 02/07/2013

Next Scheduled EDR Contact: 05/20/2013 Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011 Date Data Arrived at EDR: 07/23/2012 Date Made Active in Reports: 09/18/2012

Number of Days to Update: 57

Source: Department of Environmental Protection

Telephone: 717-783-8990 Last EDR Contact: 01/21/2013

Next Scheduled EDR Contact: 05/06/2013 Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2011 Date Data Arrived at EDR: 06/22/2012 Date Made Active in Reports: 07/31/2012

Number of Days to Update: 39

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 02/25/2013

Next Scheduled EDR Contact: 06/10/2013 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011 Date Data Arrived at EDR: 07/19/2012 Date Made Active in Reports: 09/27/2012

Number of Days to Update: 70

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 12/13/2012

Next Scheduled EDR Contact: 04/01/2013 Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: Rextag Strategies Corp. Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities Source: Department of Social Services

Telephone: 804-692-1900

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CHESTERFIELD AIRPORT 7431 AIRFIELD DRIVE RICHMOND, VA 23237

TARGET PROPERTY COORDINATES

Latitude (North): 37.4058 - 37° 24' 20.88" Longitude (West): 77.5197 - 77° 31' 10.92"

Universal Tranverse Mercator: Zone 18 UTM X (Meters): 276979.5 UTM Y (Meters): 4142666.5

Elevation: 210 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 37077-D5 CHESTERFIELD, VA

Most Recent Revision: 1994

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

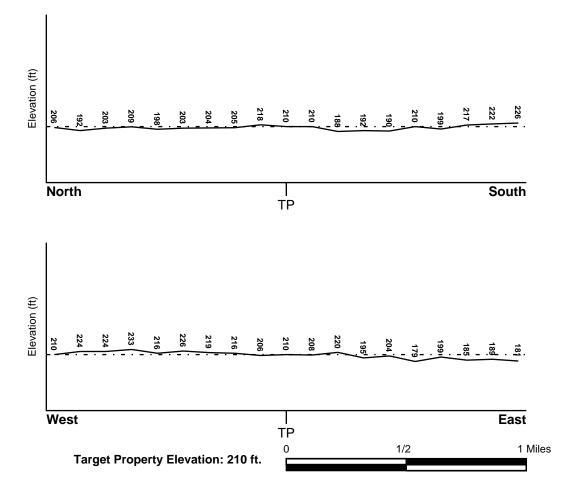
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County FEMA Flood Electronic Data

CHESTERFIELD, VA Not Available

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property Data Coverage

CHESTERFIELD YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles
Location Relative to TP: 1 - 2 Miles ENE

Site Name: Virginina Air National Guard

Site EPA ID Number: VA0572890002

Surficial Aquifer Flow Dir.: TOWARD LOCAL STREAMS WITHIN THE WHITE OAK CREEK WATERSHED.

Inferred Depth to Water: 1 foot to 15 feet.

Hydraulic Connection: The surficial Yorktown aquifer is unconfined and underlain by three

confined (artesian) aquifers.

Sole Source Aquifer:

No information about a sole source aquifer is available

Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

LOCATION GENERAL DIRECTION

MAP ID FROM TP GROUNDWATER FLOW

Not Reported

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

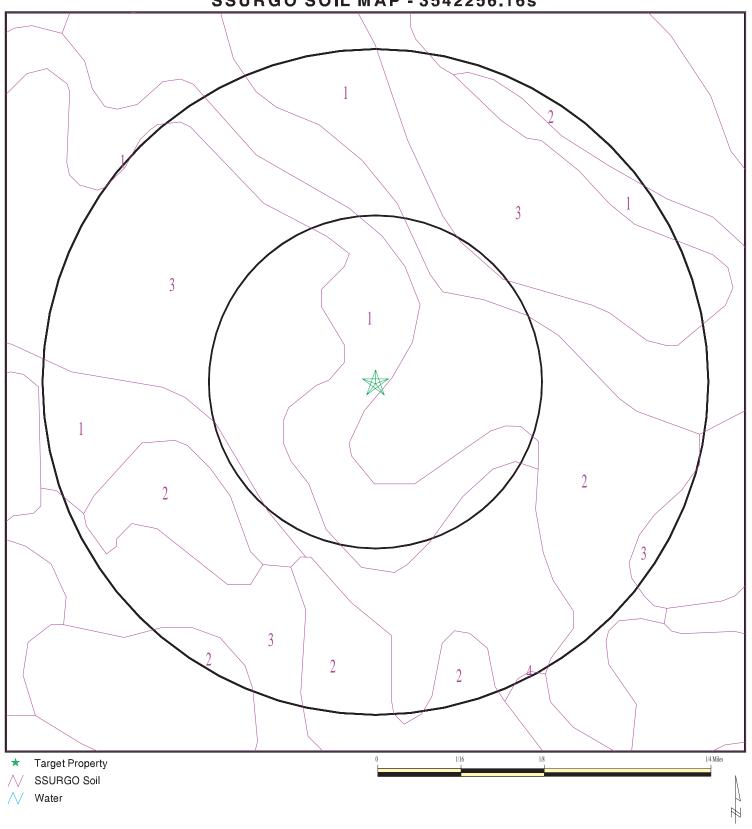
Era: Cenozoic Category: Stratified Sequence

System: Tertiary Series: Miocene

Code: Tm (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 3542256.16s



SITE NAME: Chesterfield Airport ADDRESS: 7431 Airfield Drive Richmond VA 23237 LAT/LONG: 37.4058 / 77.5197 CLIENT: EEE Consulting
CONTACT: Jennifer Jones
INQUIRY#: 3542256.16s

DATE: March 12, 2013 3:08 pm

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Colfax variant

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

			Soil Laye	r Information			
	Boundary			Classi	fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	9 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6 Min: 3.6
2	9 inches	16 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6 Min: 3.6
3	16 inches	20 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6 Min: 3.6
4	20 inches	51 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6 Min: 3.6

	Soil Layer Information									
	Boundary			Classification		Saturated hydraulic				
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		Oon Reaction			
5	51 inches	72 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6 Min: 3.6			

Soil Map ID: 2

Soil Component Name: Bourne

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

			Soil Layer	Information				
	Вои	ındary		Classi	fication	Saturated hydraulic		
Layer	Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	11 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 1.4	Max: 6 Min: 3.6	
2	11 inches	22 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 1.4	Max: 6 Min: 3.6	

			Soil Layer	Information			
	Bou	ındary		Classi	fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
3	22 inches	44 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 1.4	Max: 6 Min: 3.6
4	44 inches	72 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 1.4	Max: 6 Min: 3.6

Soil Map ID: 3

Soil Component Name: Aquults

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

	Soil Layer Information										
Boundary		Boundary		Classification		Saturated hydraulic					
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		Soil Reaction (pH)				
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 0.42	Max: 6.5 Min: 3.6				

			Soil Layer	Information			
Boundary				Classi	fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
2	7 inches	11 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 0.42	Max: 6.5 Min: 3.6
3	11 inches	50 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 0.42	Max: 6.5 Min: 3.6
4	50 inches	72 inches	gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 0.42	Max: 6.5 Min: 3.6

Soil Map ID: 4

Soil Component Name: Fluvaquents

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

Soil Layer Information									
	Воц	ındary		Classi	fication	Saturated hydraulic			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 141 Min: 1.4	Max: 6.5 Min: 3.6		
2	7 inches	40 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 141 Min: 1.4	Max: 6.5 Min: 3.6		
3	40 inches	50 inches	sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 141 Min: 1.4	Max: 6.5 Min: 3.6		

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

MAP ID WELL ID FROM TP

No Wells Found

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID WELL ID FROM TP

No PWS System Found

Note: PWS System location is not always the same as well location.

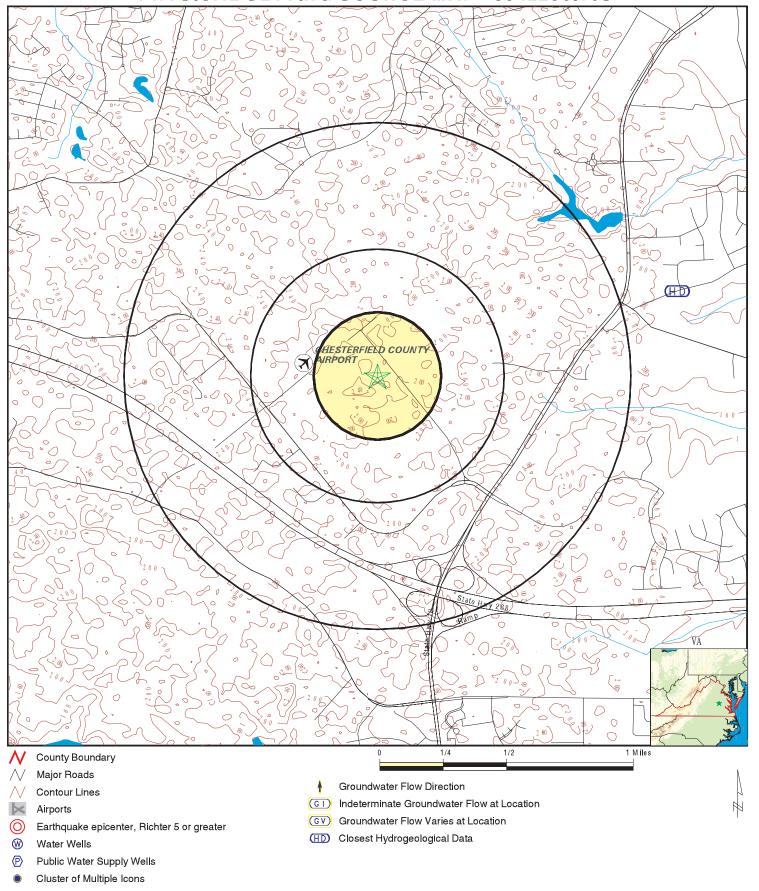
GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID WELL ID FROM TP

No Wells Found

PHYSICAL SETTING SOURCE MAP - 3542256.16s



Chesterfield Airport 7431 Airfield Drive CLIENT: CONTACT: SITE NAME: **EEE Consulting** ADDRESS: Jennifer Jones Richmond VA 23237 INQUIRY #: 3542256.16s LAT/LONG: 37.4058 / 77.5197

DATE: March 12, 2013 3:07 pm

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

EPA Region 3 Statistical Summary Readings for Zip Code: 23237

Number of sites tested: 37.

Maximum Radon Level: 4.5 pCi/L.

Minimum Radon Level: 0.0 pCi/L.

pCi/L pCi/L pCi/L pCi/L pCi/L pCi/L 4-10 10-20 20-50 50-100 >100 <4 36 (97.30%) 1 (2.70%) 0 (0.00%) 0 (0.00%) 0 (0.00%) 0 (0.00%)

Federal EPA Radon Zone for CHESTERFIELD County: 1

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map. USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Virginia Public Water Supplies

Source: Department of Health, Office of Water Programs

Telephone: 804-786-1756

OTHER STATE DATABASE INFORMATION

Virginia Oil and Gas Wells

Source: Department of Mines, Minerals and Energy

Telephone: 804-692-3200

A listing of oil and gas well locations

RADON

Area Radon Information Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at

private sources such as universities and research institutions.

EPA Radon Zones Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

EPA Region 3 Statistical Summary Readings

Source: Region 3 EPA Telephone: 215-814-2082

Radon readings for Delaware, D.C., Maryland, Pennsylvania, Virginia and West Virginia.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX D

Title Information

#10 1004-MSE '312

THIS DEED, made this 13th day of January, 1971, by and between CHARLOTTE O. WINGFIELD (also known as C. O. Wingfield) and WILLIAM L. WINGFIELD, her husband, and ELIZABETH E. WINGFIELD (also known as E. E. Wingfield), unmarried, parties of the first part, and COUNTY OF CHESTERFIELD, VIRGINIA, party of the second part;

WITNESSETH: That for and in consideration of the sum of TEN DOLLARS (\$10.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the said parties of the first part do hereby grant and convey with General Warranty of Title unto the said party of the second part, a one-half undivided to test in and to the one-half undivided interest in the following described real estate, owned by the parties of the first part, as of March 10, 1970, to-wit:

All that certain tract or parcel of land, lying and being in Dale Magisterial District, Chester-field County, Virginia, containing 211.10 acres, all as shown on plat made by W. W. LaPrade & Bros., dated December 22, 1943, entitled "Map of 211.10 acres of land, situated in Dale District, Chesterfield Co., Va., and known as the Fuqua Tract. Burveyed for Earle Spencer," a copy of which is attached to and made a part of a certain deed from the parties of the first part hereia to the County of Chesterfield, Virginia, dated March 11, 1970, and recorded March 20, 1970, in the Clerk's Office of the Circuit Court of Chesterfield County, Virginia, in Deed Book 983, page 437, to which plat reference is hereby made for a more particular description.

Together with a strip of land 15 feet in width conveyed to EarleSpencer and Christopher C. Phillips by Charles Smerda and wife by deed dated November 16, 1943, in Deed Book 280, page 300, and shown on plat attached thereto, to which plat reference is made for a more particular description and which strip of land was subsequently acquired by Charlotte O. Wingfield and Elizabeth E. Wingfield.

BEING the same property conveyed to C. N. Valentine by field from Earle Spencer and Mildred P. Spencer, his wife; and Christopher C. Phillips and Annie A. Phillips, his wife, dated February 25, 1944, and recorded March 14, 1944, in Deed Book 281, page 561 in the Clerk's Office of the Circuit Court of Chesterfield County, Virginia. The said C. N. Valentine and Sibil Valentine, his wife, by deed dated June 10, 1959, and recorded June 11, 1959, in Deed Book 388, page 396 of the aforesaid Clerk's Office, conveyed an undivided one-half interest in the above described property to C. O. Wingfield. The said C. O. Wingfield and William L. Wingfield, her husband, by deed dated June 10, 1959, and recorded April 9, 1969, in the aforesaid Clerk's

Office in Doed Book 952, page 200, conveyed a one half interest in their one-half interest to E. E. Wingfield.

This conveyance is made subject, however, to the restrictions, conditions, casements and covenants of record, if any, to the extent that same may lawfully affect the above described real estate.

Subject to the foregoing, the said parties of the first part covenant that they have the right to convey the said land to the party of the second part; that they have done no act to encumber the said land; that the said party of the second part shall have quiet possession of the said land, free from all encumbrances, and that the said parties of the first part will execute such further assurances of the said land as may be requisite.

This conveyance to the County of Chesterfield, Virginia, is made by the parties of the first part pursuant to Chapter 795 of the Acts of Assembly of 1968 and in compliance with Section 15.1-286 of the Code of Virginia (1950), as amended, and is approved by the Commonwellth's Attorney as to form, and accepted on behalf of the Board of Supervisors by resolution of the Board, duly adopted, as cortified by its Clerk, authorized to so act, as evidenced by their signatures to this deed.

WITNESS the following signatures and seals:

Charlotte O. Wingfield

Charlotte O. Wingfield

William L. Wingfield

Grankelt

Elizabeth E. Wingfield

(SBAL)

506-1004 (ACL 314:

STATE OF VIRGINIA

County of Manener . , to-with

I. Edith A. Licentair a Notary Public in and for the County and State aforesaid, do hereby certify that CHARLOTTE O. WINGFIELD and WILLIAM L. WINGFIELD, her hysband, whose names are signed to the foregoing writing bearing date on January 13, 1971, have each acknowledged the same before me in my jurisdiction aforesaid.

Given under my hand this to day of Ormany, 1971.

-My commission expires: (/35/2/

Colite Notary Public

STATE OF VIRGINIA

The of mount, to-wit:

and for the ____ and State aforesaid, do hereby certify that ELIZABETH E. WINGFIELD, whose name is signed to the foregoing writing bearing date on January 13, 1971, has acknowledged the same before me, in my jurisdiction aforesaid.

My commission expires: 5 v 5

Notary Public

Shesterfield County, Virginia, did on the 27 day of Jacoby, 1971, accept this conveyance by resolution duly adopted.

Executive Secretary

*. .

0

a 1004 at 315

VIRGINIA:

IN THE CIRCUIT COURT OF CHESTERFIELD COUNTY

IN RE: Purchase by the County of Chesterfield, Virginia, of a one-fourth undivided interest in a parcel of land in Dale District, Chesterfield County, Virginia, containing 211.26 acres, owned by Elizabeth E. Wingfield and Charlotte O. Wingfield, for use in connection with the proposed Chesterfield County Airport facility.

REPORT

TO THE HONORABLE JUDGES OF THE AFORESAID COURT:

Pursuant to the Order entered by this Court, I was directed to examine title to the one-fourth undivided interest in 211.26 acres, and a 15-foot strip of land, said interest owned by Elizabeth E. Wingfield and Charlotte O. Wingfield in Pale District, being more particularly described in the deed to which this report is annexed, and therefore I wish to report that I have examined the records in the Clerk's Office of the Circuit Court of this County and do report that title to the one-half undivided interest in this property is now vested in Elizabeth E. Wingfield and Charlotte O. Wingfield.

In my opinion, title to the one-fourth undivided interest in this property as free and clear of all valid objectims, except

- "L. Taxes for 1970 and subsequent years."
- Valentine, his wife, to Commonwealth Natural Gas Corp., dated July 5, 1956, and recorded July 26, 1956, in the aforesaid Clerk's Office in Deed Book 505, page 149.

I have examined the deed conveying this property to the County of Chesterfield, Virginia, embracing the land described therein and when the same has been recorded, the County of Chesterfield will acquire good title as to one-half of the one-half undivided interest of Elizabeth E. Wingfield and Charlotte. O. Wingfield, subject to the objections noted above.

and 1004 ME 316 Your title examiner wishes further to report that the County of Chesterfield has a valid contract to acquire the remainder of said undivided one-half interest on or before. January 30, 1971. with the certification of the Circuit Court of Chesterfield County, the 19.71, this Dued was presented and with the certification of the Circuit Court of Chesterfield County, the 19.71, this Dued was presented and with the certification of the Circuit Court of the Circuit Court of the Circuit Court of the Circuit Court of the Circuit Court of the Circuit Court of the Circuit Court of the Circuit Court of Chesterfield County, the 19.71, this Dued was presented and with the certification of the Circuit Court of Chesterfield County, the 19.71, this Dued was presented and with the certification of the Circuit Court of Chesterfield County, the 19.71, this Dued was presented and with the certification of the Circuit Court of Chesterfield County, the 19.71, this Dued was presented and with the certification of the Circuit Court of Chesterfield County, the 19.71, this Dued was presented and with the certification of the Circuit Court of the Circuit The tax Impeged by Soundings-54.1 in the amount of 5.3.

, has been paid.

APPENDIX E

User Questionnaire

User Provided Information

In order to qualify for one of the *Landowner Liability Protections identified in the Phase I ESA Standard 1527-05*, the *user* must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete for the Phase I ESA.

Please fill out the questionnaire below and attach any pertinent information.

YES	NO	QUESTION	IF "YES" PLEASE DESCRIBE
		Are you aware of any environmental cleanup liens against the property that are recognized under law (federal, state, and/or local)?	
		Are you aware of any activity or use limitations that are in place at the site and/or have been recorded in a registry under law?	
		As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties and its respective use?	
		Does the proposed purchase price paid for the property reasonably reflect the fair market value? If you conclude that there is a difference, have you considered the reason for the lower purchase including possible contamination?	
		Do you know the past uses of the property?	
		Do you know of specific chemicals that are currently or once were present on the property?	
		Do you know of any spills or other chemical releases that have been taken place at the property?	
		Do you know of any environmental cleanups that have taken place at the property?	
		As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination on the property?	

YES	NO	QUESTION	IF "YES" PLEASE DESCRIBE
	\boxtimes	Are there helpful documents available that could inform us	
	· ·	about past and current uses on the property? (Such information	
		could be MSDS, environmental permits and reports, tank	
		registrations, safety plans, etc.) If "yes" is there the possibility	
		of obtaining a copy?	
		Is there a legal description and recorded plat available? If "yes"	
	<u> </u>	please provide Deed Book/Plat Book and Page Number if	
		possible.	
\boxtimes		Do you have the current property owner's contact information?	Thomas Trudeau, Airport Manager,
	· ——	If "yes" please provide.	
\boxtimes		How is the property currently zoned? Commercial, residential,	
-	· ———	industrial, mixed use? Are there any zoning restrictions the	
		limit the activity use of the property? (i.e. Chesapeake Bay	
		Preservation Area, Groundwater Protection Area, 50 or 100	
		year Flood zone).	
	Pamela Col	eman Env Com	oliance Mgr
Name: _		Title/Position:	
	Depa	rtment of Military Affairs 4/10/1	3
Organiza	tion:	Date:	

ENVIRONMENTAL CONDITION OF PROPERTY REPORT

Phase I Environmental Site Assessment

for the

Lease Renewal of the VAARNG Aviation Detachment Office/Hangar Space Chesterfield County Airport

Prepared for: Department of Military Affairs NGVA-FMO-ENV Blackstone, VA 23824

Prepared By: EEE Consulting, Inc. 8525 Bell Creek Road Mechanicsville, VA 23116 804-442-3330

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1.0 EXECUTIVE SUMMARY

This report presents the process and findings of a Phase I Environmental Site Assessment (ESA) for portions of three buildings and two aircraft parking areas (herein referred to as "the Site") located at the Chesterfield County Airport in Chesterfield, Virginia. The Virginia Army National Guard (VAARNG) is renewing the lease to the Site which serves as the location for aviation detachment (2nd Battalion, 135th Aviation Battalion). In response to the lease renewal, EEE Consulting, Inc. (3e) was contracted by the Virginia Department of Military Affairs (VDMA) to conduct a review of the Site and prepare an Environmental Condition of Property (ECOP) Report.

