

***APPENDIX F***

***PUBLIC INFORMATION ACT CORRESPONDENCE  
WITH STATE AND LOCAL AGENCIES***



CHESAPEAKE

• ENVIRONMENTAL MANAGEMENT, INC. •

*Applying Practical Science to  
Improve Communities*

May 10, 2016

Ms. Amanda Degen  
PIA Coordinator  
Maryland Department of the Environment  
1800 Washington Blvd  
Baltimore, MD 21230

**RE: Request for Information regarding the Montgomery County Airpark, Gaithersburg, Maryland**

Dear Ms. Degen:

We are currently contracted by the Montgomery County Airpark to review any available data regarding pollution/contamination incidents that may have occurred at three properties in the vicinity of the existing Montgomery County Airpark, located in Gaithersburg, Maryland (the "Study Area").

Under the Public Information Act, I would like to request any regulatory records published for the Subject Site in order to search for information you may have regarding air, land, or water pollution incidents, including:

- Chemical or Petroleum releases
- Underground Storage Tanks (USTs)
- Aboveground Storage Tanks (ASTs)
- RCRA Generators
- Asbestos or lead paint information
- CERCLA or Superfund haz-waste sites
- Hazardous or Toxic materials/waste spills
- Clean Air Act, RCRA, TSCA, or SARA violations

According to the Maryland Department of Assessments and Taxation (SDAT), the three target properties are described as follows:

- Target Property #1 – 18800 Woodfield Road, Gaithersburg, MD 20879 (Tax Acct ID: 01-02253403)
- Target Property #2 – 18810 Woodfield Road, Gaithersburg, MD 20879 (Tax Acct ID: 01-02253391)
- Target Property #3 – 18820 Woodfield Road, Gaithersburg, MD 20879 (No SDAT Information available)

Thank you very much for your time and consideration. I would appreciate your permission to review this information as soon as possible. If the costs related to this file review will exceed \$25, please contact me. If you have any other questions, please do not hesitate to contact me at our offices at (410)-893-9016, or you can email me at [kdimartino@cemscience.com](mailto:kdimartino@cemscience.com).

Best Regards,

Kevin DiMartino  
Chesapeake Environmental Management, Inc.  
Director



# Maryland

## Department of the Environment

Larry Hogan  
Governor

Boyd Rutherford  
Lieutenant Governor

Ben Grumbles  
Secretary

1800 Washington Boulevard | Baltimore, MD 21230 | 1-800-633-6101 | 410-537-3000 | TTY Users 1-800-735-2258 | [www.mde.maryland.gov](http://www.mde.maryland.gov)

May 16, 2016

Mr. Kevin DiMartino  
Chesapeake Environmental Mgmt  
42 North Main Street  
Bel Air MD 21014

RE: Tracking Number: 2016-66067  
Request Received May 16, 2016

18800, 18810, 18820 WOODFIELD ROAD

Dear Mr. DiMartino:

The Maryland Department of the Environment (MDE) received your recent request for information under the Public Information Act (PIA).

Your request has been assigned the tracking number listed above. Please use this tracking number in all communications referring to this request. Your request has been reviewed and distributed to all appropriate MDE programs.

In reviewing your request, we anticipate that it will take 30 calendar days or less to identify, locate, review, and produce the record(s) you seek. MDE receives numerous PIA requests daily and this time is necessary to sufficiently search for and collect the record(s) responsive to your request from appropriate MDE administrations and applicable field offices. MDE shall conduct its search and prepare your request with all practicable speed.

There may be charges associated with the search for, preparation of (including staff and any attorney review), and reproduction (including any postage) of the record(s) responsive to your request. The charges reflect the actual costs incurred by MDE to process your PIA request. There is no charge for the first two hours needed to search for and prepare a record for inspection. An estimated range of fees that may be charged by MDE to comply with this request is between \$0 and \$350. This range of fees represents our best estimate of costs at this time.

We will notify you in writing of any responsive record(s) available for inspection and/or exempt from disclosure pursuant to the PIA and any specific charges for processing your request.

When requesting information regarding this request, please cite the tracking number referenced above. If you have any questions, please call me at (410) 537-4120.

Sincerely,

A handwritten signature in blue ink, appearing to read "Amanda Degen".

Amanda Degen  
PIA Coordinator  
Other MDE Administrations



# Maryland

## Department of the Environment

Larry Hogan  
Governor

Boyd Rutherford  
Lieutenant Governor

Ben Crumbles  
Secretary

1800 Washington Boulevard | Baltimore, MD 21230 | 1-800-633-6101 | 410-537-3000 | TTY Users 1-800-735-2258 | [www.mde.maryland.gov](http://www.mde.maryland.gov)

June 16, 2016

Mr. Kevin DiMartino  
Chesapeake Environmental Mgmt  
42 North Main Street  
Bel Air MD 21014

RE: Tracking Number: 2016-66067  
Request Received May 16, 2016

18800, 18810, 18820 WOODFIELD ROAD

Dear Mr. DiMartino:

The Maryland Department of the Environment (MDE) received your recent request for information under the Public Information Act (PIA).

After conducting a thorough search of our files, the MDE has no records responsive to your request. There were no charges incurred as a result of this search.

When requesting information regarding this request, please cite the tracking number referenced above. If you have any questions, please call me at (410) 537-4120.

Sincerely,

Amanda Degen  
PIA Coordinator  
Other MDE Administrations

cc: Ana Perez Reyes, Air & Radiation Management Administration  
Wendy Donaldson, Science Services Administration  
Maria Stephens, Land Management Administration  
Wendy Donaldson, Water Management Administration

**APPENDIX G**

*FREEDOM OF INFORMATION ACT CORRESPONDENCE  
WITH FEDERAL AGENCIES*



CHESAPEAKE

• ENVIRONMENTAL MANAGEMENT, INC. •

*Applying Practical Science to  
Improve Communities*

May 10, 2016

Mr. Richard Van Holt  
Freedom of Information Officer  
U.S. EPA Region 3  
1650 Arch Street (3CG10)  
Philadelphia, PA 19103-2029

**RE: Request for Information regarding the Montgomery County Airpark, Gaithersburg, Maryland**

Dear Mr. Van Holt:

We are currently contracted by the Montgomery County Airpark to review any available data regarding pollution/contamination incidents that may have occurred at three properties in the vicinity of the existing Montgomery County Airpark, located in Gaithersburg, Maryland (the "Study Area").

Under the Freedom of Information Act, I would like to request any regulatory records published for the properties located within the Study Area in order to search for any information you may have regarding air, land, or water pollution incidents, including:

- Chemical or Petroleum releases
- Underground Storage Tanks (USTs)
- Aboveground Storage Tanks (ASTs)
- RCRA Generators
- Asbestos or lead paint information
- CERCLA or Superfund haz-waste sites
- Hazardous or Toxic materials/waste spills
- Clean Air Act, RCRA, TSCA, or SARA violations

According to the Maryland Department of Assessments and Taxation (SDAT), the three target properties are described as follows:

- Target Property #1 – 18800 Woodfield Road, Gaithersburg, MD 20879 (Tax Acct ID: 01-02253403)
- Target Property #2 – 18810 Woodfield Road, Gaithersburg, MD 20879 (Tax Acct ID: 01-02253391)
- Target Property #3 – 18820 Woodfield Road, Gaithersburg, MD 20879 (No SDAT Information available)

Thank you very much for your time and consideration. I would appreciate your permission to review this information as soon as possible. If the costs related to this file review will exceed \$25, please contact me. If you have any other questions, please do not hesitate to contact me at our offices at (410)-893-9016, or you can email me at [kdimartino@cemscience.com](mailto:kdimartino@cemscience.com).

Best Regards,

Kevin DiMartino  
Chesapeake Environmental Management, Inc.  
Director



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
1650 Arch Street  
Philadelphia, Pennsylvania 19103-2029

June 1, 2016

Kevin DiMartino  
Chesapeake Environmental Mgmt.  
42 North Main Street  
Bel Air, Maryland 21014

RE: Freedom of Information Act Request: EPA-R3-2016-006553

Dear Mr. DiMartino:

This is in response to your Freedom of Information Act (FOIA) request referenced above regarding multiple properties on Woodfield Road in Gaithersburg, Maryland. We have searched our databases which could contain this type of information that are not publicly available and found no records responsive to your request.

To complete your search for information regarding this specific property, you may access the My Property portal at <http://www3.epa.gov/enviro/html/fii/myproperty/index.html>. This database provides a single, printable report based on individual address searches from numerous EPA databases.

You may appeal this response to the National Freedom of Information Officer by letter or by email at [foia\\_hq@epa.gov](mailto:foia_hq@epa.gov). Letters mailed through the United States Postal Service should be addressed to National Freedom of Information Officer, U.S. EPA, Records, FOIA and Privacy Branch (2822T), 1200 Pennsylvania Avenue, NW, Washington, D.C. 20460. If you are submitting your appeal via hand delivery, courier service or overnight delivery, you must address your correspondence to National Freedom of Information Officer, U.S. EPA, Records, FOIA and Privacy Branch (2822T), 1301 Constitution Avenue, Room 6416J, NW, Washington, D.C. 20004. Your appeal must be made in writing, and it must be submitted no later than 30 calendar days from the date of this letter. The Agency will not consider appeals received after the 30 calendar day limit. The appeal should include the request number listed above. For quickest possible handling, the appeal letter and its envelope should be marked "Freedom of Information Act Appeal."

If you have any questions, please contact me at 215-814-2050 or [R3FOIA@epa.gov](mailto:R3FOIA@epa.gov).

Sincerely,

*Rita Tate*

Rita Tate  
Freedom of Information Officer



# MyPropertyInfo

•

## Property Search Results

A search of the databases did not locate any environmental records using the search criteria provided below.

### Search Criteria

Street Number: 18800

Street Name: WOODFIELD

City Name: GAITHERSBURG

State: MD

Zip Code: 20879

Query executed at: Fri 24-Jun-2016 12:23:16

### [Databases Searched](#)

Please contact appropriate state agency(s) who may have additional information.

### Disclaimer


This summary report is provided solely for informational purposes. It does not provide legal advice, have legally binding effect, or expressly or implicitly create, expand, or limit any legal rights, obligations, responsibilities, expectations, or benefits in regard to any person. EPA maintains the application to enhance public access to environmental information. This service has continual data updates, and we will correct errors brought to our attention, as appropriate.

### Area Navigation



***APPENDIX H***

***HISTORICAL DATA – TOPOGRAPHIC MAPS***



Montgomery County Airpark  
18800 Woodfield Road  
Gaithersburg, MD 20879

Inquiry Number: 4616084.4

May 11, 2016

# EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Historical Topo Map Report

05/11/16

**Site Name:**

Montgomery County Airpark  
18800 Woodfield Road  
Gaithersburg, MD 20879  
EDR Inquiry # 4616084.4

**Client Name:**

Chesapeake Environmental  
42 North Main Street  
Bel Air, MD 21014  
Contact: Kevin Dimartino



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Chesapeake Environmental were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

**Search Results:****Coordinates:**

<b>P.O.#</b>	C2015036.002.0000	<b>Latitude:</b>	39.165226 39° 9' 55" North
<b>Project:</b>	Montgomery County Airpark EI	<b>Longitude:</b>	-77.158897 -77° 9' 32" West
		<b>UTM Zone:</b>	Zone 18 North
		<b>UTM X Meters:</b>	313483.86
		<b>UTM Y Meters:</b>	4337332.00
		<b>Elevation:</b>	542.86' above sea level

**Maps Provided:**

2014	1894
1979	1893
1971	
1950	
1945	
1944	
1923	
1908	

**Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2016 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

## **Topo Sheet Key**

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **2014 Source Sheets**



Gaithersburg  
2014  
7.5-minute, 24000

### **1979 Source Sheets**



Gaithersburg  
1979  
7.5-minute, 24000  
Photo Revised 1979  
Aerial Photo Revised 1977

### **1971 Source Sheets**



Gaithersburg  
1971  
7.5-minute, 24000  
Photo Revised 1971  
Aerial Photo Revised 1971

### **1950 Source Sheets**



Gaithersburg  
1950  
7.5-minute, 24000  
Aerial Photo Revised 1943

## **Topo Sheet Key**

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **1945 Source Sheets**



Gaithersburg  
1945  
7.5-minute, 24000  
Aerial Photo Revised 1943

### **1944 Source Sheets**



Rockville  
1944  
15-minute, 62500  
Aerial Photo Revised 1943

### **1923 Source Sheets**



Rockville  
1923  
15-minute, 62500

### **1908 Source Sheets**



Rockville  
1908  
15-minute, 62500

## **Topo Sheet Key**

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **1894 Source Sheets**

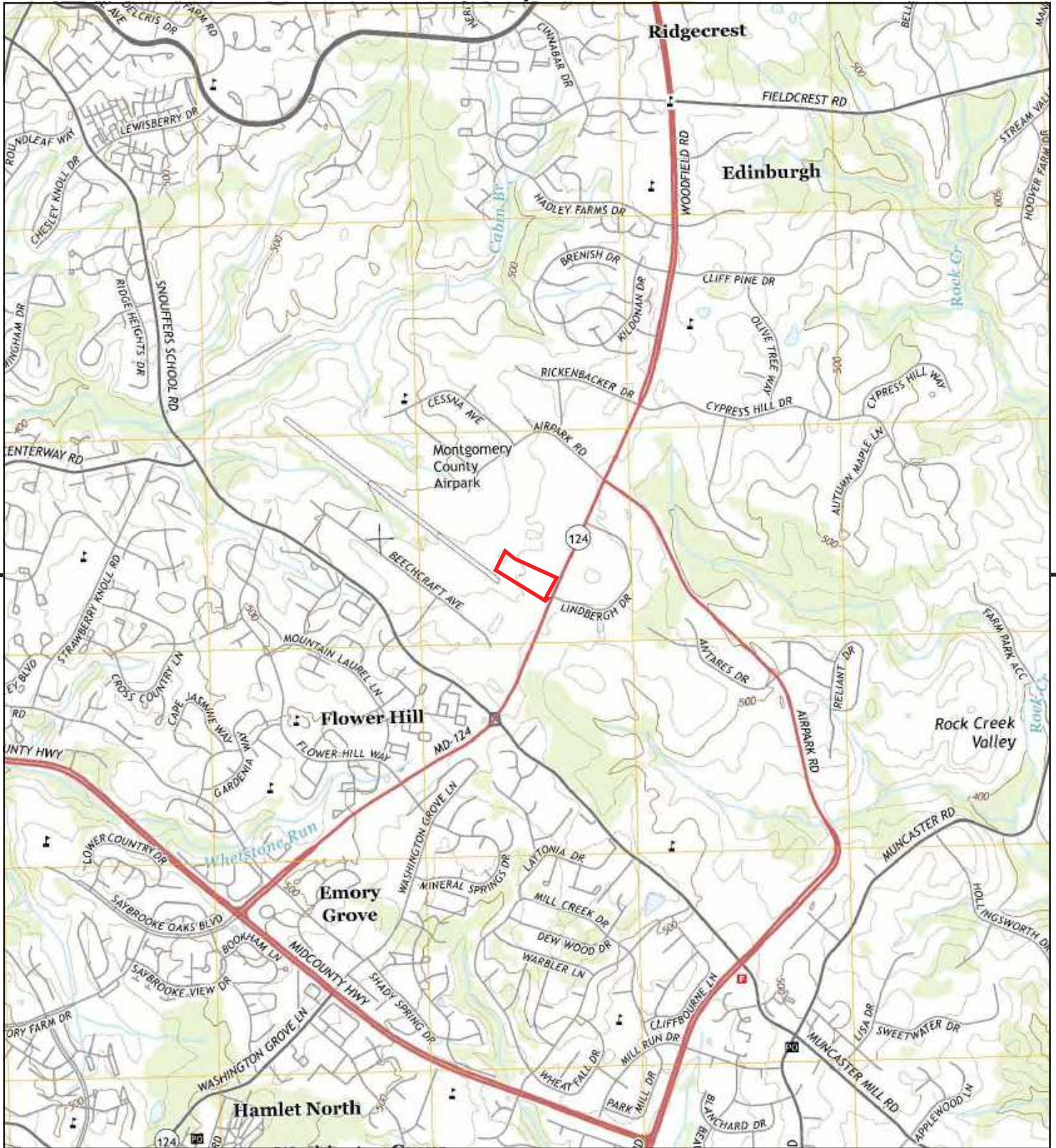


Frederick  
1894  
30-minute, 125000

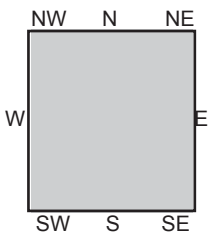
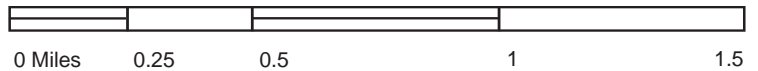
### **1893 Source Sheets**



Frederick  
1893  
30-minute, 125000



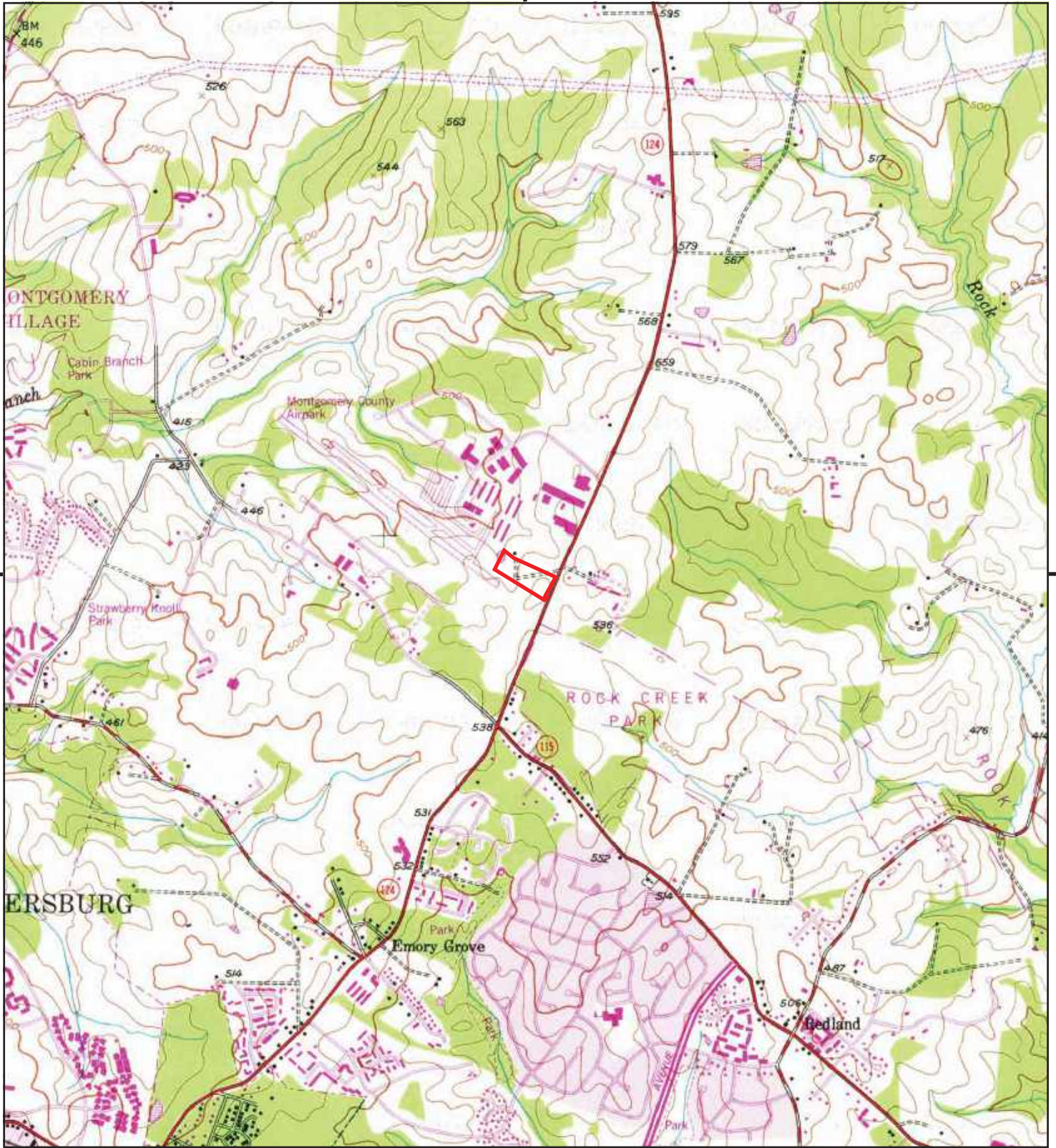
This report includes information from the following map sheet(s).



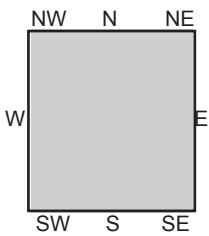
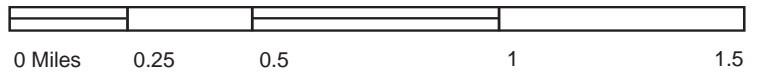
TP, Gaithersburg, 2014, 7.5-minute

**SITE NAME:** Montgomery County Airpark  
**ADDRESS:** 18800 Woodfield Road  
 Gaithersburg, MD 20879  
**CLIENT:** Chesapeake Environmental





This report includes information from the following map sheet(s).