The objective of the Phase I ESA is to conduct all appropriate inquiries (AAI) into the previous ownership and uses of the property consistent with good commercial or customary practice as defined in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 USC Section 9601(35)(B), and as identified in ASTM E1527-13. The Phase I ESA is intended to permit the user to satisfy the requirements to qualify for one of the landowner liability protections (LLPs). The ESA was performed to collect reliable information regarding the environmental condition of the Site to determine its suitability for transfer and to meet US Army Regulation (AR) 200-1, Environmental Protection and Enhancement.

Available public information including historical topographic maps and aerial photographs, deed records, and documents on file with federal, state, and local regulatory agencies was compiled and reviewed to meet the project objective. **3e** personnel also conducted interviews with persons familiar with the site.

The Site is located within the Chesterfield County Airport (designated by the Federal Aviation Administration as FCI), near the interchange of Route 10 and Route 288 (**Figures 1 and 2**) and consists of Buildings 7501, 7431 and 7417 and two aircraft parking areas. Prior to development in the early 1970's, the Site was undeveloped. Current land use for adjacent properties includes light industrial to the west, Route 10 to the south, undeveloped forest land to the east, and residential areas to the north. **Figures 1 through 4** depict the location of the Site, the approximate property boundary, and surrounding topographic features.

Based on the information reviewed for the Site, no *Recognized Environmental Conditions* (*RECs*) as defined in ASTM E1527-13 were identified for the project area. Based on the available site information for the subject Site and adjacent properties, and in accordance with DoD specifications, the site is considered to have LOW potential risk for environmental concerns.

The Army National Guard ECOP Handbook Phase I ESA specifications require that an ESA also include information regarding asbestos containing materials (ACM), lead-based paint (LBP), and radon. Buildings 7501 and 7431 were constructed in the 1970s and may contain ACM or LBP. A previous survey indicated asbestos floor tile is present in Building 7501. Building 7417 was constructed in 2005 and therefore is less likely to contain ACM or LBP. Any renovations to the Site will be managed by the County.

The U.S. Environmental Protection Agency (USEPA) Map of Radon Zones for Chesterfield County, Virginia indicates the county lies within the high priority zone, Zone 1, which has a predicted average indoor radon screening level greater than the USEPA's recommended maximum allowable exposure level of 4.0 Picocuries Per Liter (pCi/L).

As part of the Phase I ESA, **3e** reviewed public records from the Chesterfield County Circuit Court Clerk's office to determine if there were any institutional controls, activity use limitations, or environmental liens imposed on the Site. No restrictions were noted in the documents reviewed. Records were also reviewed to determine past uses of the property that would suggest potential petroleum releases at the Site. The records did not indicate any historical petroleum releases associated with the Site.

According to the zoning map provided by the Planning and Geographical Information Systems (GIS) Department of Chesterfield County, the entire airport property, including the Site and properties to the west, are zoned light industrial (I-1). Adjacent properties to the north and east are zoned agriculture (A), and residential areas (R-15 and R-7) are located further north and east (**Figure 7**).

3e reviewed a database records search report generated by Environmental Database Research (EDR) (**Appendix C**). The EDR report, dated June 21, 2018, indicated two (2) Virginia Department of Environmental Quality (VDEQ) Leaking Underground Storage Tank (LUST/LTANKS) sites located within ½ mile of the Site. **3e** personnel reviewed file data for the VDEQ LUST Pollution Complaints (PCs) to determine if the contaminants pose a significant risk to impact the Site.

A LUST/LTANKS site was identified at the FCI property located at 7511 Airfield Drive. According to the EDR Report, a release was reported to the VDEQ on September 28, 2017, and assigned PC #201884099. The case was closed by the VDEQ on October 10, 2017. **3e** obtained files for the on-site LUST/LTANKS case for review. According to the October 10, 2017 VDEQ Closure Letter prepared by Robyne Bridgman, Regional Remediation Manager, contamination levels did not warrant further remediation or corrective action and the case was closed. Therefore, **3e** does not suspect the previous release to be an environmental concern to the Site. A copy of the File Review documents is included in **Appendix C**.

The second LUST/LTANKS site (PC #07-4610), was identified as Frito Lay Sales Distribution and is located at 8010 Whitebark Terrace. Based on topography, it is likely that groundwater from the Frito Lay property is flowing in the general direction of the Site; however, the UST has been removed from the ground and the VDEQ closed the PC file. Remaining contamination from this release is not expected to impact the Site.

3e has performed this Phase I ESA of the subject property, in conformance with the scope and limitations of American Society for Testing and Materials (ASTM) Standard E-1527-13 and the USEPA All Appropriate Inquiries (AAI) Rule. This Phase I ESA was also performed in conformance with specifications set forth by the Department of Defense and the VAARNG.

2.0 INTRODUCTION

This report presents the results and findings of a Phase I Environmental Site Assessment (ESA) for lease renewal space within the Chesterfield County Airport (FCI) in Chesterfield County, Virginia (**Figure 1**). The subject property is referred as "the Site" for the purposes of this report. The Site consists of portions of three buildings and two aircraft parking areas owned by Chesterfield County.

2.1 Purpose

The objective of this Phase I ESA is to conduct AAI into the previous ownership and uses of the Site consistent with good commercial or customary practice and ASTM Standard E1527-13. The Phase I ESA is intended to permit the user to satisfy the requirements to qualify for the landowner liability protections (LLPs) under CERCLA 42 U.S.C. Section 9601.

As part of the AAI, one of the objectives of this evaluation was to determine recognized environmental conditions (RECs) at the site and surrounding properties regarding potential impacts to human health and the environment. According to the ASTM Standard E1527-13, a REC is defined as:

Recognized Environmental Conditions (REC) means the presence or likely presence of any hazardous substance or petroleum products on the property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under condition in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a threat to human health or the environment.

Specific objectives of this evaluation include the following:

- 1. Identification and documentation of past and present Site activities that may have resulted in potential impacts to the environment.
- 2. Identification and documentation of past and present activities at adjacent properties that may pose an environmental risk to the Site.

2.2 Detailed Scope-of-Services

The following general work tasks were performed to meet the project objectives:

- 1. Compilation and review of public information on the history of the Site and nearby properties.
- 2. Compilation and review of information on file with appropriate federal, state, and local environmental regulatory agencies.
- 3. Field survey of the Site and surrounding areas.
- 4. Interviews with owners and people familiar with the Site.

2.3 Significant Assumptions

It is assumed that the information provided to **3e** by the current owner, Chesterfield County, Virginia Department of Environmental Quality (VDEQ), and Virginia Department of Military Affairs (VDMA) is accurate and up-to-date.

2.4 Limitations and Exceptions

In addition to the limitations set forth in ASTM E1527-13, the accuracy completeness of this report is necessarily limited by the following:

Limitations and Exceptions	Yes	No
Access Limitations		X
Physical Limitation to observations (i.e. snow, rain, asphalt, buildings, etc.)		X
Information requested but not available at time of report preparation.		X
Unique limitation not specified in ASTM Standard.		X

2.5 Special Terms and Conditions

This Phase I ESA was performed in accordance with the American Society for Testing and Materials (ASTM) E 1527-13 Standard Practice for Environmental Site Assessments. **3e** also included information on Asbestos Containing Material (ACM), Lead-Based Paint (LBP) and Radon per Army National Guard specifications.

2.6 User Reliance

This ESA was performed by **3e** for the VDMA. This report is provided for the sole use of the VDMA and their designated representatives. Use of this report by another party is not authorized and will be at such party's own risk. **3e** disclaims liability for use or reliance on this report by other parties.

3.0 SITE DESCRIPTION

3.1 Location and Legal Description

The FCI is located at 7511 Airfield Drive, near the interchange of Route 10 (Ironbridge Road) and Route 288 (**Figures 1 and 2**). The Virginia Army National Guard is seeking to lease 19,500 square feet of hangar space (Buildings 7431 and 7417), 2,218 square feet of office space (Building 7501), and two aircraft parking areas at the FCI (**Figure 4**). Airfield Drive provides accessibility to the Site.

The FCI is designated by the Federal Aviation Administration (FAA) as an official general aviation reliever airport for Richmond International Airport (RIC). The FCI is owned and operated by the County of Chesterfield, Virginia.

3.2 Site and Vicinity Geological Characteristics

A United States Geological Society (USGS) topographic map (**Figure 3**) of the FCI, indicates surface elevation at the site is approximately 210 feet above mean sea level (AMSL). Based on the topographic map, the Site slopes to the southeast. Surface water from the Site flows to Reedy Creek. Reedy Creek is located on the southeastern portion of the airport property. Properties adjacent to the airport include an industrial park to the west, VA 10 to the south, undeveloped woodland to the east, and a residential area to the north.

The Site is located in the eastern Piedmont Physiographic Province of Virginia. According to Mixon and others (1989 USGS), the uppermost geologic unit at the site is Tertiary-age Miocene sand and gravel. This geologic unit constitutes thin Coastal Plain outliers in the easternmost Piedmont where deposits directly overlie weathered crystalline rock. In part, these deposits may represent a fluvial to marginal-marine facies of the Choptank Formation. This geologic unit consists of fine to coarse sand,

sandy gravel, silt, and clay. Pebbles and cobbles are deeply etched. Deposits are commonly oxidized to yellow-orange and yellow-brown.

According to the Environmental Data Resources (EDR) Report and the Natural Resources Conservation Service (NRCS) Soils Map, the following soil types are present within the FCI boundary (**Figure 6**):

Table 1. Soil Types within Chesterfield County Airport Boundary

Soil Component Name	Soil Surface Texture	Hydrologic Group	Soil Drainage Class	Hydric Status	Corrosion Potential
Coalfax variant	Fine sandy loam	Class C	Somewhat poorly drained	Partially hydric	High
Bourne	Fine sandy loam	Class C	Moderately well drained	Not hydric	High
Aquults	Fine sandy loam	Class D	Poorly drained	All hydric	High
Fluvaquents	Silt loam	Class D	Poorly drained	All hydric	High

The FCI lies within the James River Basin. A review of the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) map for the area surrounding Chesterfield County indicated numerous areas of freshwater emergent and forested wetlands (**Figure 5**). FCI contracted Mill Creek Environmental Consultants, Ltd. to conduct a wetland survey and delineation for the existing airport property. The survey produced approximately 65 acres of wetlands and noted 6,241 linear feet of stream channels, the majority of which are manmade and serve as the stormwater management system of the airport. No wetlands are located in the immediate vicinity of the three buildings the Virginia Army National Guard (VAARNG) is proposing for lease renewal.

In accordance with DCR and USEPA policies, FCI has developed a Stormwater Pollution Prevention Plan (SWPPP) dated March 31, 2009. Stormwater runoff from FCI is conveyed to well-defined natural and manmade drainage features. Natural drainages carry mostly intermittent or wet weather flows while the bulk of stormwater management structures are hardened with bedrock, rip rap and/or cobblestones. With the exception of the developed portion of the airport and clear zones, the watersheds at the facility exist in mixed hardwood and pine forests. Surface runoff from FCI generally flows southeast towards Reedy Creek.

3.3 Current Use of the Site

The current location of the FCI was determined through a site selection study completed in 1969, and construction began in 1972 after completion of an Environmental Impact Assessment Report. The original construction project included the acquisition of 556 acres of land. The airport was officially dedicated in October 1973. Since original construction, a number of additional projects have been completed, including runway extensions and the construction of new hangar facilities, a terminal building, and a parking area. An aerial photograph of the airport facility and surrounding properties is provided in **Figure 2**. The Site is currently occupied.

3.4 Description of Site Improvements

Buildings 7431 and 7417 are currently used as aircraft hangar facilities and Building 7501 is an office/administration building that was previously occupied by A.T. Massey Corporation. Currently, office spaces in Buildings 7431 and 7501 are occupied. The Site also includes two asphalt-paved aircraft parking areas located to the northwest and southwest of Buildings 7501 and 7431, respectively (**Figure 4**). No improvements were observed on the parking areas during the site reconnaissance.

VAARNG has no plans for improvements to the Site according to the Real Estate Action Plan (REAP) submitted by VAARNG. FCI completed interior renovations at Building 7431 in 2010 and has plans to renovate Building 7501 in the near future. No earth moving activities are planned.

3.5 Current Uses of Adjoining Properties

The Site located within the FCI. Properties adjacent to the FCI include an industrial park to the west, VA 10 to the south, undeveloped woodland to the east, and a residential area to the north.

A fuel farm is located approximately 600 feet southeast of Building 7417 (Hangar). The facility was constructed in the early 1970s and was upgraded in the 1990s to meet EPA standards. Three underground storage tanks (USTs) and one aboveground storage tank (AST) are located at the airport fuel farm, including two 12,000-gallon Jet A fuel USTs, one 12,000-gallon Avgas UST and one 500-gallon gasoline AST. The airport owns and maintains the fuel farm and aircraft fuel is dispensed via three fuel trucks owned or leased by the Fixed Base Operator (FBO). The FCI records indicate the fuel farm is in compliance with USEPA and VDEQ regulations. The airport also has two emergency generators which have belly tanks for diesel fuel storage, one 250-gallon and one 50-gallon. No evidence of petroleum releases from the tanks was observed during the June 25, 2018 site inspection.

No environmental impacts were observed on the Site or the adjacent properties during the Site reconnaissance conducted on June 25, 2018.

4.0 USER PROVIDED INFORMATION

4.1 Title Records

The User provided an aerial photograph for the Site including the locations of lease renewal spaces. A legal description of the Site was not provided. Historical deed records obtained from the Chesterfield County Circuit Court were reviewed by **3e** personnel. Prior to development, the airport property was undeveloped land, owned by private owners (**Appendix D**).

4.2 Environmental Liens/Activity and Use Limitations

According to the information reviewed, no environmental liens occur on the subject Site. No activity or use limitations were recorded in the deed.

4.3 Specialized Knowledge

3e contacted Mrs. Pam Coleman of VDMA (the User) and Mr. Jeremy Wilkinson, Facilities Maintenance Supervisor at the FCI, regarding any specialized knowledge or experience that would suggest any RECs in connection with the property. They were not aware of any RECs associated with the Site. Mrs. Coleman completed a User Questionnaire in June 2018, which is included in **Appendix E**.

4.4 Commonly Known or Reasonably Ascertainable Information

3e reviewed deeds and zoning information for the Site. Any other environmental liens or activity and use limitations recorded or filed any place other than recorded land title records or available from local planning departments were not considered to be reasonably ascertainable information.

4.5 Valuation Reduction for Environmental Issues

According to the owner/operator, there is no value reduction for the Site due to recognized environmental concerns. The property is being leased to the VAARNG. No purchase of the property by VAARNG is planned.

4.6 Owner, Property Manager & Occupant Information

Chesterfield County provided an Airport Master Plan which included site maps and detailed descriptions of planned improvements to the airport. Chesterfield County Planning and GIS Department provided GIS maps that identify easements and zoning information (**Figure 7**). Public water and wastewater services are provided to airport facilities by Chesterfield County. Dominion Virginia Power provides electrical power and Verizon provides telecommunications services to the airport.

4.7 Reason for Performing Phase I

This Phase I ESA was performed for VDMA to investigate previous owners and uses of the Site. The Phase I was also conducted to determine and locate any potential RECs located on or within close proximity to the Site.

5.0 RECORDS REVIEW

5.1 Standard Environmental Record Sources

The current and past regulatory status of the subject parcel and nearby properties was determined by a review of information on file with the USEPA, Chesterfield County, and the VDEQ.

5.2 Additional Environmental Record Sources

A records search performed by EDR of Southport, Connecticut was reviewed. The search distance satisfies the "approximate minimum search distance" requirement of the ASTM standard. A copy of the complete EDR report is included in **Appendix C**

. The following is a summary of the information gathered during the records search:

There were no sites identified by the EDR report within the ASTM search radius for the following databases:

- Federal NPL (Superfund)
- Federal Delisted NPL
- CERCLIS
- CERCLIS NFRAP
- CORRACTS
- RCRA-TSDF
- RCRA-LQG
- RCRA-SQG
- RCRA-CESOG
- ENG CONTROLS
- INST CONTROLS
- ERNS
- SWF/LF
- VCP

- BROWNFIELDS
- DOD
- FUDS
- CONSENT
- ROD
- UMTRA
- US MINES
- HMIRS
- SPILLS
- DRYCLEANERS
- COAL ASH
- EDR MGP
- EDR US Historical Auto Station
- EDR US Historical Dry Cleaners

The EDR report identified the FCI on the following databases: LUST/LTANKS, UST, AST, RCRA Small Quantity Generator (SQG) of hazardous waste, FINDS, ECHO, and ERNS.

The LUST/LTANKS was associated with a release of jet fuel A in September 2017. The VDEQ assigned Pollution Complaint (PC) #201884099 to the release. **3e** obtained files for the LUST/LTANKS case for review. According to the Findings and Limited Soil Sampling Report for the Chesterfield Airport Fuel Farm, prepared by Commonwealth Environmental Associates, Inc. (CEA), dated June 23, 2017, a release of Aviation Jet Fuel A was reported on February 1, 2017 at the Chesterfield Airport Fuel Farm due to a UST vent pipe. Dominion Aviation addressed the fuel located on the concrete pad above the UST. Released fuel impacted areas located on the northeast, southeast, and southwest side of the concrete pad. Absorbents were utilized to collect the released fuel and limited impacted surface grass and soil were removed to depths up to 3 inches for disposal. Dominion Aviation disposed of thirty drums of soil and three drums of absorbents with Atlantic Industrial Services, Inc. CEA recommended that limited actions be undertaken to address the free product observed and that the trench lines be backfilled and graded to prevent storm water accumulation. While the estimated loss of fuel was below the VDEQ reporting volume, based on the viewed presence of free product during the limited investigation, CEA recommended that a release report be forwarded to the VDEQ for their review and comment.

According to an October 10, 2017 VDEQ Closure Letter prepared by Robyne Bridgman, Regional Remediation Manager, contamination levels did not warrant further remediation or corrective action and the case was closed. Therefore, **3e** does not suspect the previous release to be an environmental concern to the Site. A copy of the File Review document is included in **Appendix C**.

The airport is listed as a SQG of hazardous waste. SQG's generate more than 100 and less than 1,000 kg of hazardous waste during any calendar month and accumulates less than 6,000kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month and

accumulates more than 2,000 kg of hazardous waste at any time. There were no reported violations associated with this site.

The Airport Pump Station was identified as a UST location. The airport pump station has three 1,200-gallon jet fuel USTs currently in use.

The airport is also identified as an AST location. There is a 5,000-gallon gasoline AST, two diesel fuel emergency generator belly tanks, and a used oil AST currently in use on the airport property.

FINDS, ECHO, and ERNS are databases that list LUST/LTANKS and hazardous waste generator facilities.

The EDR report identified one additional site, Frito Lay Sales Distribution, located at 8010 Whitebark Terrace, approximately 0.46 mile southwest of the Site, on the following databases: LUST/TANKS and UST.

The LUST/LTANKS was associated with the removal of a 10,000-gallon diesel fuel UST. The VDEQ assigned PC numbers 19939404 and 19900100 to the release. The PC numbers have been closed by the VDEQ. Upon review of the topography adjacent to the Frito Lay site, any remaining subsurface contamination is not expected to migrate toward the Site. Thus, the Frito Lay site impacts are not considered likely to impact the subject Site.

Frito Lay Sales Distribution was also identified as a UST site on the EDR report. This refers to the 10,000-gallon UST discussed above.

Orphan sites are sites with insufficient address information such that they can only be identified as being within the zip code of the target property. No orphan sites were identified on the EDR report.

There were no state registered landfills located within 0.50 mile of the property. No public water supply systems were identified within one mile of the site. No tribal land or burial grounds were identified within the search radius.

5.3 Physical Setting Sources

The following sources were used to characterize the physical setting of the site:

- Airport Layout Master Plan Update, Chesterfield County Airport, March 2012: Delta Airport Consultants, Inc.
- GIS Data developed by Chesterfield County.
- Topographic Maps and Aerial Photographs provided by EDR, Inc.

5.4 Historical Use Information on the Property

A limited history of the Site ownership and usage of the Site and surrounding properties was developed through information provided by the user, the owner, and people familiar with the site, as well as historical topographic maps and aerial photographs and deed records. There are no Historical Sanborn

Maps recorded for the area. Selected historical topographic maps and aerial photographs are included in **Appendix B**.

The FCI has been under the ownership of Chesterfield County since 1971. Prior to development as an airport facility, the property was undeveloped and owned by private landowners. Historical topographic maps were reviewed from 1943 to 1994. A review of the 1943 through 1968 maps show the area was undeveloped during this time period. The 1974 topographic map is the first map to show the construction of the airport. The 1994 topographic map shows increased development at the airport property.

Historical aerial photographs were reviewed from 1959 through 2017. The 1959 and 1968 photographs show the property as undeveloped. The 1972 photograph shows the airport during construction, and the 1980 photograph shows the airport with a runway and buildings. Increased development of the airport and surrounding areas is evident from 1994 to 2017.