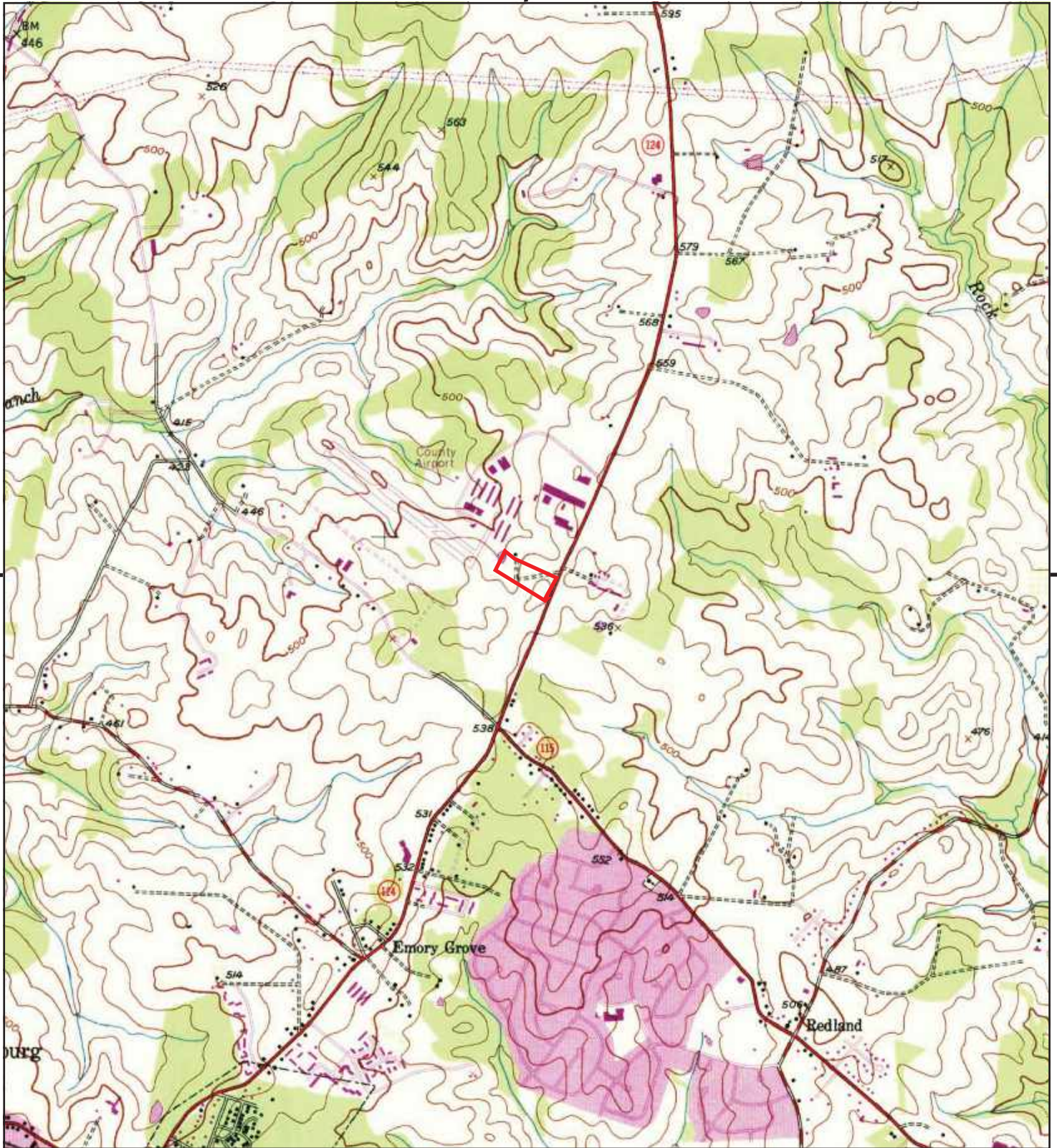


TP, Gaithersburg, 1979, 7.5-minute

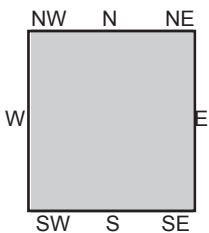
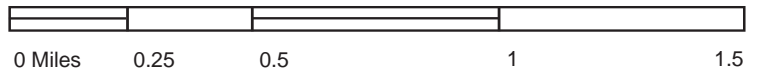
**SITE NAME:** Montgomery County Airpark  
**ADDRESS:** 18800 Woodfield Road  
 Gaithersburg, MD 20879  
**CLIENT:** Chesapeake Environmental







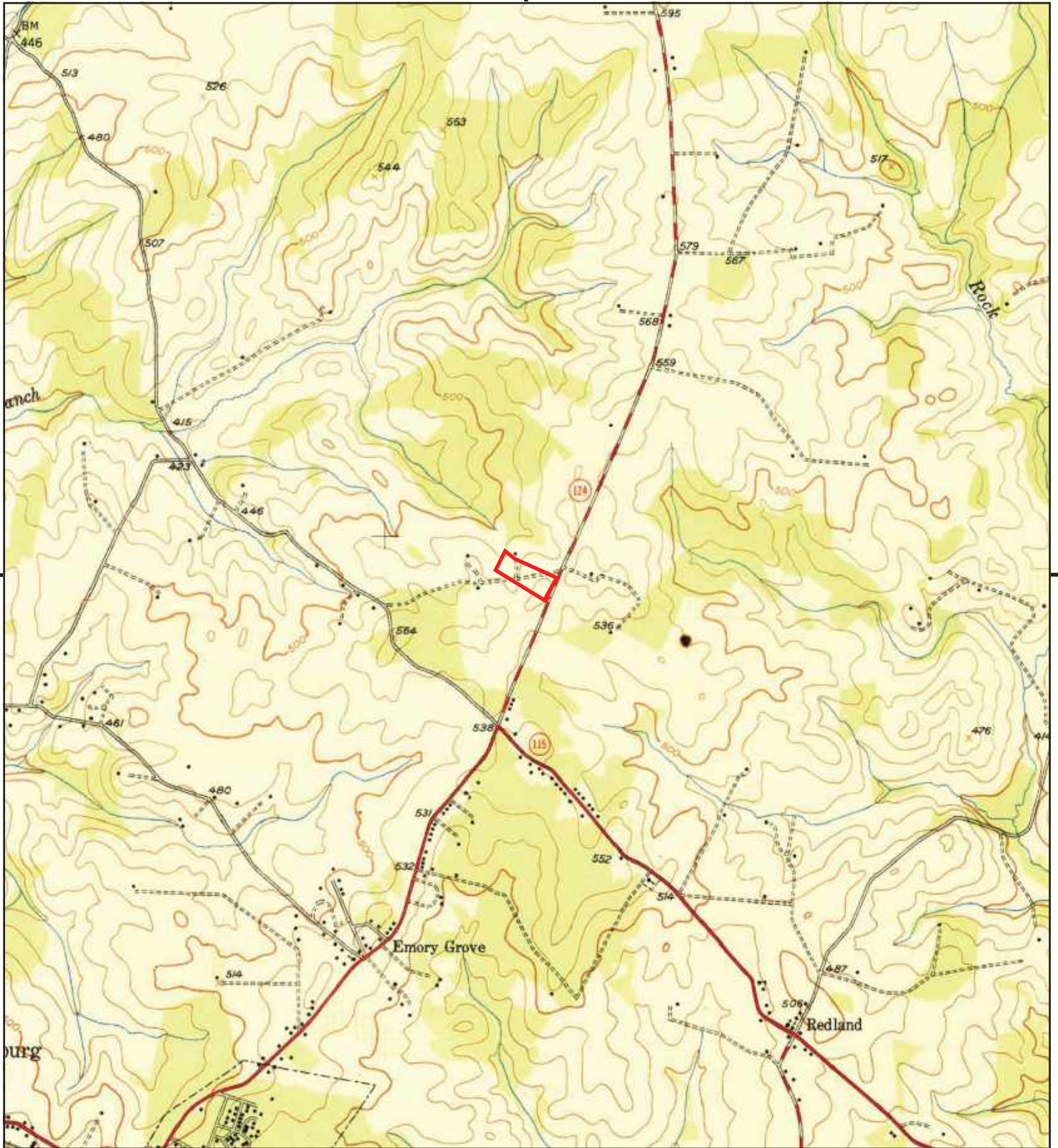
This report includes information from the following map sheet(s).



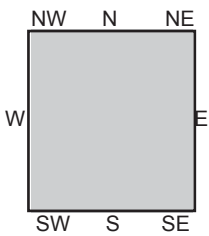
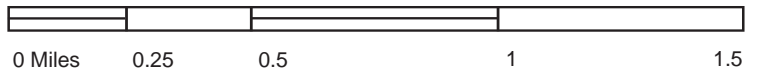
TP, Gaithersburg, 1971, 7.5-minute

SITE NAME: Montgomery County Airpark  
ADDRESS: 18800 Woodfield Road  
Gaithersburg, MD 20879  
CLIENT: Chesapeake Environmental





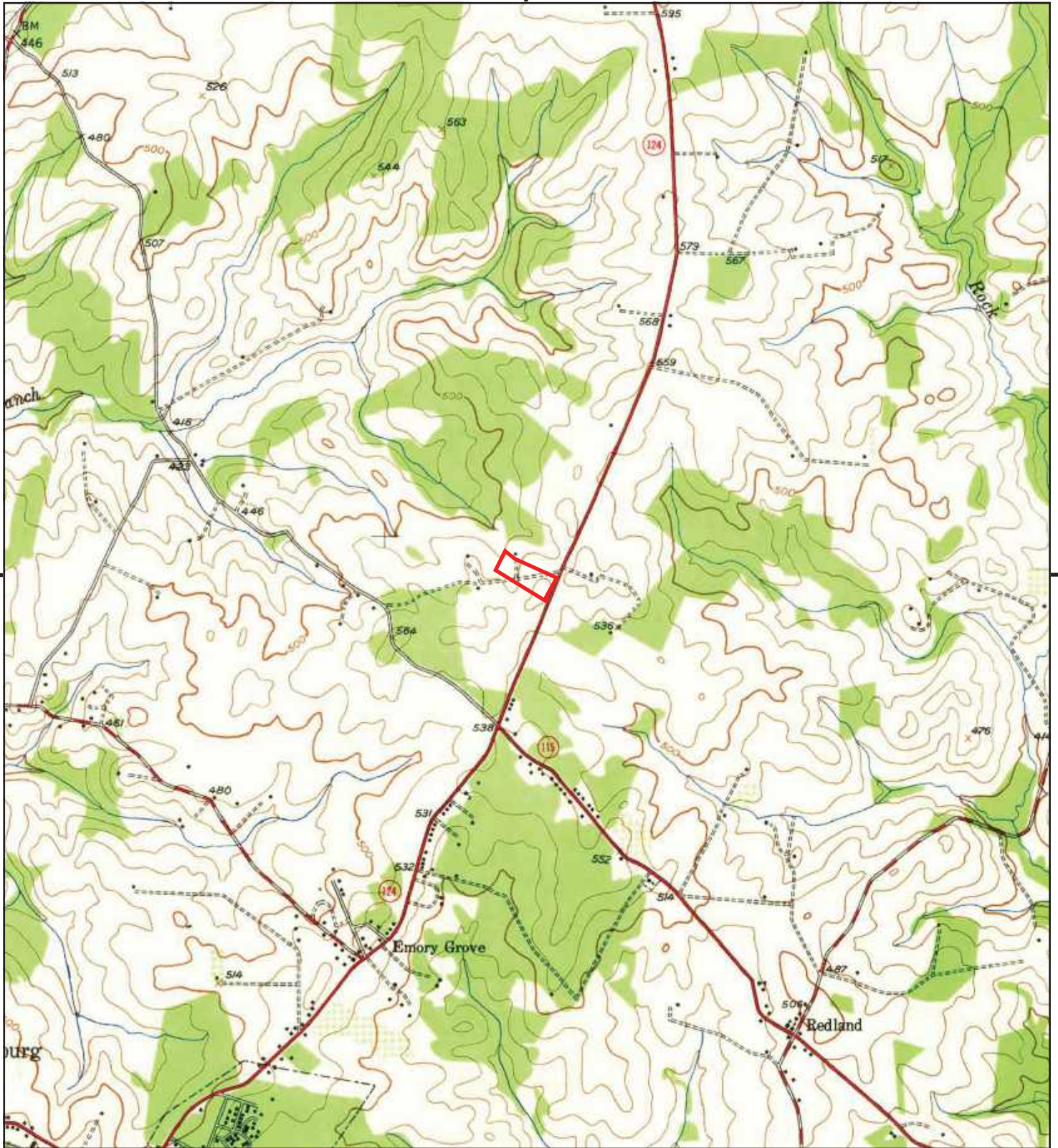
This report includes information from the following map sheet(s).



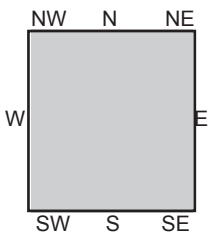
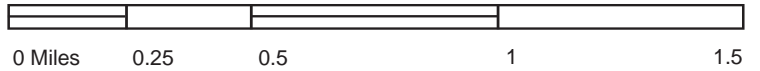
TP, Gaithersburg, 1950, 7.5-minute

SITE NAME: Montgomery County Airpark  
ADDRESS: 18800 Woodfield Road  
Gaithersburg, MD 20879  
CLIENT: Chesapeake Environmental





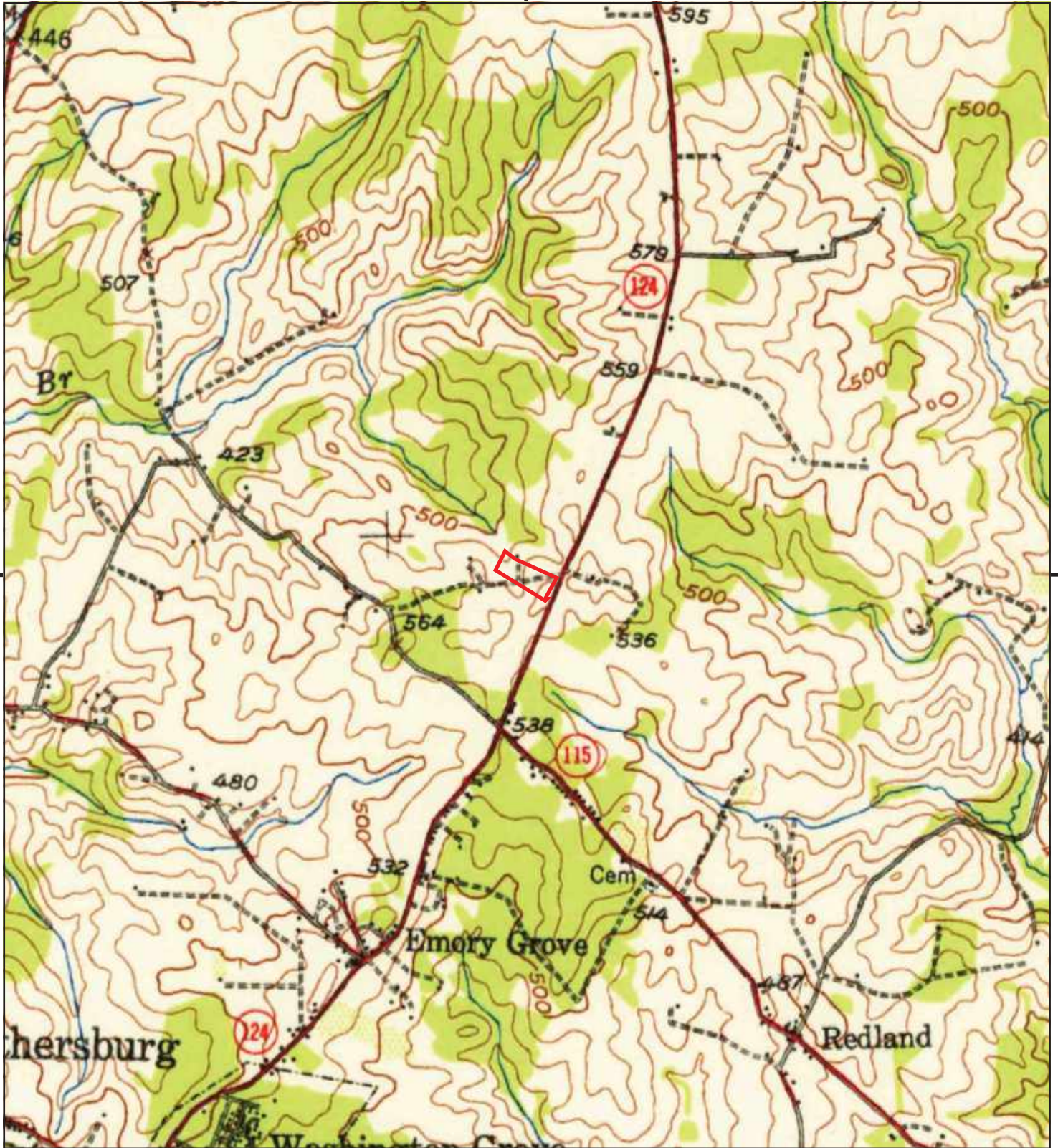
This report includes information from the following map sheet(s).



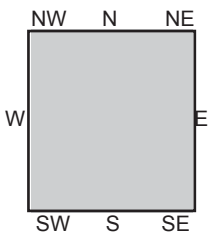
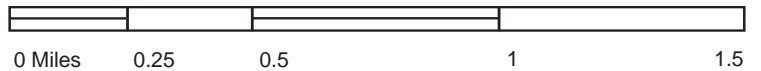
TP, Gaithersburg, 1945, 7.5-minute

SITE NAME: Montgomery County Airpark  
ADDRESS: 18800 Woodfield Road  
Gaithersburg, MD 20879  
CLIENT: Chesapeake Environmental





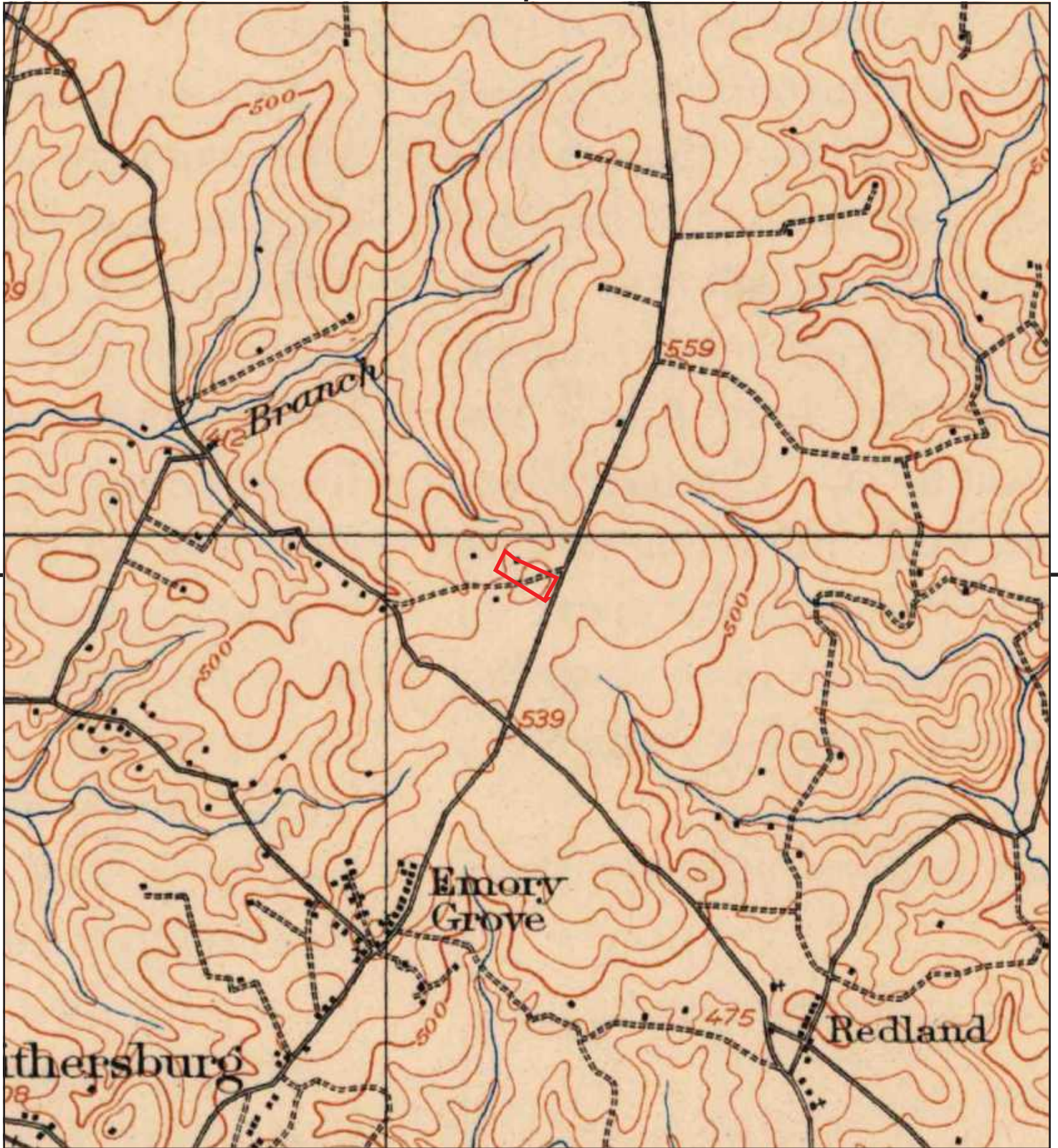
This report includes information from the following map sheet(s).



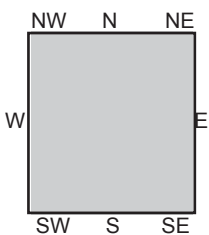
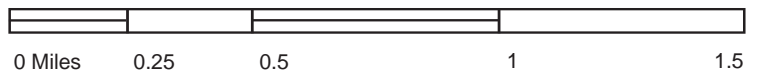
TP, Rockville, 1944, 15-minute

SITE NAME: Montgomery County Airpark  
 ADDRESS: 18800 Woodfield Road  
 Gaithersburg, MD 20879  
 CLIENT: Chesapeake Environmental