5.5 Historical Use Information on Adjoining Properties

The 1980 aerial photograph shows the first significant development west of the airport and the 1974 topographic map shows increased development west of the airport at the industrial park. The 1994 topographic map shows increased residential development north and northeast of the airport. The land east of the airport remains undeveloped.

6.0 SITE RECONNAISSANCE

6.1 Methodology and Limiting Conditions

3e personnel completed a site reconnaissance on June 25, 2018. Selected photographs taken during the site reconnaissance are presented in **Appendix A**.

3e made a visual inspection of the project area. **3e** personnel also conducted a limited reconnaissance of the immediate area surrounding the Site and adjoining properties along the public roads.

6.2 General Site Setting

The Site is situated within the FCI property and includes office and hangar space in Buildings 7501, 7431 and 7417, and two aircraft parking areas to the northwest and southwest. Airport operations surround the Site.

6.3 Exterior Observations

The following exterior observations were noted at the subject properties during the site reconnaissance:

- Building 7501 Metal siding, building in good condition
- Building 7431 Metal frame building in excellent condition
- Building 7417 Metal frame building in excellent condition
- Aircraft parking areas Asphalt, no equipment or vehicles onsite, excellent condition

No USTs/ASTs, hazardous material, or waste storage was observed on the exterior of the buildings.

The following exterior observations were made on the adjoining FCI property during the site reconnaissance:

- Several electrical transformers located throughout the airport property. All transformers are owned and operated by Dominion Virginia Power. No other possible sources of polychlorinated biphenyls (PCBs) were found during the review of past land use activities at the Site.
- Hazardous materials stored onsite, including aircraft deicing fluid, aircraft and ground equipment fuel and general maintenance and cleaning supplies.
- A fuel farm with USTs and 55-gallon drums containing a water/fuel mix.

FCI personnel indicated the drums at the fuel farm contain water that is periodically pumped from the UST sumps. The drums are in good condition, labeled "Hazardous Waste" and stored under shelter. No other hazardous materials or wastes were observed during the June 25, 2018 site inspection. No spills or releases, or other adverse environmental conditions were observed associated with any of the above areas.

6.4 Interior Observations

Building 7501 is a two-story building that was constructed in 1974. The VAARNG is proposing to renew the lease of the second floor office which is approximately 100' x 30' with windows facing the airport runway. The office space has been renovated and appeared to be in good condition. In December 2010, floor tile and mastic in the second floor office hallway of Building 7501 were determined to be ACM. All ACM has been managed according to the Asbestos Management Plan for County Operations. A hangar is also located at Building 7501. The hangar houses airplanes, helicopters, typical maintenance chemicals, flammable materials closets, oxygen tanks, oily waste containers, drums of used oil, petroleum distillate, AccuChem, and a used oil AST.

Building 7431 is a one-story building with a hangar that was constructed in 1979 and was previously occupied by A.T. Massey Corporation. The VAARNG is proposing to renew the lease of the first floor office space and the hangar. According to FCI personnel, interior renovations to Building 7431 office space were completed in 2010. The office space consists of typical work cubicles and a small kitchen. The interior of the hangar is a clear-span frame with a concrete slab floor. This hangar houses helicopters, typical maintenance chemicals, flammable materials closets, oxygen tanks, and oily waste containers. Minor historical petroleum staining was observed on the concrete floor. Overall, the building was observed to be in excellent condition.

Building 7417 (Hangar) was constructed in 2005. The interior is a clear-span frame with a concrete slab floor. Several aircraft were being stored during the site reconnaissance. **3e** also observed typical maintenance chemicals, flammable materials closets, oxygen tanks, a portable emergency generator, and oily waste containers in this hangar. Minor historical petroleum stains were observed on the concrete floor. The building is in excellent condition.

The VAARNG does not have plans for improvement at the Site. No hazardous material or petroleum storage was observed at the Site. Interior photos are attached in **Appendix A**.

7.0 INTERVIEWS

Information used and provided in this report was acquired from interviews with several different groups.

7.1 Interview with Owner

Mr. Jeremy Wilkinson, Facilities Maintenance Supervisor with the FCI for Chesterfield County, was interviewed on June 25, 2018. Mr. Wilkinson had no knowledge of the presence of any RECs, environmental liens, or activity and use limitations on the subject Site. Mr. Wilkinson was aware of a failed valve associated with the 12,000-gallon Jet fuel UST and provided site plans depicting the tank components and proposed repair. Mr. Wilkinson also indicated the repairs were made and a final tank test was completed on December 11, 2017.

7.2 Interview with Site Manager

The Site is currently managed by Chesterfield County. Mr. Chris Verlander, Airport Operations Personnel with the FCI accompanied **3e** personnel during the site reconnaissance. He had no knowledge of the presence of any RECs, environmental liens, or activity and use limitations on the subject Site.

7.3 Interview with Occupants

The VAARNG occupies the Site; however, interviews with the occupants could not be conducted due to the availability of personnel. **3e** contacted Mr. John Calley, Safety Officer with the VAARNG, the provided contact, via phone (804-236-7367). No response has been received to date.

7.4 Interviews with Local Government Officials

No other local government officials were interviewed.

7.5 Interviews with Others

No other individuals were interviewed.

8.0 FINDINGS

- No current or historical RECs were identified for the subject Site.
- No activity or use limitations were identified for the subject Site.

9.0 OPINIONS

3e has no recommendations at this time.

10.0 CONCLUSIONS

3e performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-13 and in conformance with Department of Defense (DoD) specifications. Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report. The assessment has revealed no potential *RECs* in connection with the Site, and there are no recommendations prior to acquisition of the Site.

11.0 DEVIATIONS

Below is a list of the data gaps or deviations from the Phase I ESA standard:

- Past property owners were not interviewed.
- Current occupants were not interviewed.

12.0 ADDITIONAL SERVICES

3e included information on ACM, LBP and Radon in accordance with DoD and Army National Guard specifications.

Buildings 7501 and 7431 were constructed in the 1970s and may contain ACM. Building 7417 was built in 2005 and is therefore less likely to contain ACM. Chesterfield County completed an Asbestos and Lead-Based Paint Survey for the airport facility. In December 2010, the floor tile and mastic in the second floor office hallway of Building 7501 were determined to be ACM. FCI personnel indicated that renovations in Building 7431 were completed in 2010. All ACM is being managed according to the Asbestos Management Plan for County Operations.

A comprehensive LBP survey of the entire airport facility has not been completed; however, the fuel farm area was sampled for LBP in December 2010 and results indicated that LBP was not present. Building 7431 was renovated in 2010; therefore the presence of LBP is not likely. Chesterfield county personnel indicated that LBP will be sampled and managed as necessary prior to any future renovations at the Site.

The EPA Map of Radon Zones for Chesterfield County, Virginia indicates that the county lies within the high priority zone, Zone 1, which has a predicted average indoor radon screening level greater than the EPA's recommended maximum allowable exposure level of 4.0 pCi/L. A previous EDR report also listed radon levels in Chesterfield County as Zone 1. The database summary included averages for 37 test sites in the County. According to the testing data, approximately 3% of the test sites exhibited radon concentrations that were in excess of 4.0 pCi/L.

13.0 REFERENCES

The following is a list of references used for the Phase I ESA:

- The EDR Radius Map Report, June 21, 2018: Environmental Data Resources, Inc.
- Geological Map and Generalized Cross Sections of the Coastal Plain and Adjacent Parts of the Piedmont, Virginia, Mixon et al, 1989

- ASTM E1527-13, Environmental Site Assessments: Phase I Site Assessment Process.
- The Army National Guard Environmental Condition of Property Handbook, 1 June 2011: Army National Guard.
- Airport Layout Master Plan Update, Chesterfield County Airport, March 2012: Delta Airport Consultants, Inc.
- Final Asbestos and Lead Inspection Reports for Chesterfield County Airport, Air Traffic Control Building/Fuel Tank Dispenser Station, January 4, 2011: EEE Consulting, Inc.
- Real Estate Action Plan, VAARNG

14.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief we meet the definition of environmental professional as defined in 40 CFR 312.10 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject Site.

We have developed and performed the AAI's in conformance with the standards and practices set forth in 40 CFR 312.

Jennifer L. Jones Associate, Project Manager Carroll H. Ellis, III Environmental Scientist

Course Ella III

15.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

The following individuals from EEE Consulting, Inc. were involved in the preparation of this Phase I ESA:

Carroll H. Ellis, III

M.Envs., 2009, Environmental Studies, Virginia Commonwealth University B.S., 2008, Environmental Studies, Virginia Commonwealth University Licensed Asbestos Inspector, Virginia, 3303 003793 Licensed Lead Inspector, Virginia, 3355 000748

Mr. Ellis has 8 years of experience as an environmental scientist with environmental consulting companies. Mr. Ellis has substantial experience with environmental assessments, compliance, and implementing solutions to meet environmental regulations.

Areas of Expertise

- Phase I and II Environmental Site Assessments
- Asbestos Inspections
- Lead-Based Paint Inspections
- Air Monitoring
- NEPA documents
- Environmental Compliance
- Storm Water, Soil, and Groundwater Monitoring
- HUD Environmental Review

Jennifer L. Jones

M.I.S., 2002, Environmental Studies, Virginia Commonwealth University B.S., 1999, Biology and Environmental Science, The College of William and Mary

Ms. Jones has 15 years of experience in regulatory compliance and environmental consulting. She was a former Environmental Compliance Manager for VA Department of Military Affairs and a VDEQ Risk Assessor. Ms. Jones has substantial experience with hazardous waste, SPCC compliance and human health and ecological risk assessments.

Areas of Expertise

- Risk Assessments
- Environmental Compliance Assessments
- Hazardous Waste Compliance
- SPCC Compliance

16.0 LIST OF ACRONYMS

3e EEE Consulting, Incorporated

AAI All Appropriate Inquiry

ACM Asbestos Containing Material

AMSL Above Mean Sea Level AR US Army Regulation

AST Aboveground Storage Tank

ASTM American Society for Testing and Materials
CEA Commonwealth Environmental Associates, Inc.

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CERCLIS CERCLA Information Service

CERC-NFRAP CERCLIS No Further Remedial Action Planned CESQG Conditionally Exempt Small Quantity Generator

CFR Code of Federal Regulations
COAL ASH Coal Ash Disposal Sites
CORRACTS Corrective Action Site
DoD Department of Defense

ECOP Environmental Condition of Property

EDR Environmental Data Resources, Incorporated ERNS Federal Emergency Response Notification System

GIS Geographic Information Systems

HMIRS Hazardous Material Information Reporting System

INST CONTROLS Voluntary Remediation Program Database

LLP Landowner Liability Protections

LTANKS Leaking Storage Tanks

LUST Leaking Underground Storage Tank

MGP Manufactured Gas Plant NPL National Priorities List

NRCS Natural Resources Conservation Service

NWI National Wetlands Inventory

PC Pollution Complaint
PCB Polychlorinated Biphenyls
pCi/L Picocuries Per Liter
PWS Public Water Supply

RCRA Resource Conservation and Recovery Act

REAP Real Estate Action Plan

REC Recognized Environmental Condition
RIC Richmond International Airport
SPILLS Pollution Complaint Database
SQG Small Quantity Generator
SWF/LF Solid Waste Facility/Landfill

SWPPP Stormwater Pollution Prevention Plan

TSDF Treatment, Storage, and/or Disposal Facility

UMTRA Uranium Mill Tailings Sites

U.S. United States

USEPA U.S. Environmental Protection Agency

USFWS U.S. Fish and Wildlife Service

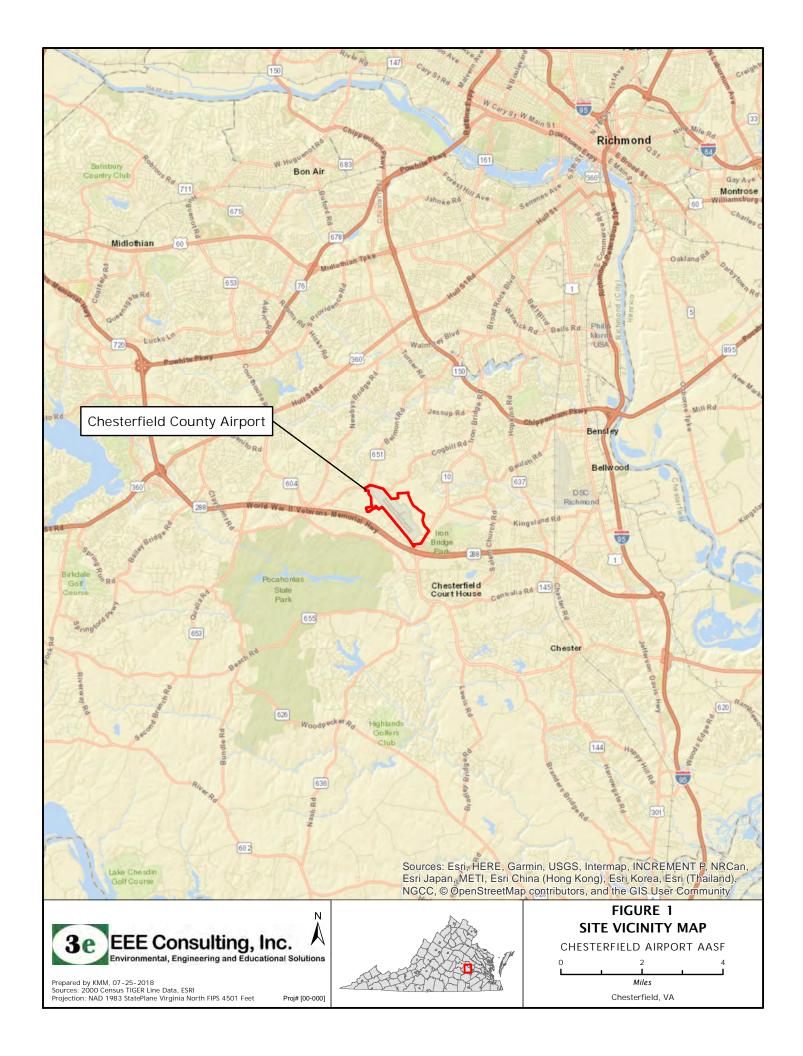
USGS U.S. Geological Survey
UST Underground Storage Tank
VAARNG Virginia Army National Guard

VDEQ Virginia Department of Environmental Quality

VDMA Department of Military Affairs

FIGURES

- Figure 1 Site Vicinity Map
- Figure 2
 Figure 3
- Aerial Photograph USGS Topographic Map
- Figure 4 Site Layout
- NWI Wetlands Map Figure 5
- Figure 6
 Figure 7 NRCS Soils Map Zoning Map





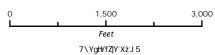


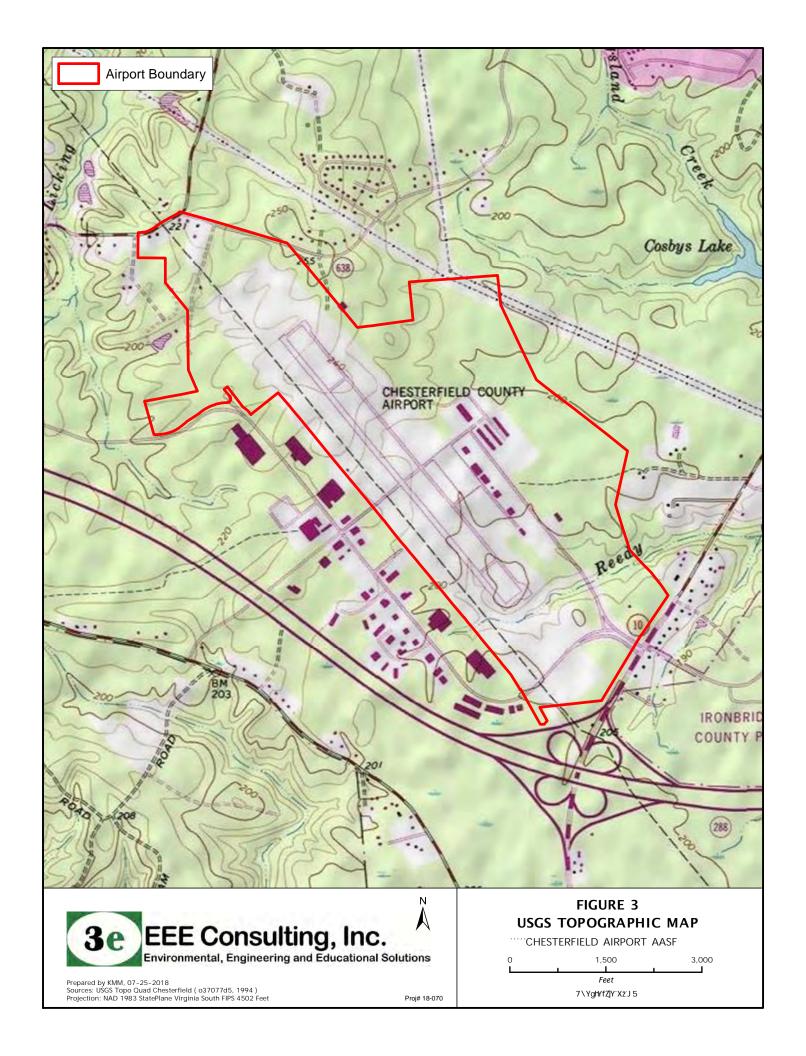
Prepared by KMM, 07-25-2018 Sources: USGS Topo Quad Chesterfield (037077d5, 1994) Projection: NAD 1983 StatePlane Virginia South FIPS 4502 Feet

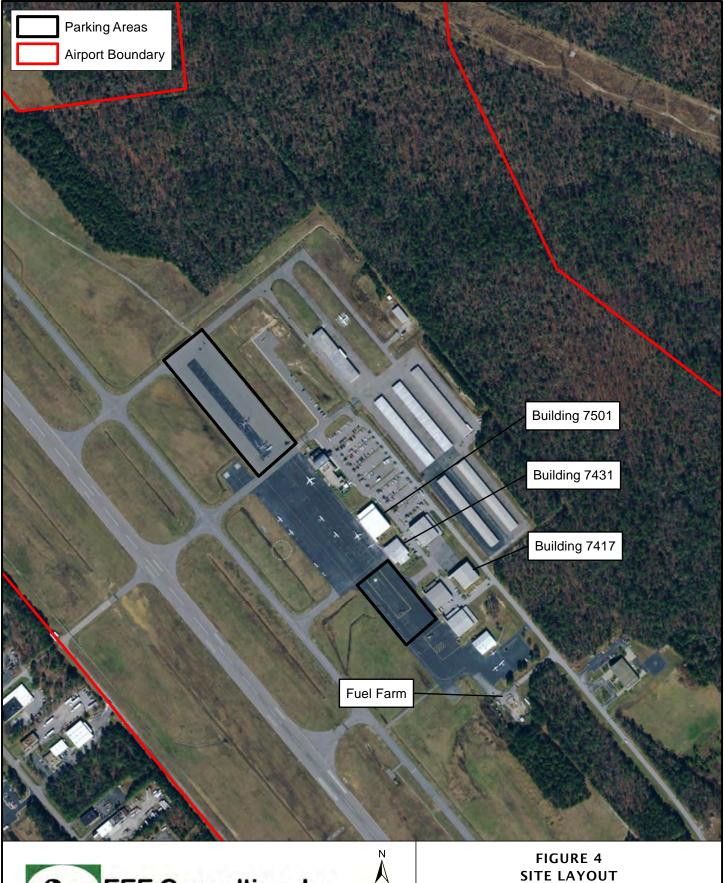
Proj# 18-070

FIGURE 2 AERIAL PHOTOGRAPH

CHESTERFIELD AIRPORT AASF





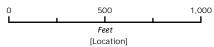


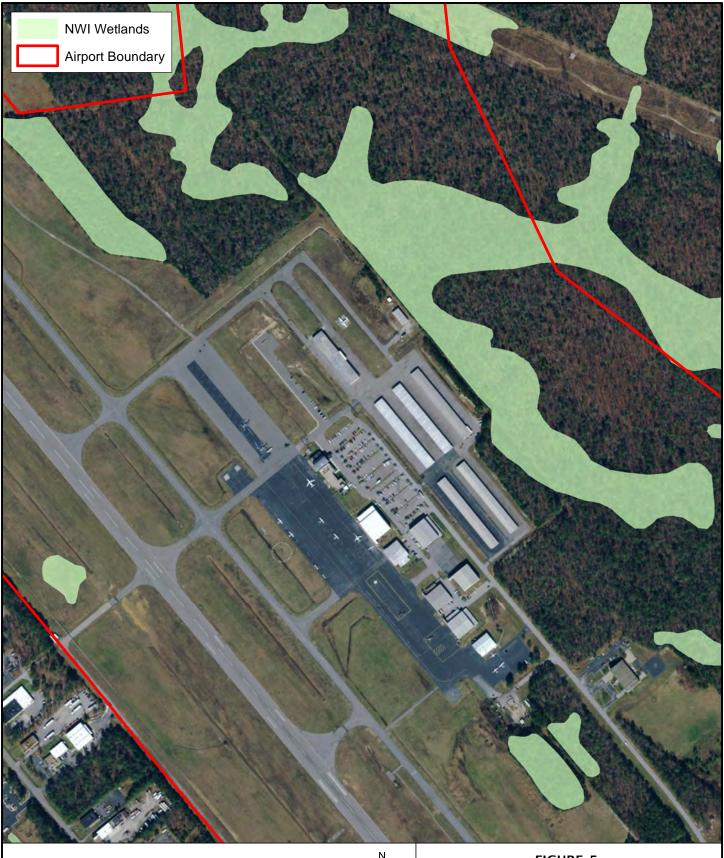


Prepared by KMM, 07-25-2018 Sources: Virginia Geographic Information Network (VGIN) Projection: NAD 1983 StatePlane Virginia South FIPS 4502 Feet