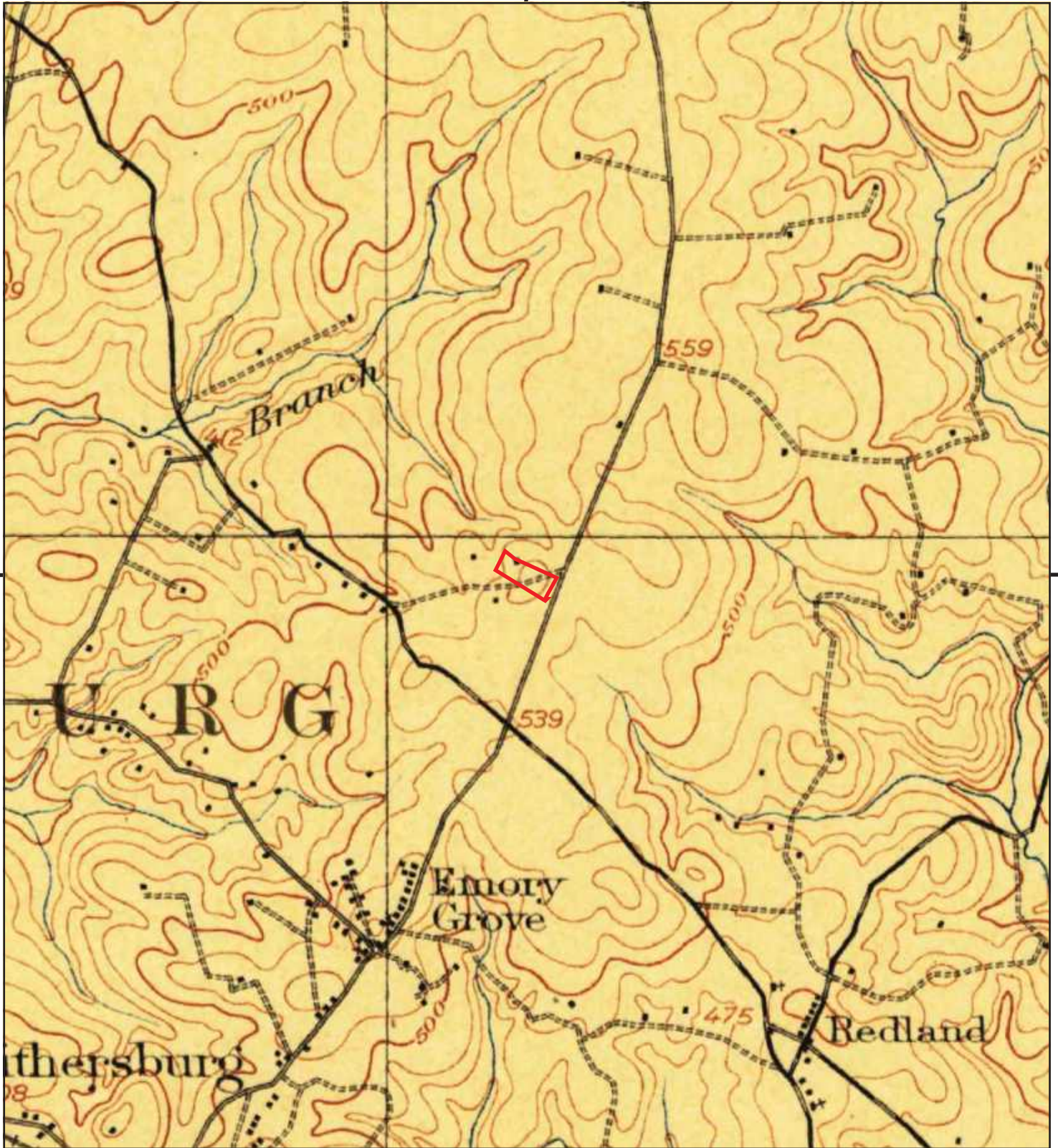
This report includes information from the following map sheet(s).



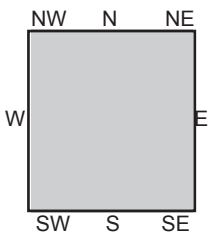
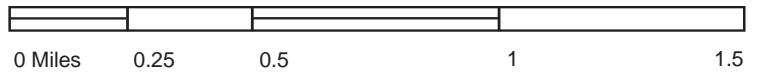
TP, Rockville, 1923, 15-minute

SITE NAME: Montgomery County Airpark  
ADDRESS: 18800 Woodfield Road  
Gaithersburg, MD 20879  
CLIENT: Chesapeake Environmental





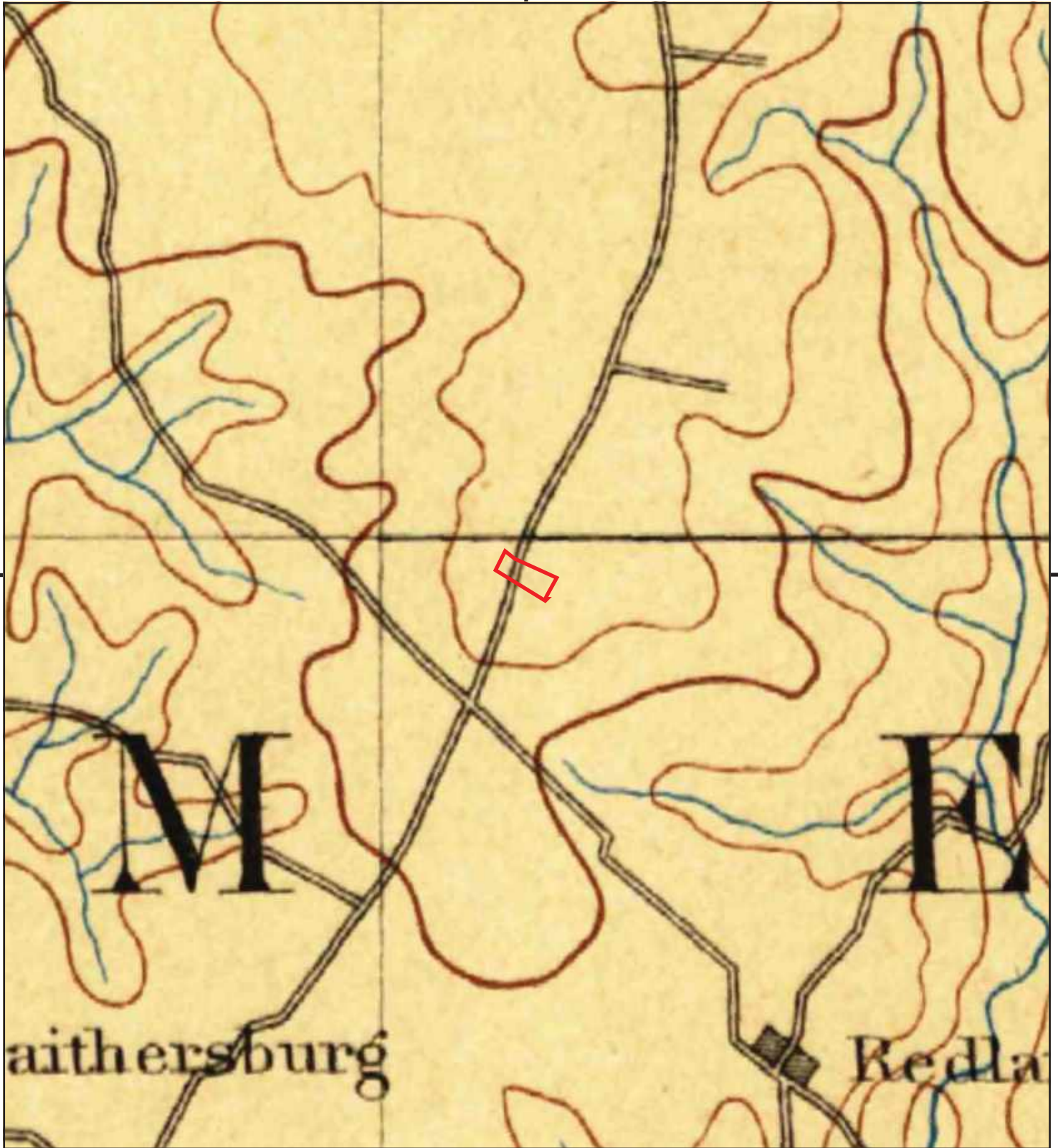
This report includes information from the following map sheet(s).



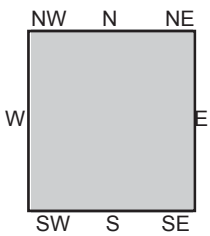
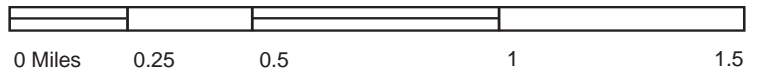
TP, Rockville, 1908, 15-minute

SITE NAME: Montgomery County Airpark  
ADDRESS: 18800 Woodfield Road  
Gaithersburg, MD 20879  
CLIENT: Chesapeake Environmental





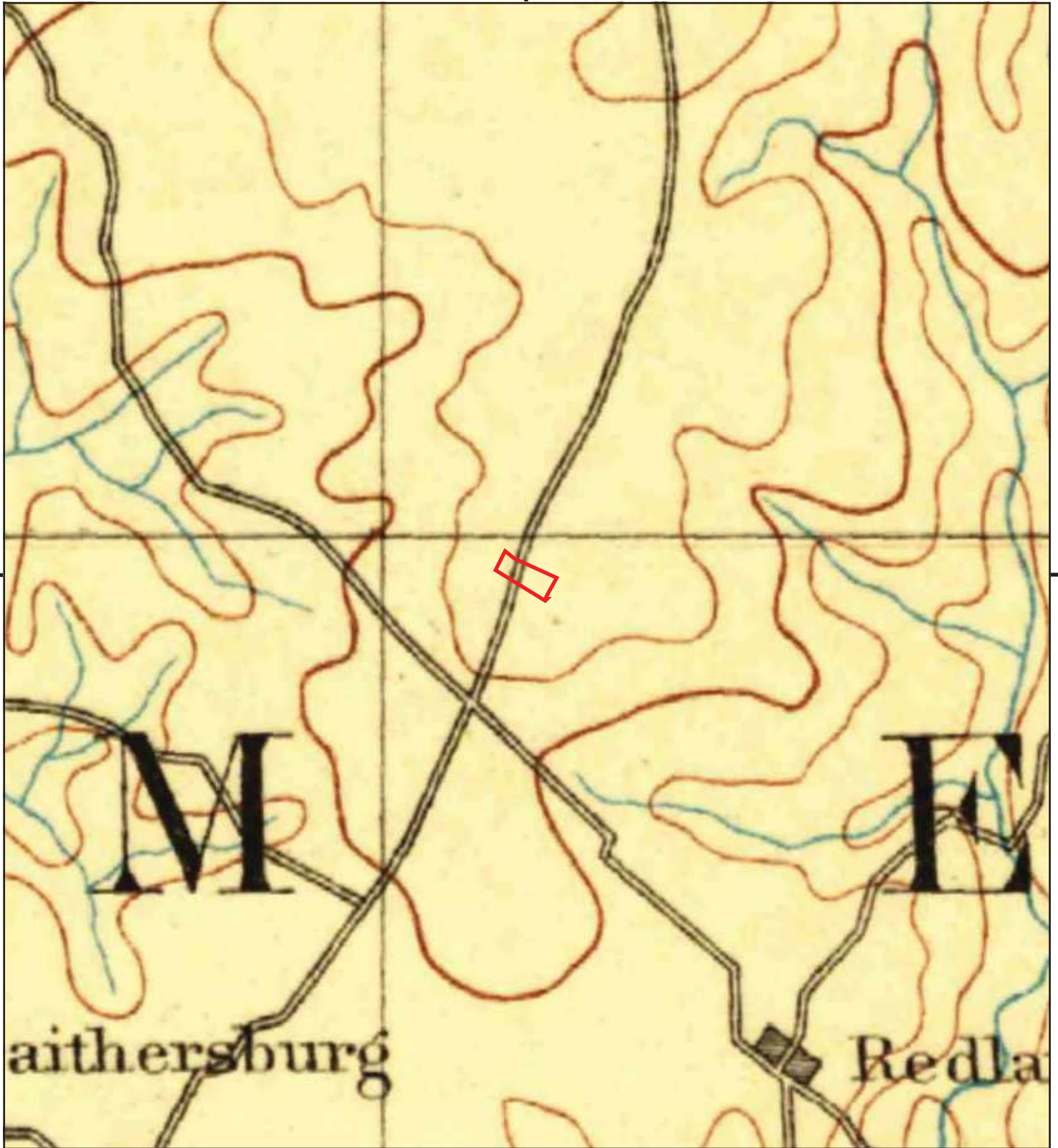
This report includes information from the following map sheet(s).



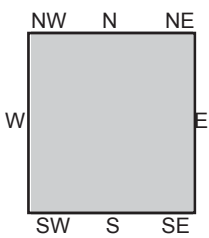
TP, Frederick, 1894, 30-minute

**SITE NAME:** Montgomery County Airpark  
**ADDRESS:** 18800 Woodfield Road  
Gaithersburg, MD 20879  
**CLIENT:** Chesapeake Environmental





This report includes information from the following map sheet(s).



TP, Frederick, 1893, 30-minute

SITE NAME: Montgomery County Airpark  
ADDRESS: 18800 Woodfield Road  
Gaithersburg, MD 20879  
CLIENT: Chesapeake Environmental





***APPENDIX I***

***HISTORICAL DATA – AERIAL PHOTOGRGAPHS***

Montgomery County Airpark  
18800 Woodfield Road  
Gaithersburg, MD 20879

Inquiry Number: 4616084.12

May 11, 2016

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

**Site Name:**

Montgomery County Airpark  
 18800 Woodfield Road  
 Gaithersburg, MD 20879  
 EDR Inquiry # 4616084.12

**Client Name:**

Chesapeake Environmental  
 42 North Main Street  
 Bel Air, MD 21014  
 Contact: Kevin Dimartino



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:**

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2011	1"=500'	Flight Year: 2011	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2007	1"=500'	Flight Year: 2007	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1998	1"=750'	Flight Date: February, 09 1998	USGS
1993	1"=500'	Acquisition Date: April, 07 1993	USGS/DOQQ
1981	1"=500'	Flight Date: February, 04 1981	USGS
1979	1"=500'	Flight Date: September, 16 1979	USGS
1970	1"=500'	Flight Date: September, 01 1970	USDA
1963	1"=500'	Flight Date: October, 10 1963	USDA
1957	1"=500'	Flight Date: April, 15 1957	USDA
1951	1"=500'	Flight Date: September, 28 1951	USGS
1943	1"=500'	Flight Date: December, 19 1943	USGS
1938	1"=500'	Flight Date: March, 21 1938	USGS

**When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.**

**Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2016 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.



INQUIRY # 4616084.12

YEAR: 2011

— = 500'



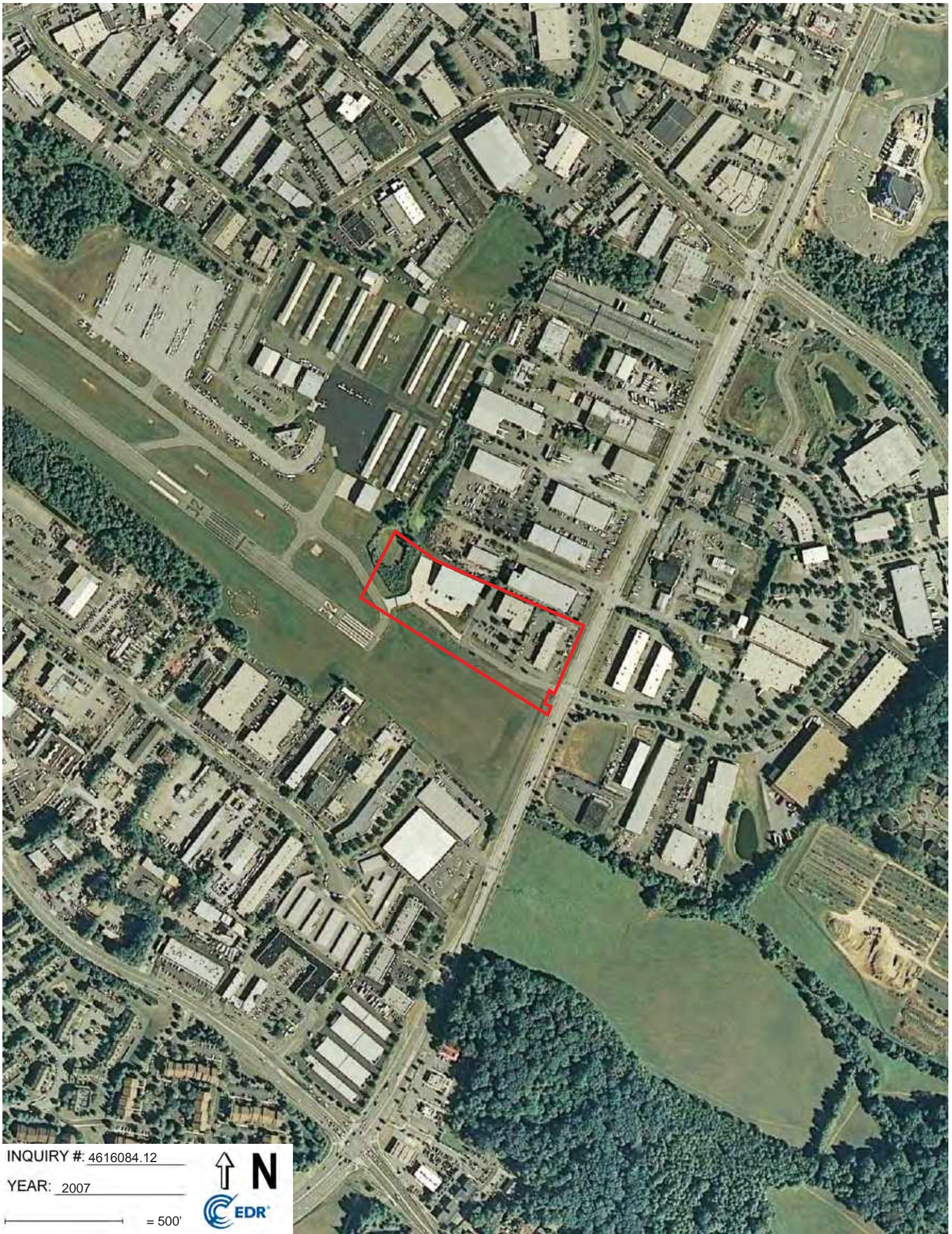


INQUIRY # 4616084.12

YEAR: 2009

— = 500'





INQUIRY # 4616084.12

YEAR: 2007

— = 500'





INQUIRY #: 4616084.12

YEAR: 2005

— = 500'





INQUIRY #: 4616084.12

YEAR: 1998

— = 750'







INQUIRY #: 4616084.12

YEAR: 1993

— = 500'





INQUIRY #: 4616084.12

YEAR: 1981

— = 500'



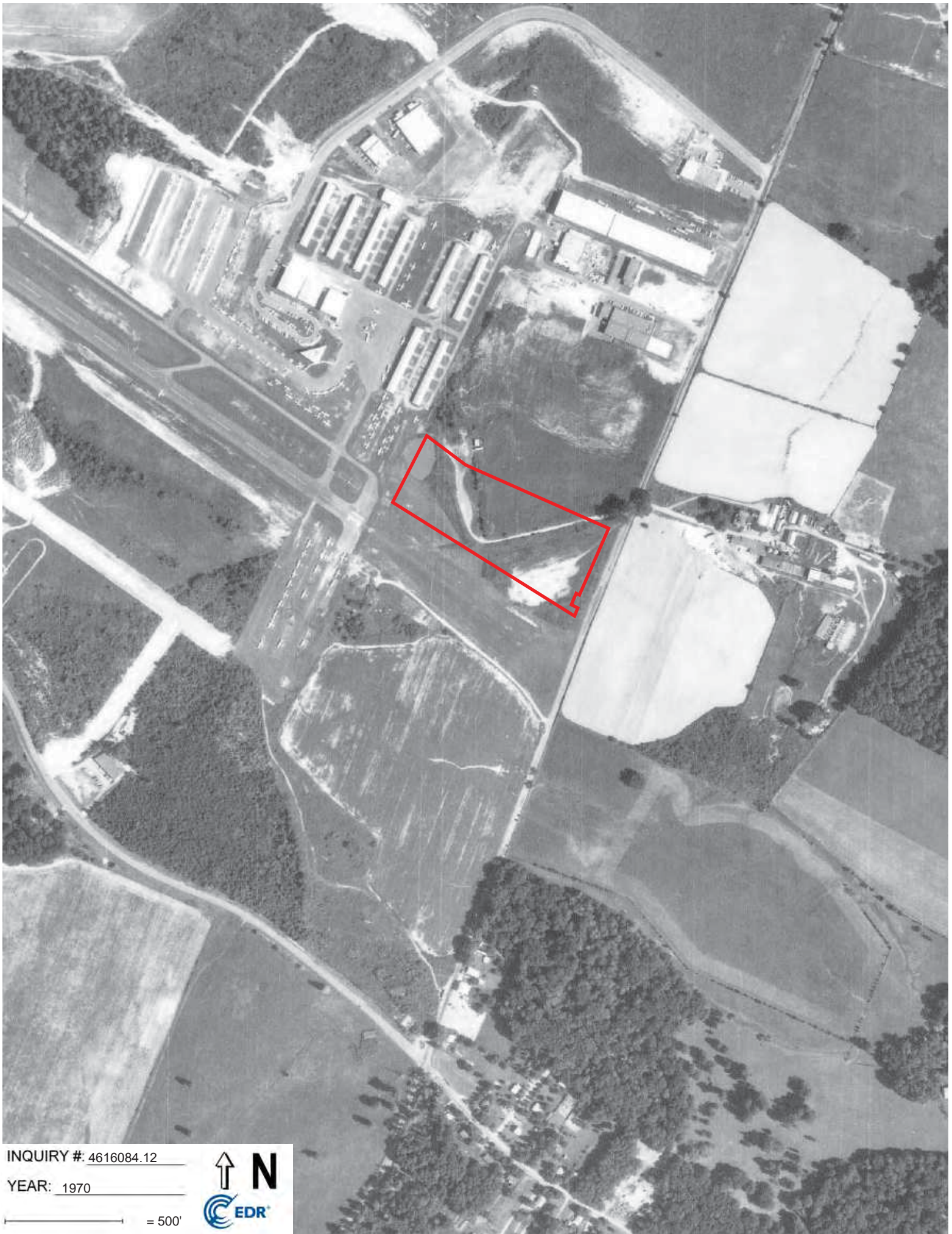


INQUIRY #: 4616084.12

YEAR: 1979

— = 500'





INQUIRY # 4616084.12

YEAR: 1970

— = 500'





INQUIRY #: 4616084.12

YEAR: 1963

— = 500'





INQUIRY #: 4616084.12

YEAR: 1957

— = 500'





INQUIRY #: 4616084.12

YEAR: 1951

— = 500'





INQUIRY #: 4616084.12

YEAR: 1943

— = 500'







INQUIRY #: 4616084.12


YEAR: 1938

— = 500'



**APPENDIX J**

*HISTORICAL DATA – SANBORN MAPS*



Montgomery County Airpark  
18800 Woodfield Road  
Gaithersburg, MD 20879

Inquiry Number: 4616084.3

May 11, 2016

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# Certified Sanborn® Map Report

05/11/16

**Site Name:**

Montgomery County Airpark  
18800 Woodfield Road  
Gaithersburg, MD 20879  
EDR Inquiry # 4616084.3

**Client Name:**

Chesapeake Environmental  
42 North Main Street  
Bel Air, MD 21014  
Contact: Kevin Dimartino



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Chesapeake Environmental were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn).