Proj# 18-070

CHESTERFIELD AIRPORT AASF





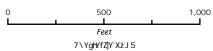


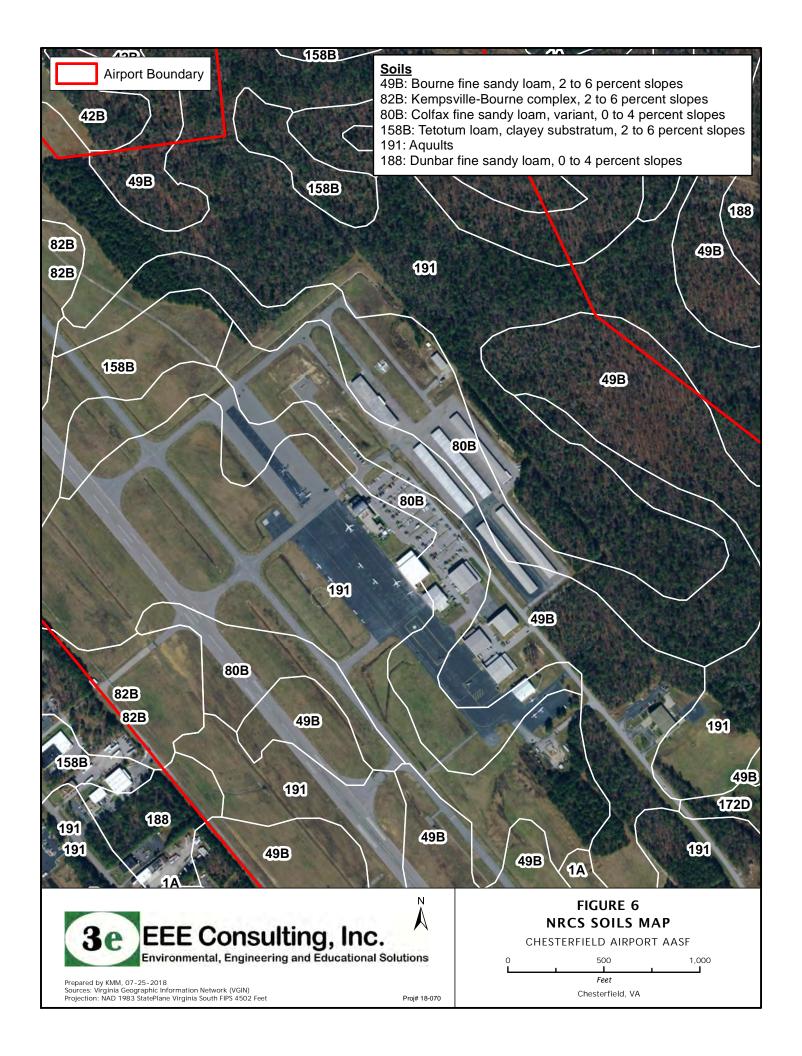
Prepared by KMM, 07-25-2018 Sources: Virginia Geographic Information Network (VGIN), NWI Projection: NAD 1983 StatePlane Virginia South FIPS 4502 Feet

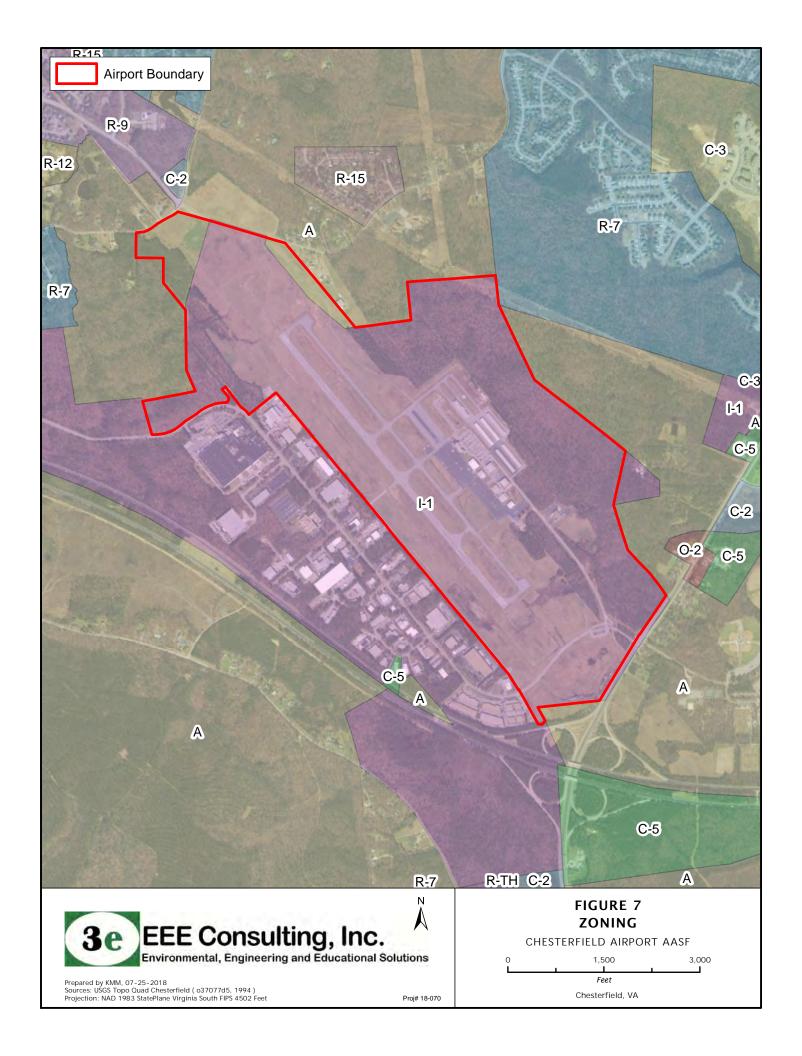
FIGURE 5 NWI WETLANDS MAP

Proj# 18-070

·····CHESTERFIELD AIRPORT AASF







APPENDIX A

Site Photographs



Building 7501, Second Floor Interior and Hallway





Building 7501, Exterior



Building 7431, Exterior



Building 7431, First Floor Interior



Building 7431, First Floor Interior



Building 7431, Hangar Interior



Building 7431, Hangar Interior



Building 7417, Hanger Exterior



Building 7417, Hanger Interior



Airport Fuel Farm, located southeast of Bldg 7417



55-gallon water/fuel drum storage at Fuel Farm



View facing east of Site



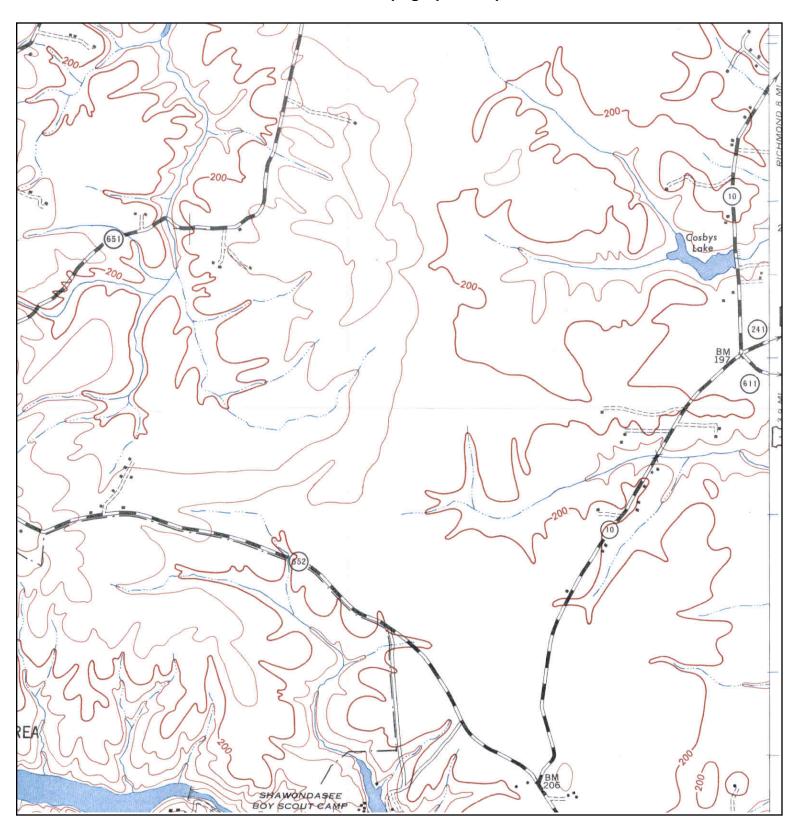
View of facing southeast of the Site



View facing north of Site

APPENDIX B

Historical Topographic Maps and Aerial Photographs





TARGET QUAD

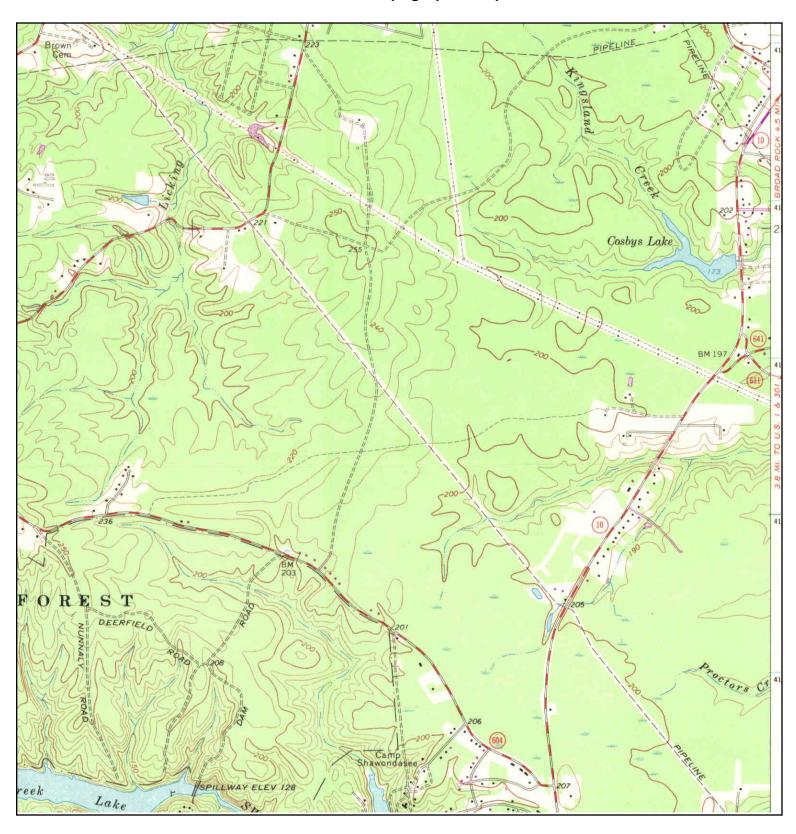
NAME: CHESTERFIELD

MAP YEAR: 1943

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Chesterfield Airport ADDRESS: 7431 Airfield Drive

Richmond, VA 23237

LAT/LONG: 37.4058 / -77.5197





TARGET QUAD

NAME: CHESTERFIELD

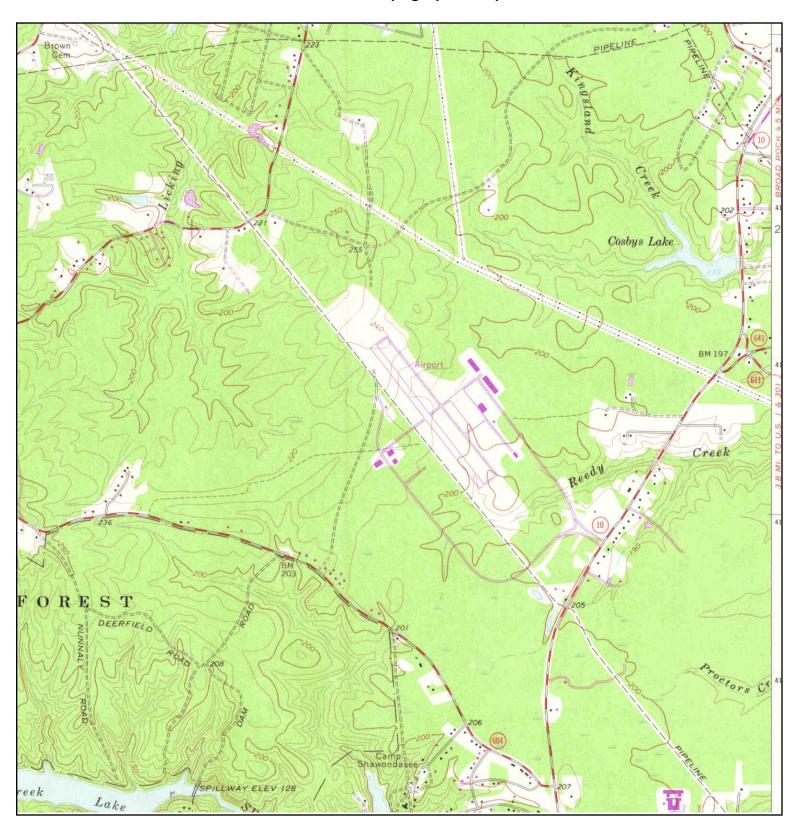
MAP YEAR: 1968

PHOTOREVISED FROM: 1963

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Chesterfield Airport ADDRESS: 7431 Airfield Drive

7431 Airfield Drive Richmond, VA 23237

LAT/LONG: 37.4058 / -77.5197





TARGET QUAD

NAME: CHESTERFIELD

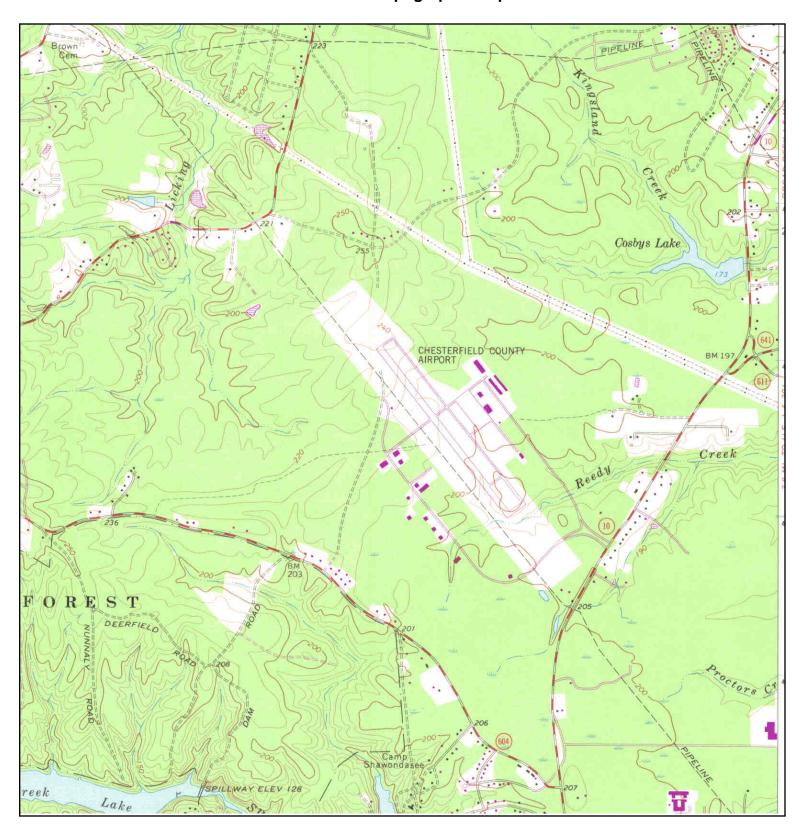
MAP YEAR: 1974

PHOTOREVISED FROM: 1963

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Chesterfield Airport

ADDRESS: 7431 Airfield Drive Richmond, VA 23237

LAT/LONG: 37.4058 / -77.5197





TARGET QUAD

NAME: CHESTERFIELD

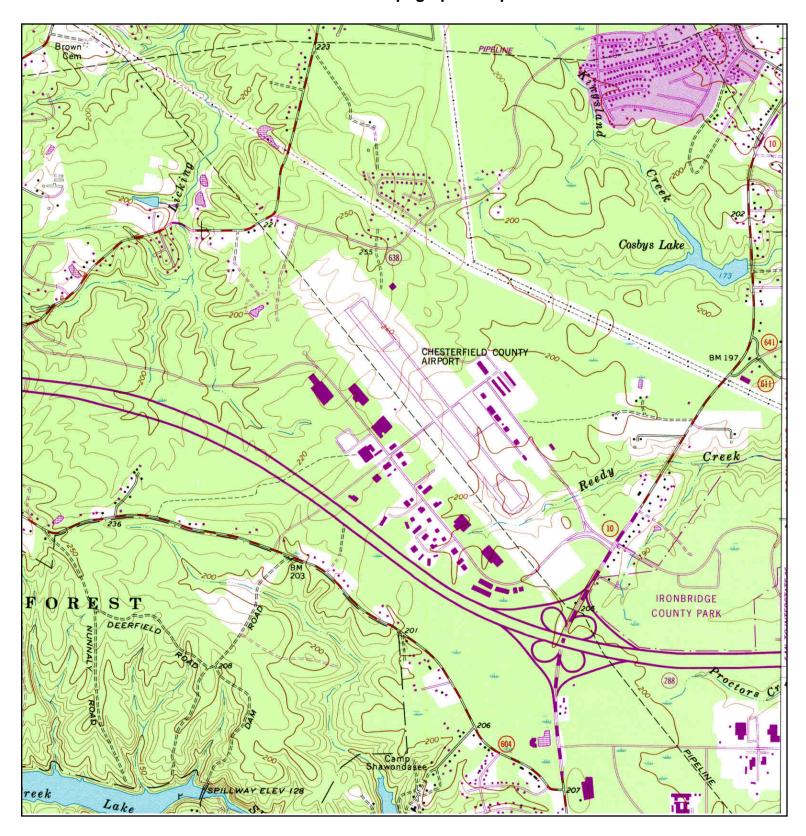
MAP YEAR: 1980

PHOTOREVISED FROM: 1963

SERIES: 7.5 SCALE: 1:24000 SITE NAME: Chesterfield Airport ADDRESS: 7431 Airfield Drive

S: 7431 Airfield Drive Richmond, VA 23237

LAT/LONG: 37.4058 / -77.5197





TARGET QUAD

SCALE:

NAME: CHESTERFIELD

1:24000

MAP YEAR: 1994 REVISED FROM :1963 SERIES: 7.5 SITE NAME: Chesterfield Airport ADDRESS: 7431 Airfield Drive

LAT/LONG:

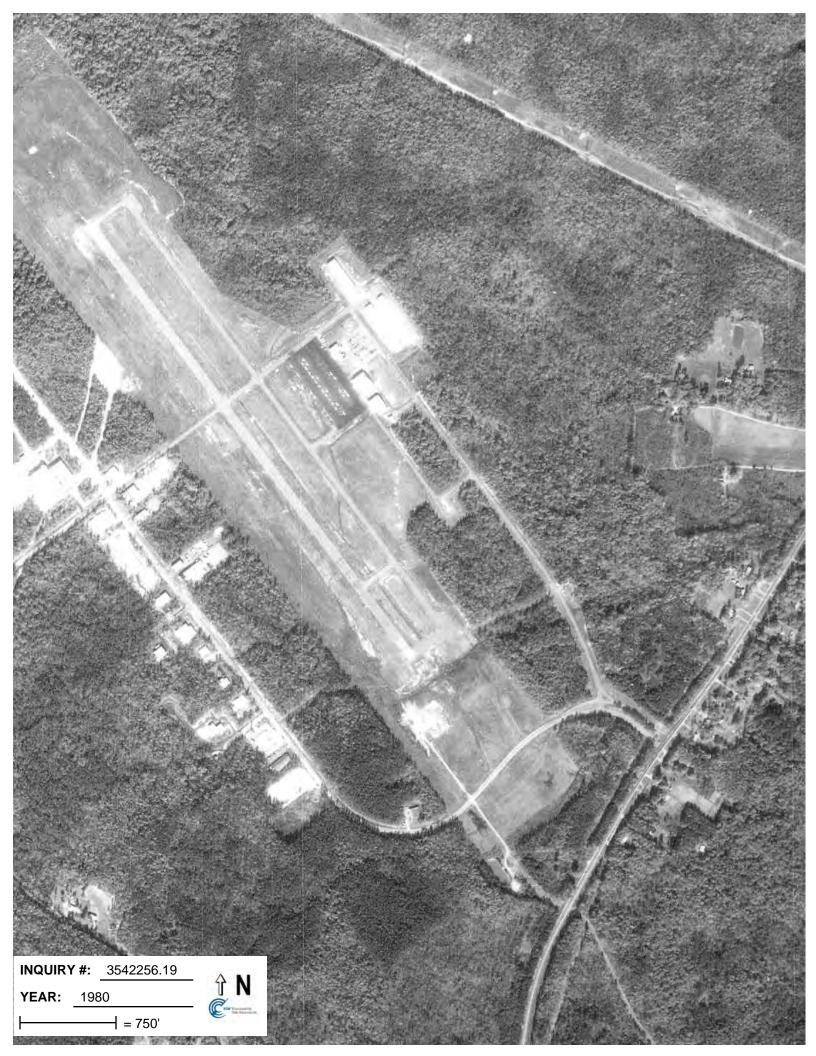
Richmond, VA 23237

37.4058 / -77.5197

















APPENDIX C

Regulatory Database Summary Report

Chesterfield County Airport

7511 Airfield Drive Richmond, VA 23237

Inquiry Number: 5340357.2s

June 21, 2018

EDR Summary Radius Map Report



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

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Map Findings.	8
Orphan Summary	. 21
Government Records Searched/Data Currency Tracking	GR-1
GEOCHECK ADDENDUM	

GeoCheck - Not Requested

Thank you for your business.
Please contact EDR at 1-800-352-0050 with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

7511 AIRFIELD DRIVE RICHMOND, VA 23237

COORDINATES

Latitude (North): 37.4077200 - 37° 24' 27.79" Longitude (West): 77.5223920 - 77° 31' 20.61"

Universal Tranverse Mercator: Zone 18 UTM X (Meters): 276746.9 UTM Y (Meters): 4142885.8

Elevation: 216 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: TF

Source: U.S. Geological Survey

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140814 Source: USDA

MAPPED SITES SUMMARY

Target Property Address: 7511 AIRFIELD DRIVE RICHMOND, VA 23237

Click on Map ID to see full detail.