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 #** C3CC-4C57-A845  
**PO #** C2015036.002.0000  
**Project** Montgomery County Airpark EDDA



Sanborn® Library search results

Certification #: C3CC-4C57-A845

### 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.

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

*The Sanborn Library LLC Since 1866™*

## Limited Permission To Make Copies

Chesapeake Environmental (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

### Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2016 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

***APPENDIX K***

***PHOTOGRAPH RECORD***



Target Property 1 - Photo 01 - Overview of Property from East



Target Property 1 - Photo 02 - Pad-Mounted Transformer



Target Property 2 - Photo 01 - Overview of Property from East



Target Property 2 - Photo 02 - Overview of Property from South



Target Property 2 - Photo 03 - Pad-Mounted Transformer



Target Property 2 - Photo 04 - Pad-Mounted Transformer



Target Property 2 - Photo 05 - Dumping of Non-Hazardous Debris



Target Property 2 - Photo 06 - Dumping of Non-Hazardous Debris



Target Property 2 - Photo 07 - Dumping of Non-Hazardous Debris



Target Property 3 - Photo 01 - Overview of Property from East



Target Property 3 - Photo 02 - Overview of Property from West



Target Property 3 - Photo 03 - Overview of Merchants from the West





Target Property 3 - Photo 04 - Overview of Quick Lube from West



Target Property 3 - Photo 05 - Pad-Mounted Transformer and Storage Containers



Target Property 3 - Photo 06 - Storage Containers



Target Property 3 - Photo 07 - Dumping of Non-Hazardous Debris



## PHASE II ENVIRONMENTAL SITE ASSESSMENT

**Montgomery County Airpark Parcels  
18810 Woodfield Road  
Gaithersburg, Maryland**



*Prepared for:*

**Delta Airport Consultants**  
9711 Farrar Court, Suite 100  
Richmond, Virginia 23236

*Prepared by:*



**Chesapeake Environmental  
Management, Inc.**  
42 N. Main Street  
Bel Air, Maryland 21014



**JULY 2016  
REVISED: AUGUST 2016**

**Phase II Environmental Site Assessment  
Montgomery County Airpark Parcels  
18810 Woodfield Road  
Gaithersburg, Maryland**

*Prepared for:*

Delta Airport Consultants  
9711 Farrar Court, Suite 100  
Richmond, Virginia 23236

*Prepared by:*

Chesapeake Environmental Management, Inc.  
42 North Main Street  
Bel Air, Maryland 21014  
(410) 893-9016

**July 2016**  
**REVISED: August 2016**

## TABLE OF CONTENTS

	<u>Page</u>
EXECUTIVE SUMMARY .....	ES-1
1.0 INTRODUCTION .....	1
1.1 Purpose .....	1
1.2 Scope-of-Services .....	1
1.3 Significant Assumptions .....	1
1.4 Limitations and Exceptions .....	2
1.5 User Reliance.....	2
2.0 SITE DESCRIPTION AND PHYSICAL SETTING .....	2
2.1 Location and Legal Description .....	2
2.2 Physical Setting .....	2
2.2.1 Geology .....	2
2.2.2 Soils .....	3
2.2.3 Wetlands.....	3
2.2.4 Floodplain .....	3
2.2.5 Hydrology.....	3
2.3 Site and Vicinity General Characteristics .....	3
2.4 Phase I ESA Findings .....	3
3.0 SITE INVESTIGATION.....	3
3.1 Scope of Assessment.....	3
3.2 Utility Avoidance Clearance .....	4
3.3 Borings, Screening and Sampling .....	4
3.4 Laboratory Analysis .....	5
3.5 Quality Assurance/Quality Control .....	5
4.0 ANALYTICAL RESULTS .....	5
5.0 INVESTIGATION SUMMARY .....	6
5.1 Conclusions .....	6
5.2 Recommendations .....	6
6.0 REFERENCES.....	6

## LIST OF APPENDICES

APPENDIX A	LIST OF ACRONYMS
APPENDIX B	FIGURES
	FIGURE 1 – Target Property Location Map
	FIGURE 2 – Target Property Overview Map
APPENDIX C	SOIL BORING LOGS
APPENDIX D	SITE PHOTOGRAPHS
APPENDIX E	LABORATORY ANALYTICAL REPORT
APPENDIX F	ANALYTICAL SUMMARY TABLE

## EXECUTIVE SUMMARY

Chesapeake Environmental Management, Inc. (CEM) performed a Phase II Environmental Assessment (ESA) at the Gold's Gym located at 18810 Woodfield Road (previously identified as Target Property #2 in the Phase I ESA (CEM 2016)). The site is located along the southeastern border of the Montgomery County Airpark in Gaithersburg, Maryland (herein referred to as the "Target Property" and presented as **Figure 1**). The overview of the Target Property and the sampling locations are presented as **Figure 2**.

This Phase II ESA was performed in accordance with the procedures of the American Society for Testing and Materials (ASTM), *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process* (ASTM Standard E1903-11). The Phase II ESA field investigation activities occurred on June 15, 2016.

A Phase I ESA was performed on the property in June 2016 that included a review of historic environmental documentation, interviews, and site reconnaissance of the Site. No Recognized Environmental Conditions (RECs) were identified at the Target Property during the Phase I ESA investigation.

CEM understands that the Montgomery County Airpark proposes to acquire the Target Property and raze the existing structures to facilitate the proposed construction activities associated with the most recent Federal Aviation Administration (FAA) requirements. The purpose of this Phase II ESA was to assess whether there has been a release of hazardous substances at the Target Property that may be encountered during the construction process. The information collected during the Phase II ESA will also assist in characterizing subsurface contamination, creating impacted material handling plans, and mitigating possible exposure scenarios for onsite excavation.

The Phase II ESA included collecting soil samples from six locations at the Target Property (**Figure 2**) using an AMS PowerProbe 9100 All-Terrain Vehicle (ATV) rig. Borings were advanced to a depth of 10 feet below ground surface (bgs) based on the maximum depth of excavation anticipated during the construction activities. Groundwater was not encountered during this subsurface investigation in any of the borings advanced at the Target Property.

Six subsurface soil samples were collected and submitted to Maryland Spectral Services to be analyzed for the following:

- Total Petroleum Hydrocarbons Diesel-Range Organics (TPH-DRO)
- Total Petroleum Hydrocarbons Gasoline-Range Organics (TPH-GRO)
- Resource, Conservation, and Recovery Act (RCRA) Metals
- Volatile Organic Compounds (VOCs)
- Semi-Volatile Organic Compounds (SVOCs)
- Polychlorinated Biphenyls (PCBs)

Based on the results of this investigation, concentrations of arsenic in the soils exceeded the Maryland Department of the Environment (MDE) non-residential cleanup standard of 1.9 mg/kg in two of the six samples submitted for analysis (SB-2 and SB-5). None of the reported concentrations of arsenic exceeded the United State Geologic Society (USGS) Anticipated Typical Concentration (ATC) of 4.9 mg/kg for central Maryland. Reported concentrations of VOCs, RCRA Metals, and TPH-DRO were reported above the laboratory method reporting limits but below their respective MDE non-residential cleanup standards.

Construction through contaminated areas will be subject to regulatory requirements for appropriate management and disposal of contaminated materials to protect workers and the public. Existing buildings will be demolished and the Target Property will be regraded to accommodate anticipated construction activities.

Based on the findings of this Phase II ESA, CEM recommends the following:

1. According to the analytical results obtained from the sampling event, the soils currently at the Target Property can remain in place. Although the reported concentrations of arsenic exceed the MDE non-residential cleanup standard, the concentrations are consistent with the ATC for arsenic in Central Maryland and are indicative of naturally occurring sources (rather than anthropogenic contamination).
2. Dust control measures and monitoring should be implemented during construction activities to reduce incidental inhalation exposure from potentially impacted soil particles to onsite workers and the surrounding community.
3. If soils need to be disposed off-site as part of the proposed construction activities, the analytical results should be provided to the disposal facility to ensure acceptance of the materials, based on the permit requirements of the receiving facility.

## **1.0 INTRODUCTION**

### **1.1 Purpose**

This Phase II Environmental Site Assessment (ESA) was conducted at the Gold's Gym located at 18810 Woodfield Road, Gaithersburg, Maryland (referred to as the "Target Property" and presented as **Appendix B – Figure 1**) to assess whether there has been a release of hazardous substances at the Target Property that may be encountered during construction activities.

This Phase II ESA was performed in accordance with the procedures of the American Society for Testing and Materials (ASTM), Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process (ASTM Standard E1903-11). The Phase II ESA field investigation activities occurred on June 15, 2016.

A Phase I ESA was previously performed for the Target Property in June 2016 that included a review of historic environmental documentation, interviews, and site reconnaissance of the Target Property. No Recognized Environmental Conditions (RECs) associated with the Target Property were identified during the Phase I ESA investigation.

CEM understands that the Montgomery County Airpark proposes to acquire the Target Property and raze the existing structures to facilitate the proposed construction activities associated with the most recent Federal Aviation Administration (FAA) requirements. The information collected during the Phase II ESA will assist in characterizing subsurface contamination, creating impacted material handling plans, mitigating possible exposure scenarios for onsite excavation, and controlling offsite contaminant exposure. The scope of this investigation excludes any determination of the source of impact, if any, on the property due to the release of contaminants of concern (COCs) into soils or groundwater.

### **1.2 Scope-of-Services**

This Phase II ESA evaluates current site conditions with respect to potential impacts to soil or groundwater from petroleum products or other hazardous substances. The investigation is limited to the Target Property boundaries presented in **Appendix B – Figure 2**.

The Phase II ESA included the mobilization of a field crew for the collection of subsurface samples. Following the collection of the soil samples, the samples were transported under standard chain-of-custody handling procedures to a certified laboratory for analysis.

### **1.3 Significant Assumptions**

This Phase II ESA was prepared using information obtained from and/or provided by the following sources:

- Phase I Environmental Site Assessment, Montgomery County Airpark Parcels (CEM 2016)
- Environmental Data Resources (EDR) Report (contained within the Phase I ESA)

For purposes of this report, the information obtained through the listed methods is assumed valid and accurate as provided. CEM has not verified the completeness or accuracy of the information provided by others, unless specifically noted. The field observations were based upon conditions readily visible at the Target Property at the time of the investigation.

The PowerProbe direct-push coring method was limited to unconsolidated soils and sediments. When bedrock or very stiff soils were encountered and could not be effectively penetrated, refusal was determined by the driller.

Changes at the Target Property over time, the manifestation of latent conditions, or changes to existing codes and regulations may alter the conclusions and recommendations of this report. If additional

information becomes available that may affect these conclusions and recommendations, CEM reserves the opportunity to review the information and modify the report.

#### **1.4 Limitations and Exceptions**

Based upon the scope-of-services, the locations and number of samples collected and analyzed do not represent a complete assessment of the entire property. The soil boring locations were selected within the Target Property boundaries and based on historical onsite activities, regulatory documentation, and previous observations made during the Phase I ESA investigation. These locations may have been adjusted in the field to avoid known underground utilities identified by the owner or encountered during the underground utility locating activities, as well as minimize interruption to daily business operations.

The Phase II ESA report was prepared in accordance with ASTM Standard E1903-11, and the standard limitations apply. The absence of recognized environmental conditions or contamination recognition in this report cannot be interpreted as a warranty, expressed or implied, that no contamination exists at the Target Property. Accordingly, this Phase II ESA does not purport to describe all environmental risks affecting the Target Property, nor will any additional investigation determine as a matter of certainty that all environmental risks affecting the Target Property have been identified.

None of the work performed shall constitute or be represented as a legal opinion of any kind or nature, but shall be a representation of findings of fact from the results of the assessment.

#### **1.5 User Reliance**

The Phase II ESA has been prepared for the exclusive use of Delta Airport Consultants (DAC). The assessment was conducted in accordance with generally accepted environmental standards and practices as defined by ASTM E1903-11. No other warranty, expressed or implied, is made.