MAP	•			RELATIVE	DIST (ft. & mi.)
ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	ELEVATION	DIRECTION
A1	CHESTERFIELD COUNTY	7511 AIRFIELD DRIVE	RCRA-SQG		TP
A2	CHESTERFIELD COUNTY	7511 AIRFIELD DRIVE	FINDS, ECHO		TP
A3	CHESTERFIELD COUNTY	7511 AIRFIELD DR	LTANKS, UST, AST, Financial Assurance		TP
A4		7511 AIRFIELD DR.	ERNS		TP
A5		7511 AIRFIELD DR	ERNS		TP
6	FRITO LAY SALES DIST	8010 WHITEBARK TER	LUST, LTANKS, UST	Higher	2539, 0.481, SSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
CHESTERFIELD COUNTY 7511 AIRFIELD DRIVE RICHMOND, VA 23237	RCRA-SQG EPA ID:: VAR000512889	VAR000512889
CHESTERFIELD COUNTY 7511 AIRFIELD DRIVE RICHMOND, VA 23237	FINDS Registry ID:: 110031363263 ECHO Registry ID: 110031363263	N/A
CHESTERFIELD COUNTY 7511 AIRFIELD DR RICHMOND, VA 23237	LTANKS Facility Status: Closed CEDS Facility Id: 200000179857 Pollution Complaint #: 20184099	N/A
	UST Tank Status: CURR IN USE Facility Id: 4000010 CEDS Facility ID: 200000179857	
	AST Facility ID: 4000010 CEDS Facility ID: 200000179857	
	Financial Assurance Database: Financial Assurance 1, Date of Government Versi Facility ID: 4000010 ROF Own Id: 47790	on: 01/31/2018
7511 AIRFIELD DR. 7511 AIRFIELD DR. RICHMOND, VA 23237	ERNS NRC Report #: 645011	N/A
7511 AIRFIELD DR 7511 AIRFIELD DR RICHMOND, VA 23237	ERNS NRC Report #: 127110	N/A

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

LUST: A review of the LUST list, as provided by EDR, has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FRITO LAY SALES DIST	8010 WHITEBARK TER	SSW 1/4 - 1/2 (0.481 mi.)	6	9
Database: LUST REG PD, Date of G	Sovernment Version: 12/02/2014			

Facility Status: Closed

Pollution Complaint #: 19939404 Pollution Complaint #: 19900100

LTANKS: A review of the LTANKS list, as provided by EDR, and dated 02/02/2018 has revealed that there is 1 LTANKS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FRITO LAY SALES DIST	8010 WHITEBARK TER	SSW 1/4 - 1/2 (0.481 mi.)	6	9
Facility Status: Closed CEDS Facility Id: 200000171643				
Pollution Complaint #: 19900100				

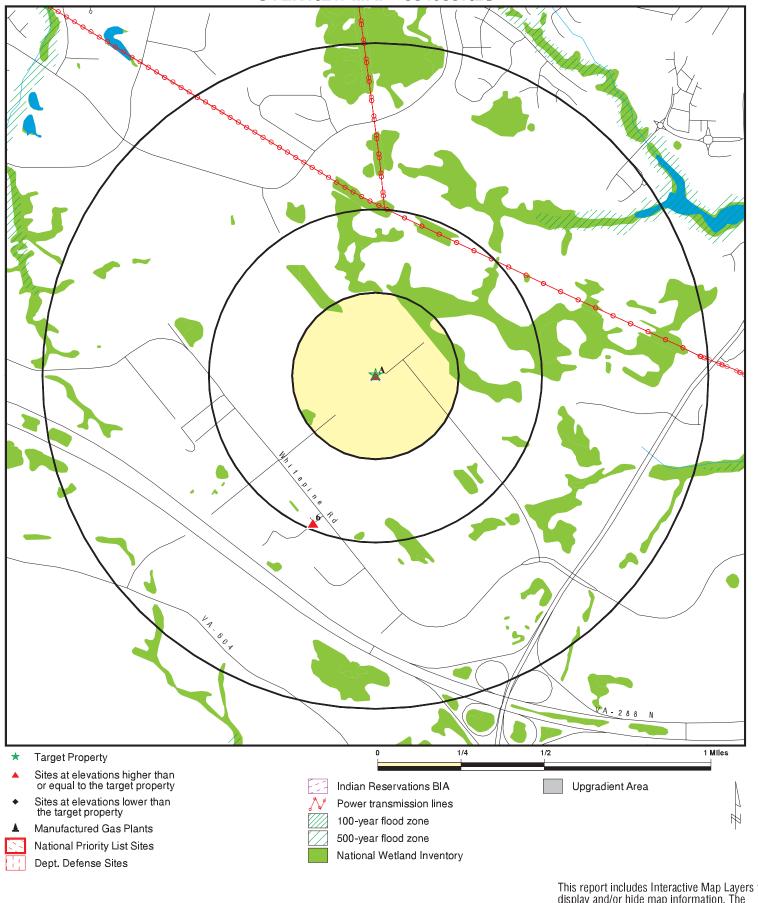
s)	
Database(
Zip	
Site Address	
Site Name	
EDR ID	
City	

ORPHAN SUMMARY

Count: 0 records.

NO SITES FOUND

OVERVIEW MAP - 5340357.2S



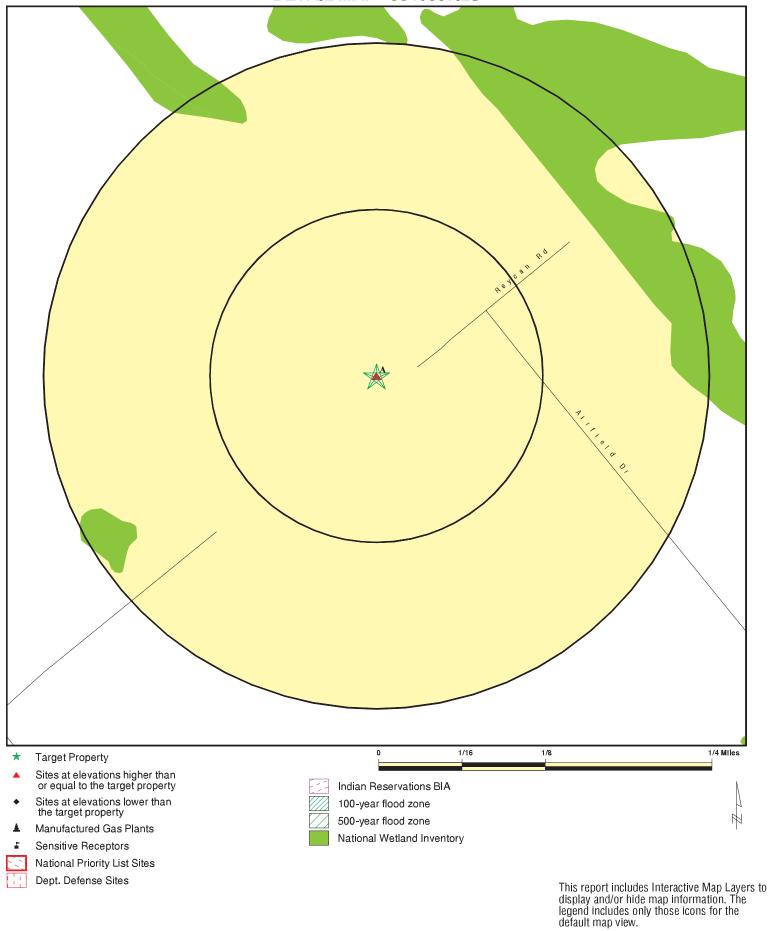
This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Chesterfield County Airport ADDRESS: 7511 Airfield Drive

Richmond VA 23237 LAT/LONG: 37.40772 / 77.522392 CLIENT: EEE Consulting CONTACT: Carroll Ellis INQUIRY#: 5340357.2s

DATE: June 21, 2018 4:17 pm

DETAIL MAP - 5340357.2S



June 21, 2018 4:20 pm

Copyright © 2018 EDR, Inc. © 2015 TomTom Rel. 2015.

EEE Consulting

Carroll Ellis

INQUIRY #: 5340357.2s

CLIENT: CONTACT:

DATE:

SITE NAME:

ADDRESS:

LAT/LONG:

Chesterfield County Airport

7511 Airfield Drive

Richmond VA 23237

37.40772 / 77.522392

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted		
STANDARD ENVIRONMENTAL RECORDS										
Federal NPL site list										
NPL Proposed NPL NPL LIENS	1.000 1.000 TP		0 0 NR	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0		
Federal Delisted NPL sit	te list									
Delisted NPL	1.000		0	0	0	0	NR	0		
Federal CERCLIS list										
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0		
Federal CERCLIS NFRA	P site list									
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0		
Federal RCRA CORRAC	TS facilities li	st								
CORRACTS	1.000		0	0	0	0	NR	0		
Federal RCRA non-COR	RACTS TSD f	acilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0		
Federal RCRA generator	rs list									
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250	1	0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 1 0		
Federal institutional con engineering controls re										
LUCIS US ENG CONTROLS US INST CONTROL	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0		
Federal ERNS list										
ERNS	TP	2	NR	NR	NR	NR	NR	2		
State- and tribal - equiva	alent CERCLIS	8								
SHWS	N/A		N/A	N/A	N/A	N/A	N/A	N/A		
State and tribal landfill a solid waste disposal site										
SWF/LF	0.500		0	0	0	NR	NR	0		
State and tribal leaking	storage tank l	ists								
LUST INDIAN LUST LTANKS	0.500 0.500 0.500	1	0 0 0	0 0 0	1 0 1	NR NR NR	NR NR NR	1 0 2		
State and tribal registere	ed storage tan	ık lists								
FEMA UST	0.250		0	0	NR	NR	NR	0		

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST AST INDIAN UST	0.250 0.250 0.250	1	0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	1 1 0
State and tribal institution control / engineering con		s						
ENG CONTROLS INST CONTROL	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal voluntary	cleanup site	es						
VCP INDIAN VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfie	lds sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMEN	TAL RECORDS	<u>5</u>						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / S Waste Disposal Sites	olid							
INDIAN ODI DEBRIS REGION 9 ODI IHS OPEN DUMPS	0.500 0.500 0.500 0.500		0 0 0 0	0 0 0 0	0 0 0 0	NR NR NR NR	NR NR NR NR	0 0 0 0
Local Lists of Hazardous Contaminated Sites	waste /							
US HIST CDL US CDL	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency R	elease Repo	rts						
HMIRS SPILLS SPILLS 90	TP TP TP		NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 0 0
Other Ascertainable Reco	ords							
RCRA NonGen / NLR FUDS DOD SCRD DRYCLEANERS US FIN ASSUR EPA WATCH LIST 2020 COR ACTION TSCA	0.250 1.000 1.000 0.500 TP TP 0.250		0 0 0 0 NR NR 0 NR	0 0 0 0 NR NR NR 0	NR 0 0 0 NR NR NR NR	NR 0 0 NR NR NR NR	NR NR NR NR NR NR NR	0 0 0 0 0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Database	(Willes)	Troperty	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 	1/0 - 1/4	1/4 - 1/2	1/2 - 1		1 101164
TRIS SSTS ROD RMP RAATS PRP PADS ICIS FTTS MLTS COAL ASH DOE COAL ASH EPA PCB TRANSFORMER RADINFO HIST FTTS DOT OPS CONSENT INDIAN RESERV FUSRAP UMTRA LEAD SMELTERS US AIRS US MINES ABANDONED MINES FINDS UXO ECHO DOCKET HWC FUELS PROGRAM AIRS NPDES COAL ASH DRYCLEANERS ENF	TP TP 1.000 TP TP TP TP TP TP TP TP TP TP TP TP TP	1 1	NR O RR RR RR RR O RR NR O O O O RR O O RO RR O RR O O RR O RR O O O O O O O O O O O O O O O O O O O O	NR O R R R R R R O R R R R O O O O O R O	NR O R R R R R R R O R R R R O O O O O	NR 0 R R R R R R R R R R R R O 0 0 R R R R		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Financial Assurance TIER 2	TP TP	1	NR NR	NR NR	NR NR	NR NR	NR NR	1 0
UIC	TP		NR	NR	NR	NR	NR	Ö
EDR HIGH RISK HISTORICA	AL RECORDS							
EDR Exclusive Records								
EDR MGP EDR Hist Auto EDR Hist Cleaner EDR RECOVERED GOVERN	1.000 0.125 0.125	/FS	0 0 0	0 NR NR	0 NR NR	0 NR NR	NR NR NR	0 0 0
LDR RECOVERED GOVERN	AMERI AROUN	<u>, 23</u>						
Exclusive Recovered Go								
RGA LF	TP		NR	NR	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals		9	0	0	2	0	0	11

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

Map ID MAP FINDINGS

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

A1 CHESTERFIELD COUNTY AIRPORT RCRA-SQG 1010337254
Target 7511 AIRFIELD DRIVE VAR000512889

Target 7511 AIRFIELD DRIVE Property RICHMOND, VA 23237

Actual: 216 ft.

RCRA-SQG

EPA Id: VAR000512889

Click here for full text details

A2 CHESTERFIELD COUNTY AIRPORT FINDS 1010459558
Target 7511 AIRFIELD DRIVE ECHO N/A

Target 7511 AIRFIELD DRIVE Property RICHMOND, VA 23237

Click here for full text details

Actual:

Actual: 216 ft.

FINDS

Registry ID:: 110031363263

ECHO

Registry ID: 110031363263

A3 CHESTERFIELD COUNTY AIRPORT LTANKS U003682566
Target 7511 AIRFIELD DR UST N/A

Property RICHMOND, VA 23237 AST
Financial Assurance

Click here for full text details

Actual: 216 ft.

LTANKS

Facility Status: Closed CEDS Facility Id: 200000179857

Pollution Complaint #: 20184099

UST

Tank Status: CURR IN USE Facility Id: 4000010

CEDS Facility ID: 200000179857

AST

Facility ID: 4000010

CEDS Facility ID: 200000179857

Financial Assurance

Facility ID: 4000010 ROF Own Id: 47790 Map ID MAP FINDINGS

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

A4 ERNS 2003645011
Target 7511 AIRFIELD DR. N/A

Target 7511 AIRFIELD DR.
Property RICHMOND, VA 23237

Click here for full text details

Actual: 216 ft.

ERNS

NRC Report #: 645011

A5 ERNS 92127110

Target 7511 AIRFIELD DR Property RICHMOND, VA 23237

, ,

Click here for full text details

Actual: 216 ft.

ERNS

NRC Report #: 127110

6 FRITO LAY SALES DISTRIBUTION CTR LUST

6 FRITO LAY SALES DISTRIBUTION CTR SSW 8010 WHITEBARK TER 1/4-1/2 RICHMOND, VA 23237

0.481 mi. 2539 ft.

Click here for full text details

Relative: Higher

LUST

Pollution Complaint #: 19939404 Pollution Complaint #: 19900100

Facility Status: Closed

LTANKS

Facility Status: Closed

CEDS Facility Id: 200000171643 Pollution Complaint #: 19900100

UST

Tank Status: REM FROM GRD

Facility Id: 4016485

CEDS Facility ID: 200000171643

N/A

U003686162

N/A

LTANKS

UST

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
VA	AIRS	Permitted Airs Facility List	Department of Environmental Quality	03/28/2018	03/30/2018	04/27/2018
VA	AST	Registered Petroleum Storage Tanks	Department of Environmental Quality	02/02/2018	02/28/2018	03/26/2018
VA	BROWNFIELDS	Brownfields Site Specific Assessments	Department of Environmental Quality	04/19/2018	04/25/2018	04/30/2018
VA	CEDS	Comprehensive Environmental Data System	Department of Environmental Quality	03/06/2018	03/16/2018	05/10/2018
VA	COAL ASH	Coal Ash Disposal Sites	Department of Environmental Protection	07/29/2009	07/31/2009	08/21/2009
VA	DRYCLEANERS	Drycleaner List	Department of Environmental Quality	12/31/2016	10/19/2017	12/01/2017
VA	ENFORCEMENT	Enforcement Actions Data	Department of Environmental Quality	03/19/2018	03/23/2018	04/27/2018
VA	ENG CONTROLS	Engineering Controls Sites Listing	Department of Environmental Quality	03/29/2018	04/03/2018	04/11/2018
VA	Financial Assurance 1	Financial Assurance Information Listing	Department of Environmental Quality	01/31/2018	02/01/2018	03/26/2018
VA	Financial Assurance 2	Financial Assurance Information listing	Department of Environmental Quality	02/01/2018	02/09/2018	03/23/2018
VA	INST CONTROL	Voluntary Remediation Program Database	Department of Environmental Quality	03/29/2018	04/03/2018	04/11/2018
VA	LTANKS	Leaking Petroleum Storage Tanks	Department of Environmental Quality	02/02/2018	02/28/2018	03/23/2018
VA	LUST REG NO	Leaking Underground Storage Tank Tracking Database	Department of Environmental Quality Northern	05/18/2004	05/22/2004	07/09/2004
VA	LUST REG PD	Leaking Underground Storage Tank Sites	Department of Environmental Quality Piedmont	12/02/2014	12/04/2014	01/16/2015
VA	LUST REG SC	Leaking Underground Storage Tanks	Department of Environmental Quality, South Ce	09/06/2013	09/06/2013	09/17/2013
VA	LUST REG SW	Leaking Underground Storage Tank Database	Department of Environmental Quality Southwest	07/15/2013	07/18/2013	09/16/2013
VA	LUST REG TD	Leaking Underground Storage Tank Sites	Department of Environmental Quality Tidewater	06/30/2013	07/05/2013	09/16/2013
VA	LUST REG VA	Leaking Underground Storage Tank List	Department of Environmental Quality Valley Re	12/06/2011	12/08/2011	01/16/2012
VA	LUST REG WC	Leaking Underground Storage Tank List	Department of Environmental Quality West Cent	06/04/2015	06/05/2015	07/07/2015
VA	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Environmental Quality	00/01/2010	07/01/2013	01/20/2014
VA	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	Department of Environmental Quality		07/01/2013	01/15/2014
VA	SHWS	This state does not maintain a SHWS list. See the Federal CE	Department of Environmental Quality		0170172010	01/10/2011
VA	SPILLS	Prep/Spills Database Listing	Department of Environmental Quality	02/02/2018	02/28/2018	03/23/2018
VA	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	09/01/2012	01/03/2013	02/15/2013
VA	SPILLS BRL	Prep/Spills Database Listing	DEQ, Blue Ridge Regional Office	09/18/2009	09/18/2009	10/06/2009
VA	SPILLS NO	PREP Database	Department of Environmental Quality, Northern	09/23/2009	09/29/2009	10/30/2009
VA	SPILLS PC	Pollution Complaint Database	Department of Environmental Quality	06/01/1996	10/22/1996	11/21/1996
VA	SPILLS PD	PREP Database	Department of Environmental Quality, Piedmont	10/20/2009	10/29/2009	12/03/2009
VA	SPILLS SW	Reportable Spills	Department of Environmental Quality, Southwes	01/21/2010	01/22/2010	02/16/2010
VA	SPILLS TD	PREP Database	Department of Environmental Quality, Tidewate	09/17/2009	09/23/2009	10/06/2009
VA	SPILLS VA	PREP Database	Department of Environmental Quality, Valley R	08/08/2012	08/09/2012	10/05/2012
VA	SPILLS WC	Prep Database	Department of Environmental Quality, West Cen	09/21/2009	09/29/2009	10/30/2009
VA	SWF/LF	Solid Waste Management Facilities	Department of Environmental Quality	03/07/2018	03/09/2018	04/27/2018
VA	TIER 2	Tier 2 Information Listing	Department of Environmental Quality	12/31/2014	01/20/2017	02/14/2017
VA	UIC	Underground Injection Control Wells	Department of Mines, Minerals and Energy	01/30/2018	02/02/2018	03/23/2018
VA	UST	Registered Petroleum Storage Tanks	Department of Environmental Quality	02/02/2018	02/02/2018	03/26/2018
VA	VRP	Voluntary Remediation Program	Department of Environmental Quality	03/29/2018	04/03/2018	04/11/2018
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	04/22/2013	03/03/2015	03/09/2015
US	ABANDONED MINES	Abandoned Mines	Department of Interior	03/08/2018	03/03/2013	06/08/2018
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2015	02/22/2017	09/28/2017
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2015	08/07/2009	10/22/2009
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	07/01/2014	09/10/2014	10/20/2014
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	12/31/2017	01/24/2018	04/13/2018
US	CORRACTS	Corrective Action Report	EPA	12/31/2017	12/26/2017	02/09/2018
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	01/04/2018	01/19/2018	04/13/2018
	DOD	Department of Defense Sites	USGS		11/10/2006	01/11/2007
US	DOD	Department of Defense Sites	0000	12/31/2005	11/10/2006	01/11/2007

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	DOT OPS	Incident and Accident Data	Department of Transporation, Office of Pipeli	07/31/2012	08/07/2012	09/18/2012
US	Delisted NPL	National Priority List Deletions	EPA	12/11/2017	12/22/2017	01/05/2018
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	02/25/2018	03/17/2018	06/08/2018
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	03/19/2018	03/27/2018	06/08/2018
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	11/07/2016	01/05/2017	04/07/2017
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	12/31/2005	02/06/2006	01/11/2007
US	FEMA UST	Underground Storage Tank Listing	FEMA	05/15/2017	05/30/2017	10/13/2017
US	FINDS	Facility Index System/Facility Registry System	EPA	02/21/2018	02/23/2018	03/23/2018
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	01/31/2015	07/08/2015	10/13/2015
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	02/20/2018	02/21/2018	03/23/2018
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	12/23/2016	12/27/2016	02/17/2017
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	03/26/2018	03/27/2018	06/08/2018
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Serivces, Indian	04/01/2014	08/06/2014	01/29/2015
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	10/14/2017	01/23/2018	04/13/2018
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	10/24/2017	01/23/2018	04/13/2018
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	10/14/2017	01/23/2018	04/13/2018
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	10/16/2017	01/23/2018	04/13/2018
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	01/06/2018	01/23/2018	04/13/2018
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	10/12/2017	01/23/2018	04/13/2018
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	10/12/2017	01/23/2018	04/13/2018
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	09/30/2017	01/23/2018	04/13/2018
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	10/14/2017	01/23/2018	04/13/2018
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	10/24/2017	01/23/2018	04/13/2018
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	10/14/2017		04/13/2018
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	10/16/2017	01/23/2018	04/13/2018
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	04/24/2017	07/27/2017	12/08/2017
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	01/13/2018	01/23/2018	04/13/2018
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	10/12/2017		04/13/2018
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	09/30/2017	01/23/2018	04/13/2018
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Listing Voluntary Cleanup Priority Listing	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	01/09/2018	02/06/2018	03/02/2018
US	LEAD SMELTER 1	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	04/03/2001	02/06/2018	05/11/2018
US	LUCIS	Land Use Control Information System	Department of the Navy	02/16/2018	02/22/2018	05/11/2018
	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	08/30/2016	09/08/2016	10/21/2016
03	IVILIO	Material Electioning Tracking System	Nacional Negulatory Commission	00/30/2010	03/00/2010	10/21/2010

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	NPL	National Priority List	EPA	12/11/2017	12/22/2017	01/05/2018
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	06/01/2017	06/09/2017	10/13/2017
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	05/24/2017	11/30/2017	12/15/2017
US	PRP	Potentially Responsible Parties	EPA	10/25/2013	10/17/2014	10/20/2014
US	Proposed NPL	Proposed National Priority List Sites	EPA	12/11/2017	12/22/2017	01/05/2018
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	01/03/2018	01/04/2018	04/13/2018
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generators	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	RMP	Risk Management Plans	Environmental Protection Agency	11/02/2017	11/17/2017	12/08/2017
US	ROD	Records Of Decision	EPA	01/09/2018	02/06/2018	05/11/2018
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	01/01/2017	02/03/2017	04/07/2017
US	SEMS	Superfund Enterprise Management System	EPA	01/09/2018	02/06/2018	04/13/2018
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	01/09/2018	02/06/2018	04/13/2018
US	SSTS	Section 7 Tracking Systems	EPA	12/31/2009	12/10/2010	02/25/2011
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2016	01/10/2018	01/12/2018
US	TSCA	Toxic Substances Control Act	EPA	12/31/2016	06/21/2017	01/05/2018
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	06/23/2017	10/11/2017	11/03/2017
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	03/19/2018	03/21/2018	06/08/2018
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	02/22/2018	03/01/2018	05/11/2018
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	02/13/2018	02/27/2018	05/11/2018
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	01/11/2018	01/19/2018	03/02/2018
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	02/22/2018	03/01/2018	05/11/2018
US	US INST CONTROL	Sites with Institutional Controls	Environmental Protection Agency	02/13/2018	02/27/2018	05/11/2018
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	01/25/2018	02/28/2018	05/11/2018
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	12/05/2005	02/29/2008	04/18/2008
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UXO	Unexploded Ordnance Sites	Department of Defense	09/30/2016	10/31/2017	01/12/2018

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	01/03/2018	02/14/2018	03/22/2018
NJ	NJ MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2016	04/11/2017	07/27/2017
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	04/30/2018	05/03/2018	06/07/2018
PA	PA MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2016	07/25/2017	09/25/2017
RI	RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2017	02/23/2018	04/09/2018
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	12/31/2016	04/13/2017	07/14/2017
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
VA	Daycare Centers	Sensitive Receptor: Licensed Facilities	Department of Social Services			
ше	Flood Zonoo	100 year and E00 year flood zones	Emergency Management Agency (FFMA)			
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
US	Topographic Map		U.S. Geological Survey			
US	Oil/Gas Pipelines		PennWell Corporation			
US	Electric Power Transmission Line D	Pata	PennWell Corporation			

STREET AND ADDRESS INFORMATION

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Commonwealth Environmental Associates, Inc.

7411 Iron Bridge Rd. • Richmond, VA 23237 • 804.275.9320 • Fax: 804.275.9322

FINDINGS REPORT LIMITED SOIL SAMPLING REPORT CHESTERFIELD AIRPORT - FUEL FARM PC 1099 7511 AIRFIELD DRIVE **RICHMOND, VIRGINIA 23237**

Prepared for:

Dominion Aviation 7511 Airfield Drive Richmond, Virginia 23237

Prepared by:

Commonwealth Environmental Associates, Inc. 7411 Iron Bridge Road Richmond, Virginia 23237

June 23,2017



Commonwealth Environmental Associates, Inc.

7411 Iron Bridge Rd. • Richmond, VA 23237 • 804.275.9320 • Fax: 804.275.9322

June 23, 2017

Dominion Aviation 7511 Airfield Drive Richmond, Virginia 23237

Attn: Mr. Jeff Smith

RE: Limited Soil Sampling Report

Chesterfield Airport – Fuel Farm

7511 Airfield Drive

Richmond, Virginia 23237 CEA Project No. 7817

Mr. Smith,

Commonwealth Environmental Associates, Inc. (CEA) is pleased to submit this report documenting the limited field services completed regarding soil sample collection and analysis performed at the above referenced property. The proposed scope of services was based on information provided by the client and completed under the scope of services within proposal number DA170321, dated March 21, 2017.

Purpose of Services

To complete soil sampling in the shallow excavated areas located in the proximity of the fuel farm concrete pad in order to collect samples for field screening of volatile organic vapor content utilizing a MiniRae photo-ionization detector (PID). The findings of the field screening of the soil samples were reviewed with Dominion Aviation personnel prior to the collection of samples for further laboratory analysis.

Project Background

On February 1, 2017, a release of aviation fuel identified as Jet A was reported at the Chesterfield Airport – Fuel Farm from an underground storage tank (UST) vent pipe. Response actions were undertaken by Dominion Aviation to address the fuel noted on the surface of the concrete pad covering the UST locations and around the fenced perimeter of the pad. Released fuel was noted to have impacted areas located on the northeast, southeast and southwest side of the concrete pad. Absorbents were utilized to collect released fuel and limited impacted soil was removed for disposal.

Hand excavation of soil along the perimeter of the concrete pad was completed to a depth of approximately 0.5 feet with the width of the excavation measuring 0.5 to 1.0 feet. Impacted surface grass and soil to depths of up to 2 to 3 inches was removed extending away from the pad perimeter to address the released fuel. The removed soil and used absorbent were placed within DOT rated drums for temporary storage. Dominion Aviation contracted with Atlantic Industrial Services, Inc. to transport and dispose of thirty (30) drums of soil and three (3) drums of used absorbents generated during the spill response.

Calculations made by Chesterfield County and Dominion Aviation personnel indicated that the volume of fuel released was less than 25-gallons, with an estimated 15-gallons of fuel having flowed off of the pad. Based on the estimated volume of fuel released, a report of the spill was not completed with the Virginia Department of Environmental Quality (VDEQ).

Dominion Aviation personnel contacted Commonwealth Environmental Associates, Inc. (CEA) in regard to the spill and clean-up services completed at the site. On March 21, 2017, CEA personnel visited the subject site to review the fuel farm and discuss the project with Dominion Aviation personnel. CEA was advised that Chesterfield County had requested that soil samples be collected from the areas excavated and field screened for petroleum vapor content and samples be submitted to a certified laboratory for analysis to document the soil conditions at the site. Dominion Aviation personnel provided CEA with a hand drawn diagram depicting the sampling scheme requested by Chesterfield County. At the time of the site visit, CEA noted the shallow trench excavations contained ponding stormwater. It was advised that sampling within the trench locations would have to be completed when the locations were dry and did not contain water.

CEA personnel remained in contact with Dominion Aviation personnel on a frequent basis to assess the site conditions. Between April 2017 until June 13, 2017, the noted trench excavations reportedly contained water, postponing the field services.

Scope of Services

The scope of services proposed for this project includes the following activities:

- Provided the personnel and management required to complete the project.
- □ Contacted Miss Utility to have public underground utilities marked in the area of the tank farm prior to initiating the field services at the site.
- Provided the personnel and equipment to collect eleven (11) soil samples within the excavated area for field screening of volatile organic vapor content utilizing a MiniRae photo-ionization detector (PID).
- Reviewed the field findings of the soil sample screening activities with Dominion Aviation and Chesterfield County personnel.

- Collected six (6) soil samples from the excavated areas for laboratory analysis of total petroleum hydrocarbons / diesel range organic (TPH/DRO, 8015C). Per a discussion with Dominion Aviation personnel, four (4) of the collected soil samples were also submitted for laboratory analysis of total petroleum hydrocarbons / gasoline range organic (TPH/GRO, 8015C).
- Prepared a limited findings report presenting the site observations, field and chemical analysis results and pertinent maps and quality control documentation.

Field Activities

Commonwealth Environmental Associates, Inc. (CEA) personnel visited the subject site on June 13, 2017 to complete the requested field services. Mr. Jeff Smith with Dominion Aviation provided access to the fuel farm area. A visual review of the excavation previously completed around the perimeter of the fuel farm pad indicated some standing water in the southeastern end of the trench located on the southwest side of the concrete pad. A total of eleven (11) shallow soil borings were completed at the subject site utilizing stainless steel hand auger equipment. A map illustrating the general characteristics of the site and the soil boring locations is presented as Figure 1 and Figure 2 in Attachment A. Photographs of the boring locations are included in Attachment C.

Soil boring B-1 was advanced in the bottom of the shallow trench excavation on the northeast side of the tank pad to a depth of approximately 0.5 feet. Mixed soil and small gravel was noted with water viewed collecting within the boring. A strong odor of fuel was noted in the B-1 sample and exhibited a PID organic vapor concentration of 1,326 parts per million (ppm). Visual evidence of phase separated hydrocarbons (PSH) was noted on the sample collected and on the surface of the shallow water within the borehole. The presence of PSH was verified within the boring utilizing a petroleum absorbent pad.

Soil borings B-2 and B-3 were advanced in the bottom of the shallow trench excavation on the southeast side of the tank pad to a depth of approximately 0.5 feet. Brown, wet sandy clay was noted with water viewed collecting within the borings. A strong odor of fuel was noted in both of the samples collected with the B-2 and B-3 samples exhibiting PID organic vapor concentrations of 1,138 ppm and 1,332 ppm, respectively. Visual evidence of globules of PSH were noted on the surface of the shallow water within the B-3 borehole.

Soil borings B-4, B-5 and B-6 were advanced in the bottom of the shallow trench excavation on the southwest side of the tank pad to a depth of approximately 0.5 feet. Due to the volume of water entering the B-4 location, a sample was not collected for field screening. The B-5 sample consisted of brown, wet sandy clay, exhibited a fuel odor and contained a PID organic vapor concentration of 1,150 ppm. Water did collect within the B-5 boring. No visual indications of PSH was noted on the surface of the water at the B-4 and B-5 locations. The B-6 sample was collected toward the northwest end of the trench excavation and was noted as gray/brown moist clayey sand. No water was noted entering the boring. An odor of gasoline and fuel was noted by field personnel and the sample exhibited a PID organic vapor concentration of 2,120 ppm.

Soil borings B-7 and B-8 were advanced on the southwestern side of the tank pad in the area were shallow surface soil excavation had been completed. Both borings were advanced to a depth of approximately 0.75 feet. Brown, sandy clay was noted near the surface over an approximate 3-inch layer of crushed stone. A "weathered" petroleum odor was noted within the stone. Soil samples B-7 and B-8 were collected from the brown, sandy clay located below the stone. A mild odor of petroleum was noted in both samples collected with the B-7 and B-8 samples exhibiting PID organic vapor concentrations of 186 ppm and 236 ppm, respectively. No water was noted entering the boring locations.

Soil borings B-9 and B-10 were advanced on the southeastern side of the tank pad in the area were shallow surface soil excavation had been completed. Both borings were advanced to a depth of approximately 0.5 feet and consisted of brown, sandy clay. No petroleum odor was noted in the B-9 sample. Petroleum odor was noted in the B-10 sample. The B-9 and B-10 samples exhibited PID organic vapor concentrations of 8 ppm and 1,222 ppm, respectively. No water was noted entering the boring locations.

Soil boring B-11 was advanced on the northeastern side of the tank pad in the area were shallow surface soil excavation had been completed. The boring was advanced to a depth of approximately 0.5 feet and consisted of brown, sandy clay mixed with gravel. An odor of fuel was noted in the B-11 sample and exhibited a PID organic vapor concentration of 519 ppm. No water was noted entering the boring location.

Dominion Aviation personnel were present on-site to review the sample locations and to discuss the field findings. Additionally, Chesterfield County personnel were present in person and via the telephone to discuss the field findings. Based on the conversations completed, CEA submitted a total of six (6) soil samples for further laboratory analysis. Each of the eleven (11) boring locations were backfilled.

Chemical Analysis

Six (6) soil samples collected from the subject site on June 13, 2017 were submitted to a certified laboratory for chemical analysis. The samples identified as B-2, B-5, B-6, B-8, B-10 and B-11 were submitted for laboratory analysis of total petroleum hydrocarbons / diesel range organic (TPH/DRO, 8015C). Per a discussion with Dominion Aviation personnel, samples B-5, B-6, B-8 and B-10 were also submitted for laboratory analysis of total petroleum hydrocarbons / gasoline range organic (TPH/GRO, 8015C). The soil samples obtained were collected within laboratory supplied containers, placed in a cooler containing wet ice and transported under proper chain of custody to Air, Water & Soil Laboratories, Inc., located in Richmond, Virginia for laboratory analysis. The laboratory analysis results are included below within Table 1. The chain of custody and the certificate of analysis are included within Attachment B.

Table 1
Chesterfield Airport - Fuel Farm
7511 Airfield Drive

Soil Analysis Results

	Don Anarysis Acsults	
Soil Sample #	TPH/DRO (mg/kg)	TPH/GRO (mg/kg)
B-2	979	N/S
B-5	962	335
B-6	1,100	270
B-8	BDL	0.20
B-10	294	10
B-11	189	N/S

Notes: TPH/DRO – Total Petroleum Hydrocarbons/Diesel Range Organic (8015C)
TPH/GRO – Total Petroleum Hydrocarbons/Gasoline Range Organic (8015C)

mg/kg - milligram per kilogram (ppm)

N/S – Not Sampled

Summary

A release of Jet A aviation fuel on February 1, 2017 occurred at the fuel farm at the Chesterfield Airport. Dominion Aviation initiated response measures including collecting fuel with absorbents and hand excavating identified impacted shallow soil in the spill area. The removed soil and used absorbents were placed in 55-gallon drums and disposed off-site. Following the spill response, Chesterfield County requested that Dominion Aviation complete limited soil sampling in the excavated areas. The samples collected were to be field screened for organic vapor content with a PID and samples be submitted to a certified laboratory for chemical analysis.

The limited soil sampling services were completed by Commonwealth Environmental Associates, Inc. (CEA) on June 13, 2017. The sampling services were performed to collect shallow soil samples from the previously excavated areas in the proximity of the fuel farm tank pad for field organic vapor screening with a PID and sample collection for laboratory analysis. A total of eleven (11) shallow soil borings were completed at the subject site utilizing stainless steel hand auger equipment. A total of six (6) borings were advanced within the shallow trench line excavated along portions of the perimeter of the tank pad and five (5) additional borings were advanced in the shallow excavated areas located adjacent to the trenches. The borings were advanced to depths of 0.5 to 0.75 feet.

With the exception of the soil collected from the B-9 location, elevated PID organic vapor readings and an odor of fuel was noted in the samples collected and reviewed. With the exception of boring B-6, water collected within each of the borings completed within the trench excavations. Visual evidence of a thin layer of free product floating on the surface of the water collecting within the B-1 boring was noted and verified with an absorbent pad. Additionally, visual evidence of free product globules was viewed on the surface of the water within the B-3 location.

During the field services, the odor of the soil included predominately kerosene related fuel. However, a gasoline odor and "weathered" petroleum odors were noted within the samples collected on the southwestern side of the fuel farm pad. Soil analysis completed indicates residual (soil) phase contamination remains in the near surface at the subject site. The laboratory analysis completed indicate that both kerosene range and gasoline range organics are present in areas adjacent to the fuel pad. While the noted TPH concentrations are reported well below the VDEQ established soil saturation levels (8,300 mg/kg gas & 11,200 mg/kg kerosene), near surface residual phase contamination is present at the site. Visual evidence of the presence of limited free product also was observed within the B-1 and B-3 locations.

Future site services are reportedly to be completed at the subject site to replace the existing tank farm and fueling area. Based on the historical use of the fuel farm, the recent documented spill and the associated field and laboratory analysis, an expectation of encountering residual phase (soil), dissolved phase (water) and free phase (fuel) contamination in the area of the tank farm should be factored into the process for replacing the tank and fueling systems. The media (soil and liquid) generated will likely need to be properly manifested and properly disposed. Appropriate personal protective equipment (PPE) should also be utilized by personnel completing any excavation work in the proximity of the fuel farm.

In the interim, CEA would recommend that limited actions be undertaken to address the free product observed and if additional excavation is not going to be completed at this time, the trench lines be backfilled and graded to prevent storm water accumulation. While the estimated loss of fuel was below the VDEQ reporting volume, based on the viewed presence of free product during this limited investigation, CEA would recommend that a release report be forwarded to the VDEQ for their review and comment.

Commonwealth Environmental Associates, Inc. appreciates the opportunity to work with Dominion Aviation on this project. Please do not hesitate to contact our office with any questions concerning this project at (804) 275-9320.

Sincerely,

COMMONWEALTH ENVIRONMENTAL ASSOCIATES, INC.

By:

Andrew W. Mayes Project Manager By:

W. Fred Mayes President

W.Cyzzy

Attachments: A - Figures

B - Chain of Custody / Certificate of Analysis

C - Photograph Log

Limitations

This report has been prepared for the exclusive use of Dominion Aviation and/or their agents, for specific application to the subject site. This report should in no way be construed as our recommendation to either, purchase, sell, or develop the project site.

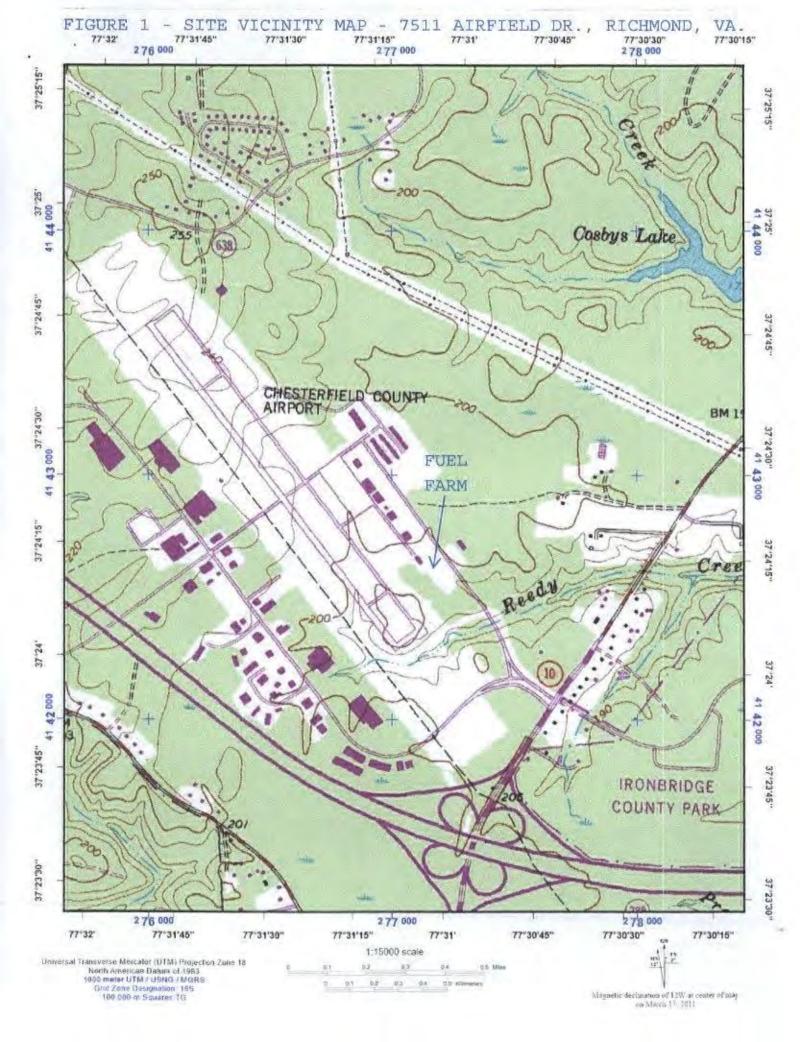
The report was prepared in accordance with generally accepted standards of practice for environmental services. No other warranty, either expressed or implied, is made. This report is not to be reproduced, either in whole or in part, without written consent from Commonwealth Environmental Associates, Inc.

Our conclusions and recommendations are based upon information provided to us by others, our site observations, and professional judgment. To the best of our knowledge, information provided by others is true and correct, unless otherwise noted; however, Commonwealth Environmental Associates, Inc. is not responsible for the accuracy of information provided by others.

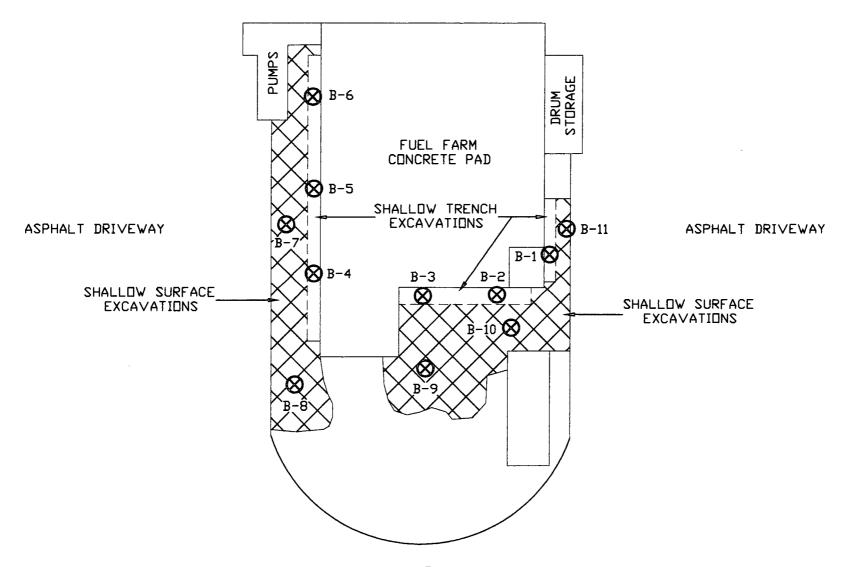
Our on-site observations pertain only to specific locations at specific times on specific dates. Our observations and conclusions do not reflect variations in subsurface conditions that may exist between sampling locations, in unexplored areas of the site, or at times other than those represented by our observations.

In providing this report, Commonwealth Environmental Associates, Inc. does not assume any responsibilities of the party, or parties that are deemed legally responsible for the subject site. It is not the responsibility of Commonwealth Environmental Associates, Inc., to report our findings to any federal, state or local agency, including such conditions that may present a potential danger to public health, safety or the environment. It is the responsibility of the client to notify the appropriate federal, state and/or local agencies, in a timely manner, of such findings as may be required by law.

ATTACHMENT A FIGURES



ASPHALT DRIVEWAY



GRAVEL DRIVEWAY

NOTES:
MAP IS NOT TO SCALE.
MAP IS BASED ON FIELD OBSERVATIONS.

LEGEND:

S□IL SAMPLE L□CATION



CHESTERFIELD AIRPORT - FUEL FARM 7511 AIRFIELD DRIVE - RICHMOND, VIRGINIA

GENERAL SITE MAP

PROJECT #: 7817 DATE: 06/19/17 DESIGN BY: AWM CLIENT: DOMINION AVIATION
APPROVED BY: WFM DWG #: 7817-1 DRAWN BY: AWM SCALE: NOT TO SCALE

COMMONWEALTH ENVIRONMENTAL ASSOCIATES, INC.

7411 IRON BRIDGE ROAD, RICHMOND, VIRGINIA 23237

FIGURE 2

ATTACHMENT B CHAIN OF CUSTODY / CERTIFICATE OF ANALYSIS



Certificate of Analysis

Final Report

Laboratory Order ID 17F0424

Client Name:

Commonwealth Environmental Associates

Date Received:

June 13, 2017 12:05

7411 Iron Bridge Rd.

Date Issued:

June 20, 2017 16:31

Richmond, VA 23237

Project Number:

7817N

Submitted To:

Andy Mayes

Purchase Order:

Client Site I.D.:

7511 Airfield Drive Fuel Farm

Enclosed are the results of analyses for samples received by the laboratory on 06/13/2017 12:05. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Ted Soyars

Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized representative of Air Water & Soil Laboratories, Inc.









Certificate of Analysis

Final Report

Client Name:

Commonwealth Environmental Associates

Date Issued:

6/20/2017 16:31

7411 Iron Bridge Rd.

Richmond VA, 23237

Submitted To:

Andy Mayes

Project Number:

7817N

Client Site I.D.:

7511 Airfield Drive Fuel Farm

Purchase Order:

ANALYTICAL REPORT FOR SAMPLES Laboratory Order ID 17F0424

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-2	17F0424-01	Soil	06/13/2017 10:40	06/13/2017 12:05
B-5	17F0424-02	Soil	06/13/2017 10:45	06/13/2017 12:05
B-6	17F0424-03	Soil	06/13/2017 10:50	06/13/2017 12:05
B-8	17F0424-04	Soil	06/13/2017 10:55	06/13/2017 12:05
B-10	17F0424-05	Soil	06/13/2017 11:00	06/13/2017 12:05
B-11	17F0424-06	Soil	06/13/2017 11:05	06/13/2017 12:05



Certificate of Analysis

Finai Report

Client Name:

Commonwealth Environmental Associates

Date Issued:

6/20/2017 16:31

7411 Iron Bridge Rd.

Richmond VA, 23237

Submitted To:

Andy Mayes

Project Number:

7817N

Client Site I.D.:

7511 Airfield Drive Fuel Farm

. . . .

Purchase Order:

Laboratory Order ID: 17F0424

Analytical Results

Sample I.D. B-2

Laboratory Sample ID:

				Laboratory Sample ID. 171 0424-01							
Grab Date/Time:		06/13/2017 1	0:40								
Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst		
Semivolatile Hydrocarbon	s by GC										
TPH-Semi-Volatiles (DRO)	01RE1	SW8015C	979 mg/kg		99.4	10	06/14/17 13:45	06/19/17 13:04	CVH		
Surr: Pentacosane (Surr)	01RE1	SW8015C	%	DS	40-160		06/14/17 13:45	06/19/17 13:04	CVH		



Certificate of Analysis

Final Report

Client Name:

Commonwealth Environmental Associates

Date Issued:

6/20/2017 16:31

7411 Iron Bridge Rd.

Richmond VA, 23237

Submitted To:

Andy Mayes

Project Number:

7817N

Client Site I.D.:

7511 Airfield Drive Fuel Farm

Purchase Order:

Laboratory Order ID: 17F0424

Analytical Results

Sample I.D. B-5

Laboratory Sample ID:

				Laboratory Sample ID. 171 0424-02						
Grab Date/Time:		06/13/2017 10	:45							
Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst	
Volatile Hydrocarbons by	GC									
TPH-Volatiles (GRO)	02RE1	SW8015C	335 mg/kg		4.95	50	06/14/17 21:05	06/14/17 21:05	LAO	
Semivolatile Hydrocarbon	s by GC									
TPH-Semi-Volatiles (DRO)	02RE1	SW8015C	962 mg/kg		99.8	10	06/14/17 13:45	06/19/17 13:31	CVH	
Surr: Pentacosane (Surr)	02RE1	SW8015C	%	DS	40-160		06/14/17 13:45	06/19/17 13:31	CVH	



Certificate of Analysis

Final Report

Client Name:

Commonwealth Environmental Associates

Date Issued:

6/20/2017 16:31

7411 Iron Bridge Rd.

Richmond VA, 23237

Submitted To:

Andy Mayes

Project Number:

7817N

Client Site I.D.:

Sample I.D. B-6

7511 Airfield Drive Fuel Farm

Purchase Order:

Laboratory Order iD: 17F0424

Analytical Results

Laboratory Sample ID:

Grab Date/Time:	06/13/2017 10:50		0:50						
Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Hydrocarbons by	GC								
TPH-Volatiles (GRO)	03RE1	SW8015C	270 mg/kg		4.91	50	06/14/17 21:50	06/14/17 21:50	LAO
Semivolatile Hydrocarbon	s by GC								
TPH-Semi-Volatiles (DRO)	03RE1	SW8015C	1100 mg/kg		95.4	10	06/14/17 13:45	06/19/17 13:58	CVH
Surr: Pentacosane (Surr)	03RE1	SW8015C	%	DS	40-160	,	06/14/17 13:45	06/19/17 13:58	CVH



Certificate of Analysis

Final Report

Client Name:

Commonwealth Environmental Associates

Date Issued:

6/20/2017 16:31

7411 Iron Bridge Rd.

Richmond VA, 23237

Submitted To:

Andy Mayes

Project Number:

7817N

Client Site I.D.:

7511 Airfield Drive Fuel Farm

Purchase Order:

Laboratory Order ID: 17F0424

Sample I.D. B-8

■ Analytical Results

Laboratory Sample ID:

•						•	•		
Grab Date/Time:		06/13/2017 10:55							
Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Volatile Hydrocarbons by	GC								
TPH-Volatiles (GRO)	04	SW8015C	0.20 mg/kg		0.10	1	06/14/17 12:46	06/14/17 12:46	LAO
Semivolatile Hydrocarbon	s by GC								
TPH-Semi-Volatiles (DRO)	04	SW8015C	<10.0 mg/kg		10.0	1	06/14/17 13:45	06/17/17 04:46	CVH
Surr: Pentacosane (Surr)	04	SW8015C	56.4 %		40-160		06/14/17 13:45	06/17/17 04:46	CVH



Certificate of Analysis

Final Report

Client Name:

Commonwealth Environmental Associates

Date Issued:

6/20/2017 16:31

7411 Iron Bridge Rd.

Richmond VA, 23237

Submitted To:

Andy Mayes

Samp ID

Project Number:

7817N

Laboratory Sample ID:

Client Site I.D.:

7511 Airfield Drive Fuel Farm

Method

Purchase Order:

Laboratory Order ID: 17F0424

■ Analytical Results

Sample I.D. B-10

Grab Date/Time:

TPH-Volatiles (GRO)

Parameter

06/13/2017 11:00

Reporting Sample Prep Analysis Limit Qual D.F. Analyst Date/Time Date/Time 06/14/17 13:08 LAO

Volatile Hydrocarbons by GC

05 SW8015C 10.3 mg/kg

Result

0.10

06/14/17 13:08

Semivolatile Hydrocarbons by GC TPH-Semi-Volatiles (DRO) SW8015C 294 mg/kg 10.0

17F0424-05

06/14/17 13:45 06/17/17 05:13 CVH



Certificate of Analysis

Final Report

Client Name:

Commonwealth Environmental Associates

Date Issued:

6/20/2017 16:31

7411 Iron Bridge Rd.

Richmond VA, 23237

Submitted To:

Andy Mayes

Project Number:

7817N

Client Site I.D.:

7511 Airfield Drive Fuel Farm

Purchase Order:

Laboratory Order ID: 17F0424

Analytical Results

Sample I.D. B-11

Laboratory Sample ID:

17F0424-06

Grab Date/Time:

06/13/2017 11:05

Grab Date/Time:		06/13/2017 11:0	15						
Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Hydrocarbon	s by GC								
TPH-Semi-Volatiles (DRO)	06	SW8015C	189 mg/kg		10.0	1	06/14/17 13:45	06/17/17 05:40	CVH
Surr: Pentacosane (Surr)	06	SW8015C	72.8 %		40-160)	06/14/17 13:45	06/17/17 05:40	CVH

•	Ana	al۷	rtical	l Su	mm	arv	1
---	-----	-----	--------	------	----	-----	---

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Hydrocarbor	ns by GC	Preparation Method:	SW5030B		
17F0424-02	5.04 g / 5.00 mL	SW8015C	BAF0403	SAF0405	AC70118
17F0424-02RE1	10.1 g / 10.0 mL	SW8015C	BAF0403	SAF0405	AC70118
17F0424-03	5.04 g / 5.00 mL	SW8015C	BAF0403	SAF0405	AC70118
17F0424-03RE1	10.2 g / 10.0 mL	SW8015C	BAF0403	SAF0405	AC70118
17F0424-04	5.13 g / 5.00 mL	SW8015C	BAF0403	SAF0405	AC70118
17F0424-05	5.18 g / 5.00 mL	SW8015C	BAF0403	SAF0405	AC70118
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Semivolatile Hydroc	arbons by GC	Preparation Method:	SW8100		
17F0424 - 01	50.3 g / 1.00 mL	SW8015C	BAF0405	SAF0484	AF70082
17F0424-01RE1	50.3 g / 1.00 mL	SW8015C	BAF0405	SAF0527	AF70082
17F0424-02	50.1 g / 1.00 mL	SW8015C	BAF0405	SAF0484	AF70082
17F0424-02RE1	50.1 g / 1.00 mL	SW8015C	BAF0405	SAF0527	AF70082
17F0424-03	52.4 g / 1.00 mL	SW8015C	BAF0405	SAF0484	AF70082
17F0424-03RE1	52.4 g / 1.00 mL	SW8015C	BAF0405	SAF0527	AF70082
17F0424-04	50.0 g / 1.00 mL	SW8015C	BAF0405	SAF0484	AF70082
17F0424-05	50.0 a / 1.00 ml	SW8015C	BAF0405	SAF0484	AF70082
	50.0 g / 1.00 mL	34400130	D/ 11 0 100		



Certificate of Analysis

Final Report

Client Name:

Commonwealth Environmental Associates

Date Issued:

6/20/2017 16:31

7411 Iron Bridge Rd.

Richmond VA, 23237

Submitted To:

Andy Mayes

Project Number:

7817N

Client Site I.D.:

7511 Airfield Drive Fuel Farm

Purchase Order:

Volatile Hydrocarbons by GC - Quality Control

Air Water and Soil Laboratories, Inc.

.		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Batch BAF0403 - SW5030B					· . ·					
Blank (BAF0403-BLK1)				Prepared	& Analyzed	1: 06/14/20)17			
TPH-Volatiles (GRO)	<0.10 mg/kg	0.10	mg/kg							
LCS (BAF0403-BS1)				Prepared	& Analyzed	1: 06/14/20	017			
TPH-Volatiles (GRO)	1.09 mg/kg	0.10	mg/kg	0.992	mg/kg	110	70-130			
Matrix Spike (BAF0403-MS1)	Sour	ce: 17F0424	I <u>-04</u>	Prepared	& Analyzed	1: 06/14/20)17			
TPH-Volatiles (GRO)	1.07 mg/kg	0.10	mg/kg	0.977 0).20 mg/kg	88.9	70-130			
Matrix Spike Dup (BAF0403-MSD1)	Sour	ce: 17F0424	1-04	Prepared	& Analyzed	1: 06/14/20)17			
TPH-Volatiles (GRO)	1.09 mg/kg	0.10	mg/kg	0.986 0).20 mg/kg	90.9	70-130	2.60	20	



Certificate of Analysis

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7411 Iron Bridge Rd.

Richmond VA, 23237

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Andy Mayes

Project Number:

7817N

Client Site I.D.:

7511 Airfield Drive Fuel Farm

Purchase Order:

Semivolatile Hydrocarbons by GC - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BAF0405 - SW8100								·		
Blank (BAF0405-BLK1)				Prepared	d: 06/14/201	7 Analyze	d: 06/17/2	017		
TPH-Semi-Volatiles (DRO)	<10.0 mg/kg	10.0	mg/kg							
Surr: Pentacosane (Surr)	3.23		mg/kg	5.08		63.7	40-160			
LCS (BAF0405-BS1)				Prepared	1: 06/14/201	7 Analyze	d: 06/19/2	017		
TPH-Semi-Volatiles (DRO)	58.9 mg/kg	10.0	mg/kg	100	mg/kg	58.9	40-160			
Surr: Pentacosane (Surr)	2.68		mg/kg	5.08	mg/kg	52.8	40-160			
Matrix Spike (BAF0405-MS1)	Sou	rce: 17F0424	1-04	Prepared	1: 06/14/201	7 Analyze	d: 06/17/2	017		
TPH-Semi-Volatiles (DRO)	77.1 mg/kg	10.0	mg/kg	100	<10.0 mg/kg	77.1	40-160			
Surr: Pentacosane (Surr)	3.09		mg/kg	5.08	mg/kg	60.7	40-160			



Certificate of Analysis

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Project Number:

7817N

Client Site I.D.:

7511 Airfield Drive Fuel Farm

Purchase Order:

Certified Analyses included in this Report

Analyte	Certifications

SW8015C in Solids

TPH-Semi-Volatiles (DRO)

TPH-Volatiles (GRO)

VELAP,NC,WVDEP VELAP,NC,WVDEP

Code	Description	Lab Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2017
NC	North Carolina DENR	495	12/31/2017
PADEP	NELAC-Pennsylvania	001	10/31/2017
VELAP	NELAC-Virginia Certificate #9067	460021	06/15/2018
WVDEP	West Virginia DEP	350	11/30/2017



Certificate of Analysis

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Client Site I.D.:

7511 Airfield Drive Fuel Farm

Purchase Order:

Summary of Data Qualifiers

DS

Surrogate concentration reflects a dilution factor.

RPD

Relative Percent Difference

Qual

-RE

Denotes sample was re-analyzed

D.F.

Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section.

TIC

Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library . A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated

and are calculated using an internal standard response factor of 1.

PCBs, Total

Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.

COMMONWEALTH ENVIRONMENTAL ASSOCIATES, INC.

CHAIN OF CUSTODY



7411 Iron Bridge Road, Richmond, VA 23237 (804) 275-9320 Fax: (804) 275-9322

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Certificate of Analysis

Final Report

Client Name:

Commonwealth Environmental Associates

Date Issued:

6/20/2017 16:31

7411 Iron Bridge Rd.

Richmond VA, 23237

Submitted To:

Andy Mayes

Project Number:

7817N

Client Site I.D.:

7511 Airfield Drive Fuel Farm

Purchase Order:

Sample Conditions Checklist

Samples Received at:	2.90°C
How were samples received?	Walk In
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C) or received on ice and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	No
Are all volatile organic and TOX containers free of headspace?	NA
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	NA
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.	Yes

As per Andy Mayes, via phone conversation: Address is 7511 Airfield Drive Fuel Farm. THM 13 June 2017/14.39

ATTACHMENT C PHOTOGRAPH LOG



06/13/17 - 7511 Airfield Drive - Fuel Farm - Boring B-1 (by fence) and B-11 on the northeast side of the tank farm.



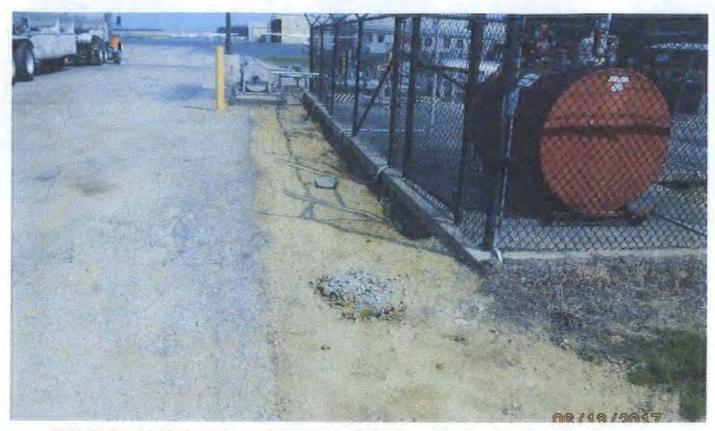
View of boring B-1 with absorbent collecting thin layer of free product observed on the surface of water within the boring.



06/13/17 - 7511 Airfield Drive - Fuel Farm - View of borings B-2 and B-3 (by fence) and B-10 on the southeast side of the tank farm.



Additional view of the shallow excavation on the southeast side of the tank farm. Boring B-9 is viewed generally in the center of the picture.



06/13/17 - 7511 Airfield Drive - Fuel Farm - View of the boring B-8 location and view along the southwest side of the tank farm.



View of borings B-5 and B-6 (by fence) and B-7 on the southwest side of the tank farm.



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
PIEDMONT REGIONAL OFFICE

4949-A Cox Road, Glen Allen, Virginia 23060 (804) 527-5020 Fax (804) 527-5106 www.deq.virginia.gov David K. Paylor Director

Jeffrey Steers Regional Director

October 10, 2017

Dominion Aviation Attn: Jeremy Wilkinson 7511 Airfield Drive Richmond, VA 23237

Molly Joseph Ward Secretary of Natural Resources

RE: Chesterfield County Airport, 7511 Airfield Dr., Richmond, VA23237

DEO tracking number PC# 2018-4099

Dear Mr. Wilkinson:

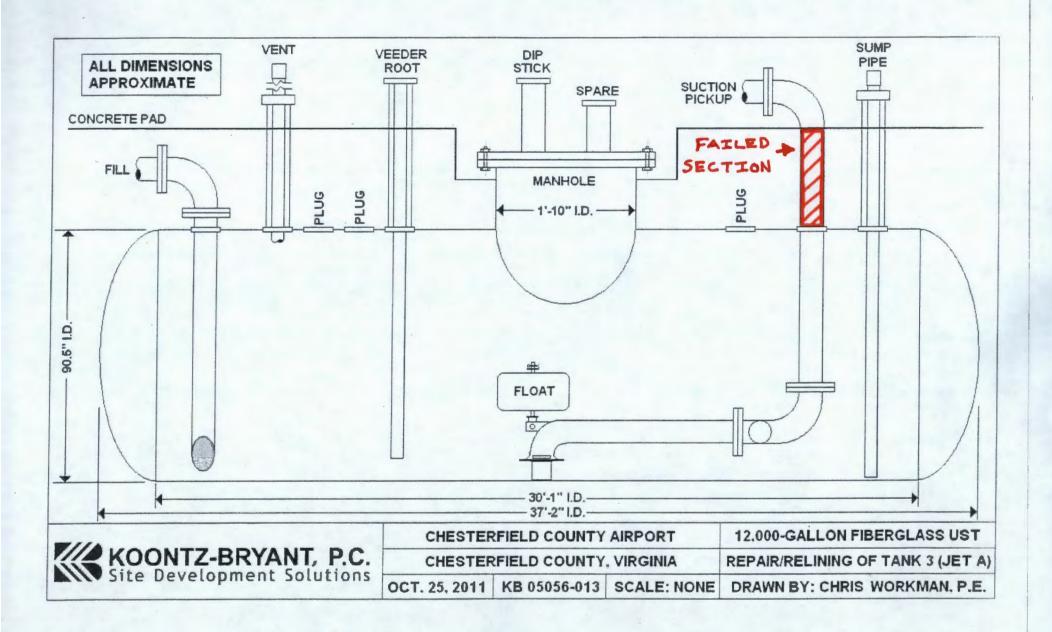
This correspondence is in regard to the pollution complaint reported to the Department of Environmental Quality (DEQ), Piedmont Regional Office on September 28, 2017.

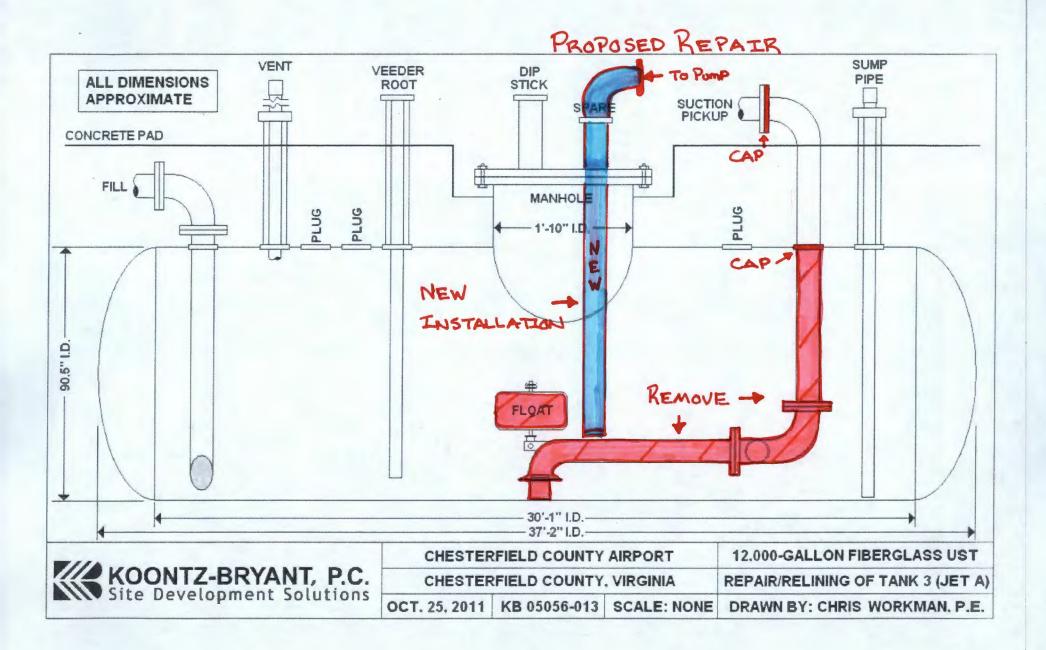
Based on the information, contamination levels do not warrant further remediation and corrective action is not required at this time. Be advised that should future environmental problems develop which DEQ concludes are related to this site, additional information and/or corrective action may be required in accordance with the applicable State and Federal regulations.

In addition, if a tank or tanks remain on the property, the tank owner remains responsible for ensuring that the petroleum release does not continue. If petroleum remains in the tank and the tank continues to leak, the release to the environment could intensify over time. The tank owner should empty the contents of this tank and contact the local building or fire marshal for proper tank closure procedures. Owners who knowingly continue to operate a leaking tank may not be eligible for reimbursement from the Virginia Petroleum Storage Tank Fund.

The DEQ thanks you for the information you submitted. If you require additional information, please contact this office at (804) 527-5020.

Regional Remediation Manager







Richmond VA 23237

Phone: (804) 271-4456 FAX: 1-888-201-7900

PRESSURE CALCULATION & WATER SENSOR CALIBRATION TANK TEST FINAL REPORT SUMMARY



MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

EZY 3 LOCATOR PLUS

Testing Firm BesTesT, L	LLC		Date:	12/1	1/2017					
Address 3611 Thursto	n Rd		Site: Chesterfield County Airport							
Richmond, V	A 23237		7511 Airfield Drive							
Telephone #_ 804-271-4456	<u> </u>			Richmond,	VA 23237					
Tank#	1	2	3	4	5	6				
Product	Jet fuel									
Tank volume	12000									
Tank diameter	90"									
Product volume in inches	0"									
Water volume in inches	0"									
Vacuum Pressure (psi)	0.5									
Height of Groundwater: from bottom of tank										
Determined by:	Ezstick									
Where:	tank field									
SUMMARY of FINDINGS*	Pass									
TIGHT TANK ¹	YES									
ULLAGE LEAK ²	n/a									
WET PORTION LEAK ³	n/a									
Water intrusion (wet portion)⁴	n/a									
NOTES:										

* THE ACOUSTIC CHARACTERISTICS REVEAL:

TIGHT TANK - THIS UNDERGROUND STORAGE TANK PASSES THE CRITERIA SET FORTH BY THE U.S. EPA.

²ULLAGE (DRY) PORTION LEAK - THIS UNDERGROUND TANK FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.

³BELOW PRODUCT LEVEL (WET) PORTION LEAK - THIS UNDERGROUND STORAGE TANK FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.

⁴ Water intrusion (wet portion) – water sensor indicates water entering the tank below the product level during the test

Operator Information						
Name	Adam N. Murray	Certification #	53-2888			
Signed	ANM	Expiration Date:	09/17/2019			

APPENDIX D

Title Information

#10 1004-MSE '312

THIS DEED, made this 13th day of January, 1971, by and between CHARLOTTE O. WINGFIELD (also known as C. O. Wingfield) and WILLIAM L. WINGFIELD, her husband, and ELIZABETH E. WINGFIELD (also known as E. E. Wingfield), unmarried, parties of the first part, and COUNTY OF CHESTERFIELD, VIRGINIA, party of the second part;

WITNESSETH: That for and in consideration of the sum of TEN DOLLARS (\$10.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the said parties of the first part do hereby grant and convey with General Warranty of Title unto the said party of the second part, a one-half undivided to test in and to-the one-half undivided interest in the following described real estate, owned by the parties of the first part, as of March 10, 1970, to-wit:

All that certain tract or parcel of land, lying and being in Dale Magisterial District, Chester-field County, Virginia, containing 211.10 acres, all as shown on plat made by W. W. LaPrade & Bros., dated December 22, 1943, entitled "Map of 211.10 acres of land, situated in Dale District, Chesterfield Co., Va., and known as the Fuqua Tract. Burveyed for Earle Spencer," a copy of which is attached to and made a part of a certain deed from the parties of the first part hereia to the County of Chesterfield, Virginia, dated March 11, 1970, and recorded March 20, 1970, in the Clerk's Office of the Circuit Court of Chesterfield County, Virginia, in Deed Book 983, page 437, to which plat reference is hereby made for a more particular description.

Together with a strip of land 15 feet in width conveyed to EarleSpencer and Christopher C. Phillips by Charles Smerda and wife by deed dated November 16, 1943, in Deed Book 280, page 300, and shown on plat attached thereto, to which plat reference is made for a more particular description and which strip of land was subsequently acquired by Charlotte O. Wingfield and Elizabeth E. Wingfield.

BEING the same property conveyed to C. N. Valentine by field from Earle Spencer and Mildred P. Spencer, his wife; and Christopher C. Phillips and Annie A. Phillips, his wife, dated February 25, 1944, and recorded March 14, 1944, in Deed Book 281, page 561 in the Clerk's Office of the Circuit Court of Chesterfield County, Virginia. The said C. N. Valentine and Sibil Valentine, his wife, by deed dated June 10, 1959, and recorded June 11, 1959, in Deed Book 388, page 396 of the aforesaid Clerk's Office, conveyed an undivided one-half interest in the above described property to C. O. Wingfield. The said C. O. Wingfield and William L. Wingfield, her husband, by deed dated June 10, 1959, and recorded April 9, 1969, in the aforesaid Clerk's

Office in Doed Book 952, page 200, conveyed a one half interest in their one-half interest to E. E. Wingfield.

This conveyance is made subject, however, to the restrictions, conditions, casements and covenants of record, if any, to the extent that same may lawfully affect the above described real estate.

Subject to the foregoing, the said parties of the first part covenant that they have the right to convey the said land to the party of the second part; that they have done no act to encumber the said land; that the said party of the second part shall have quiet possession of the said land, free from all encumbrances, and that the said parties of the first part will execute such further assurances of the said land as may be requisite.

This conveyance to the County of Chesterfield, Virginia, is made by the parties of the first part pursuant to Chapter 795 of the Acts of Assembly of 1968 and in compliance with Section 15.1-286 of the Code of Virginia (1950), as amended, and is approved by the Commonwellth's Attorney as to form, and accepted on behalf of the Board of Supervisors by resolution of the Board, duly adopted, as cortified by its Clerk, authorized to so act, as evidenced by their signatures to this deed.

WITNESS the following signatures and seals:

Charlotte O. Wingfield

Charlotte O. Wingfield

William L. Wingfield

Grankelt

Elizabeth E. Wingfield

(SBAL)

506-1004 (ACL 314:

STATE OF VIRGINIA

County of Manener . , to-with

I. Edith A. Licentair a Notary Public in and for the County and State aforesaid, do hereby certify that CHARLOTTE O. WINGFIELD and WILLIAM L. WINGFIELD, her hysband, whose names are signed to the foregoing writing bearing date on January 13, 1971, have each acknowledged the same before me in my jurisdiction aforesaid.

Given under my hand this to day of Ormany, 1971.

-My commission expires: (/35/2/

Colite Notary Public

STATE OF VIRGINIA

The of mount, to-wit:

and for the ____ and State aforesaid, do hereby certify that ELIZABETH E. WINGFIELD, whose name is signed to the foregoing writing bearing date on January 13, 1971, has acknowledged the same before me, in my jurisdiction aforesaid.

My commission expires: 5 v 5

Notary Public

Shesterfield County, Virginia, did on the 27 day of Jacoby, 1971, accept this conveyance by resolution duly adopted.

Executive Secretary

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a 1004 at 315

VIRGINIA:

IN THE CIRCUIT COURT OF CHESTERFIELD COUNTY

IN RE: Purchase by the County of Chesterfield, Virginia, of a one-fourth undivided interest in a parcel of land in Dale District, Chesterfield County, Virginia, containing 211.26 acres, owned by Elizabeth E. Wingfield and Charlotte O. Wingfield, for use in connection with the proposed Chesterfield County Airport facility.

REPORT

TO THE HONORABLE JUDGES OF THE AFORESAID COURT:

Pursuant to the Order entered by this Court, I was directed to examine title to the one-fourth undivided interest in 211.26 acres, and a 15-foot strip of land, said interest owned by Elizabeth E. Wingfield and Charlotte O. Wingfield in Pale District, being more particularly described in the deed to which this report is annexed, and therefore I wish to report that I have examined the records in the Clerk's Office of the Circuit Court of this County and do report that title to the one-half undivided interest in this property is now vested in Elizabeth E. Wingfield and Charlotte O. Wingfield.

In my opinion, title to the one-fourth undivided interest in this property as free and clear of all valid objectims, except

- "L. Taxes for 1970 and subsequent years."
- Valentine, his wife, to Commonwealth Natural Gas Corp., dated July 5, 1956, and recorded July 26, 1956, in the aforesaid Clerk's Office in Deed Book 505, page 149.

I have examined the deed conveying this property to the County of Chesterfield, Virginia, embracing the land described therein and when the same has been recorded, the County of Chesterfield will acquire good title as to one-half of the one-half undivided interest of Elizabeth E. Wingfield and Charlotte. O. Wingfield, subject to the objections noted above.

and 1004 ME 316 Your title examiner wishes further to report that the County of Chesterfield has a valid contract to acquire the remainder of said undivided one-half interest on or before. January 30, 1971. with the certification of the Circuit Court of Chesterfield County, the 19.71, this Dued was presented and with the certification of the Circuit Court of Chesterfield County, the 19.71, this Dued was presented and with the certification of the Circuit Court of the Circuit Court of the Circuit Court of the Circuit Court of the Circuit Court of the Circuit Court of the Circuit Court of the Circuit Court of the Circuit Court of the Circuit Court of the Circuit Court of the Circuit Court of the Circuit Court of Chesterfield County, the 19.71 this Dued was presented and with the certification of the Circuit Court of Chesterfield County, the 19.71 this Dued was presented and with the certification of the Circuit Court of Chesterfield County, the 19.71 this Dued was presented and with the certification of the Circuit Court of Chesterfield County, the 19.71 this Dued was presented and with the certification of the Circuit Court The tax Impeged by Soundings-54.1 in the amount of 5.3.

, has been paid.

APPENDIX E

User Questionnaire

Landowner Questionnaire

User Provided Information

In order to qualify for one of the *Landowner Liability Protections identified in the Phase I ESA Standard 1527-13*, the *user* must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete for the Phase I ESA.

Please fill out the questionnaire below and attach any pertinent information.

YES	NO	QUESTION	IF "YES" PLEASE DESCRIBE
		Are you aware of any environmental cleanup liens against the property that are recognized under law (federal, state, and/or local)?	
		Are you aware of any activity or use limitations that are in place at the site and/or have been recorded in a registry under law?	
		As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties and its respective use?	
		Does the proposed purchase price paid for the property reasonably reflect the fair market value? If you conclude that there is a difference, have you considered the reason for the lower purchase including possible contamination?	Lease not purchase
		Do you know the past uses of the property?	
		Do you know of specific chemicals that are currently or once were present on the property?	POL products, small amounts of paint for marking aircraft
		Do you know of any spills or other chemical releases that have been taken place at the property?	
		Do you know of any environmental cleanups that have taken place at the property?	
		As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination on the property?	

YES	NO	QUESTION	IF "YES" PLEASE DESCRIBE
<u> </u>		Are there helpful documents available that could inform us about past and current uses on the property? (Such information could be MSDS, environmental permits and reports, tank registrations, safety plans, etc.) <i>If "yes" is there the possibility of obtaining a copy?</i>	Unit currently stationed at the Property would maintain MSDS sheets for any chemicals stored
		Is there a legal description and recorded plat available? If "yes" please provide Deed Book/Plat Book and Page Number if possible.	Information may be obtained by contacting the VaARNG Real Property Manager
		Do you have the current property owner's contact information? <i>If "yes" please provide.</i>	Information may be obtained by contacting the VaARNG Real Property Manager
		How is the property currently zoned? Commercial, residential, industrial, mixed use? Are there any zoning restrictions the limit the activity use of the property? (i.e. Chesapeake Bay Preservation Area, Groundwater Protection Area, 50 or 100 year Flood zone).	Information may be obtained by contacting the VaARNG Real Property Manager
Name:Pam Coleman Title/Position:Environmental Program Mananger			
Organization:Dept. of Military Affairs Date:			_7/13/18

Address:	7511	Airport	Drive
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<u>#</u>	<u>Question</u>	<u>Owner</u>
1a	Is the property used for an industrial use?	Yes
1b	Is any adjoining property used for an industrial use?	Yes
2a	Did you observe any evidence or do you have any prior knowledge that the property has been used for an industrial use in the past?	Yes
2b	Did you observe any evidence or do you have any prior knowledge that the adjoining property has been used for an industrial use in the past?	Yes
3a	Is the property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing or recycling facility (if applicable, identify which)?	Yes (aviation fuel)
3b	Is any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing or recycling facility (if applicable, identify which)?	No
4a	Did you observe evidence or do you have any prior knowledge that the property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing or recycling facility (if applicable, identify which)?	Yes (aviation fuel)
4b	Did you observe evidence or do you have any prior knowledge that the adjoining property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing or recycling facility (if applicable, identify which)?	No
5a	Are there currently any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers >5 gallons (19 L) in volume or 50 gallons (190 L) in the aggregate, stored or used at the property or at the facility?	No

Address:	7511 Airport D	Orive
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5b	Did you observe evidence or do you have any prior knowledge that there have been any previously damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers >5 gallons (19 L) in volume or 50 gallons (190 L) in the aggregate, stored or used at the property or at the facility?	No
6a	Are there currently any industrial drums (typically 55 gallons (208 L)) or sacks of chemicals located on the property or at the facility?	Yes
6b	Did you observe evidence or do you have any prior knowledge that there have been any industrial drums (typically 55 gallons (208 L)) or sacks of chemicals located on the property or at the facility?	Yes
7a	Did you observe evidence or do you have any prior knowledge that fill dirt has been brought onto the property that originated from a contaminated site?	No
7b	Did you observe evidence or do you have any prior knowledge that fill dirt has been brought onto the property that is of an unknown origin?	No
8a	Are there currently any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?	Yes
8b	Did you observe evidence or do you have any prior knowledge that there have been previously, any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?	No
9a	Is there currently any stained soil on the property?	No
9b	Did you observe evidence or do you have any prior knowledge that there has been previously, any stained soil on the property?	No
10a	Are there currently any registered or unregistered storage tanks (above or underground) located on the property?	Yes
10b	Did you observe evidence or do you have any prior knowledge that there have been previously, any registered or unregistered storage tanks (above or underground) located on the property?	Yes
11a	Are there currently any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?	No

Site Visit Date: 06/25/2018

Address: 7511 Airport Drive

11b	Did you observe evidence or do you have any prior knowledge that there have been previously any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?	No
12a	Is there currently any evidence of leaks, spills, or staining by substances other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the property?	No
12b	Did you observe evidence or do you have any prior knowledge that there have been previously any leaks, spills, or staining by substances other than water, or foul odors, associated with any flooring drains, walls, ceilings or exposed grounds on the property?	No
13a	If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that contaminants have been identified in the well or system that exceed guidelines applicable to the water system?	No
13b	If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that the well has been designated as contaminated by any government environmental/health agency?	No
14	Does the owner or occupant of the property have any knowledge of environmental liens or governmental notification relating to past or recurrent violations of environmental laws with respect to the <i>property</i> or any facility located on the property?	No
15a	Has the owner or occupant of the property been informed of the past existence of hazardous substances or petroleum products with respect to the property or any facility located on the property?	Yes
15b	Has the owner or occupant of the property been informed of the current existence of hazardous substances or petroleum products with respect to the property or any facility located on the property?	Yes
15c	Has the owner or occupant of the property been informed of the past existence of environmental violations with respect to the property or any facility located on the property?	No
15d	Has the owner or occupant of the property been informed of the current existence of environmental violations with respect to the property or any facility located on the	No

Address:	7511	Airport	Drive
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	property?	
16	Does the owner or occupant of the property have any knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommend further assessment of the property?	No
17	Does the owner or occupant of the property know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum products involving the property by any owner or occupant of the property?	No
18a	Does the property discharge wastewater (not including sanitary waste or storm water) onto or adjacent to the property and/or into a storm water system?	Yes
18b	Does the property discharge wastewater (not including sanitary waste or storm water) onto or adjacent to the property and/or into a sanitary sewer system?	No
19	Did you observe evidence or do you have any prior knowledge that any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials been dumped above grade, buried and/or burned on the property?	No
20	Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs?	No