CEM acknowledges that DAC will provide a copy of this report to the Montgomery County Airpark as part of the due diligence process associated with the proposed construction activities to be performed at the Target Property. Other than DAC and Montgomery County Airpark, this report is not for the use or benefit of, nor may it be relied upon by, any other person or entity without the advance written consent of CEM.

## ***2.0 SITE DESCRIPTION AND PHYSICAL SETTING***

### **2.1 Location and Legal Description**

The Target Property is located within Montgomery County, Maryland. The Target Property to be acquired by the Montgomery County Airpark is approximately 1.66 acres in area and is zoned for commercial usage (**Appendix B - Figure 2**).

### **2.2 Physical Setting**

#### **2.2.1 Geology**

Review of the Geologic Map of Maryland, Montgomery County (compiled by the Maryland Geological Survey (MGS) and dated 1968), indicates that the Target Property is underlain by the Late Precambrian age Upper Pelitic Schist, which is described as *“Albite-chlorite-muscovite-quartz schist with sporadic thin beds of laminated micaceous quartzite; coarsens form west to east; primary sedimentary structures include normal bedding, graded bedding, and soft-sediment deformational structures”* with an apparent thickness of 14,000 feet.

According to the 2008 Physiographic Map of Maryland, the Target Property is characterized by the Hampstead Upland District, which is characterized by *“rolling to hilly uplands interrupted by steep-*



*walled gorges. Differential weathering of adjacent, contrasting lithologies produces distinctive ridges, hills, barrens, and valleys. Streams may have short segments of narrow, steep-sided valleys."*

### **2.2.2 Soils**

According to the Soil Conservation Service (SCS), a division of the United States Department of Agriculture (USDA), the Target Property is underlain predominately by the Glenelg silt loam. Glenelg silt loam consists of well-drained soils with moderately coarse textures and moderate infiltration rates.

The soils located at the Target Property are characterized by 3 to 8 percent slope; however, drainage and infiltration rates vary and are dependent upon local surface features and stormwater management devices.

Relative densities of the subsurface material observed during the Phase II soil classification activities were moderately dense to dense.

### **2.2.3 Wetlands**

According to the reviewed National Wetland Inventory Maps (NWI), there are no mapped wetlands on the Target Property or in the immediate vicinity.

### **2.2.4 Floodplain**

According to Flood Insurance Rate Map (FIRM) panel 24031C0191D, the Target Property is listed as being in Zone X. Zone X is described as, "areas determined to be outside the 0.2% annual chance floodplain," by the Federal Emergency Management Agency (FEMA).

### **2.2.5 Hydrology**

The average depth to groundwater across the Target Property is anticipated to be greater than 10 feet below ground surface (bgs). Based on topography and local hydrologic features, groundwater flow direction is anticipated to be to the west-northwest towards Cabin Branch.

## **2.3 Site and Vicinity General Characteristics**

The Target Property is located along Woodfield Road in a commercial area of Gaithersburg, Maryland. The Target Property is bounded by the Montgomery County Airpark to the south and west, commercial buildings to the north and east.

## **2.4 Phase I ESA Findings**

CEM had previously prepared a Phase I ESA for the properties associated with the Montgomery County Airpark in July 2011 and an updated Phase I ESA in August 2016. Both investigations identified potential soil contamination at the Target Property associated with an unlabeled transformer and the historical land usage of the site as a former printing shop.

## **3.0 SITE INVESTIGATION**

### **3.1 Scope of Assessment**

This Phase II ESA included an onsite subsurface boring and sampling investigation localized within the Target Property boundaries to determine if any potential contaminants will be encountered during construction activities.

### 3.2 Utility Avoidance Clearance

The soil boring locations were selected based on historical onsite activities, regulatory documentation, and previous observations during the Phase I ESA investigation. Additionally, the owner was consulted about the proposed sampling locations (prior to initiating the drilling activities) to avoid known underground utilities (identified by the owner) and to minimize any interruptions to daily business operations. The soil borings were advanced using an AMS PowerProbe 9100 ATV drill rig operated by CEM.

Prior to commencement of onsite activities, the following arrangements were made:

- Site access was coordinated with the property owner and site manager to minimize disruption of ongoing operations.
- Underground utilities were identified, marked and confirmed with Miss Utility and an independent utility scan subcontractor.

### 3.3 Borings, Screening and Sampling

CEM's driller advanced six subsurface borings and collected six subsurface soil samples on June 15, 2016. The sampling locations are presented in **Appendix B - Figure 2**.

At each boring location, a 1.5-inch diameter sampler was advanced vertically into the soil to 10 feet bgs. Each recovered soil core was retained in a 4-foot long, non-reactive, clear plastic liner that allowed the sample to be removed intact from the PowerProbe direct-push rig.

Upon recovery of the sample from the borehole, the liner was split to expose the sample. CEM's geologist classified the soil type using the Unified Soil Classification System (USCS) and all observed soil descriptions are presented in **Appendix C – Soil Boring Logs**. Samples were collected from the liners and unused soils were returned to the boring hole and compacted. The remainder of the borehole was filled with highly expansive bentonite clay chips to prevent surface water run-off from using the boring as a conduit to reach groundwater. The surface was restored to the condition prior to drilling with like materials surrounding the borehole (asphalt or soil).

Sections of the soil samples that were being analyzed for TPH-GRO and VOCs were immediately prepared and transferred to laboratory-provided containers, consistent with EPA Method 5035. The remaining core sections from each interval identified for sampling were composited in a Ziploc® bag. Potential soil vapors were allowed to equilibrate inside the bag for 10 to 20 minutes. Field headspace screenings were conducted using an RAE Systems MiniRAE 3000 PID equipped with a 10.6 eV Krypton ionization lamp. Maximum PID headspace readings for each interval were recorded in the field notes. Following the headspace screening, soil samples selected for analysis were transferred to laboratory provided containers for analysis. All soil samples were labeled with the boring location ID and the depth at which that sample was collected (e.g. SB-2 (2-6')).

Soil samples were selected for laboratory analysis based on anticipated construction excavation depths. All soil samples were taken from a 2 to 6 feet bgs range. Groundwater was not encountered in any of the soil borings advanced at the Target Property.

The soil descriptions, PID readings, and the laboratory sample identifications are documented in the soil boring logs presented in **Appendix C**. Photographs taken during the Phase II sampling activities are presented in **Appendix D**.

### 3.4 Laboratory Analysis

All samples were packed on ice inside an insulated cooler and maintained at an approximate temperature of 4°C. The samples were delivered under standard chain-of-custody documentation to Maryland Spectral Services at 1500 Caton Center Drive, Suite G, in Baltimore, Maryland for the following analyses:

- Total Petroleum Hydrocarbons Diesel-Range Organics (TPH-DRO) according to EPA Method 8015B
- Total Petroleum Hydrocarbons Gasoline-Range Organics (TPH-GRO) according to EPA Method 8015B
- Resource, Conservation, and Recovery Act (RCRA) Metals according to EPA Method 6010 (analysis included arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver)
- Volatile Organic Compounds (VOCs) according to EPA Method 8260B
- Semi-Volatile Organic Compounds (SVOCs) according to EPA Method 8270D
- Polychlorinated Biphenyls (PCBs) according to EPA Method 8082

Laboratory analytical reports are provided in **Appendix E**.

### 3.5 Quality Assurance/Quality Control

The following procedures were used to prevent cross contamination between samples in the field:

- New AMS PowerProbe core liners were used for each 4-foot sample interval.
- New nitrile gloves were donned before handling each sample interval.
- New Ziploc bags were used for each sample interval preparation.
- Sample rods were decontaminated upon completion of each sampling location.

In addition, the following quality control samples were collected:

- One trip blank sample was submitted to the lab for VOC analysis to identify errors or contamination in sample collection or analysis.

## 4.0 ANALYTICAL RESULTS

Analytical results from the soil sampling activities are presented in **Appendix F** of this report, which summarizes the concentrations of compounds reported above the laboratory method reporting limits. The complete laboratory analytical reports for the Phase II ESA are attached as **Appendix E**. All reported soil concentrations have been compared to MDE non-residential clean-up standards.

The significant soil findings are as follows:

- VOC and TPH-DRO concentrations were reported above the laboratory method reporting limit in one of the soil samples submitted (SB-1). However, the concentrations did not exceed their respective MDE non-residential cleanup standards.
- Metals were reported in all of the soil samples submitted for analysis.
  - Arsenic concentrations ranged from 0.856 mg/kg (SB-4) to 2.62 mg/kg (SB-2). Two of the reported concentrations exceeded the MDE non-residential standard for arsenic of 1.9 mg/kg (2.62 mg/kg in the sample collected from SB-2 and 1.94 mg/kg in the sample collected from SB-5). However, the concentrations of arsenic reported in these two samples did not exceed the USGS Anticipated Typical Concentration (ATC) concentration for arsenic in Central Maryland of 4.9 mg/kg, indicating that the reported concentrations are consistent with naturally occurring conditions, and are not indicative of contamination.

- There were no other concentrations of metals reported that exceeded their respective MDE non-residential cleanup standard.
- TPH-GRO, SVOC, and PCB concentrations were not reported above the laboratory method reporting limits in any of the samples submitted for analysis.

## **5.0 INVESTIGATION SUMMARY**

The purpose of this Phase II ESA was to assess whether there has been a release of hazardous substances at the Target Property that may be encountered during the construction process.

### **5.1 Conclusions**

This investigation identified reported concentrations of arsenic in the soils exceeding the MDE non-residential cleanup standard (1.9 mg/kg) in two of the six samples submitted for analysis (SB-2 and SB-5). None of the reported concentrations of arsenic exceeded the ATC concentration of 4.9 mg/kg for central Maryland. Reported concentrations of VOCs and TPH-DRO were reported above the laboratory method reporting limits but below their respective MDE non-residential cleanup standards.

### **5.2 Recommendations**

Based on the findings of this Phase II ESA, CEM recommends the following:

- According to the analytical results obtained from the sampling event, the soils currently at the Target Property can remain in place. Although the reported concentrations of arsenic exceed the MDE non-residential cleanup standard, the concentrations are consistent with the ATC for arsenic in Central Maryland and are indicative of naturally occurring sources (rather than anthropogenic contamination).
- Dust control measures and monitoring should be implemented during construction activities to reduce incidental inhalation exposure from potentially impacted soil particles to onsite workers and the surrounding community.
- If soils need to be disposed off-site as part of the proposed construction activities, the analytical results should be provided to the disposal facility to ensure acceptance of the materials, based on the permit requirements of the receiving facility.

## **6.0 REFERENCES**

- CEM. (2016). Phase I Environmental Site Assessment, Montgomery County Airpark Parcels 18800, 18810, and 18820 Woodfield Road, Gaithersburg, Maryland.
- ASTM. (2011). Designation E 1903-11, Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process. West Conshohocken, PA: American Society for Testing and Materials.
- MDE. (2008). Cleanup Standards for Soil and Groundwater – Interim Final Guidance. Baltimore, MD: Maryland Department of the Environment.
- USGS Mineral Resources On-Line Spatial Data [<http://mrddata.usgs.gov/geology/state/sgmc-unit.php?unit=MDwlp;4>].
- USDA Natural Resources Conservation Service On-Line Soil Mapper [<http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>].
- FEMA Flood Insurance Rate Map (FIRM) panel 24031C0460D. Federal Emergency Management Administration. 1996.

**APPENDIX A**

*LIST OF ACRONYMS*

## ***LIST OF ACRONYMS***

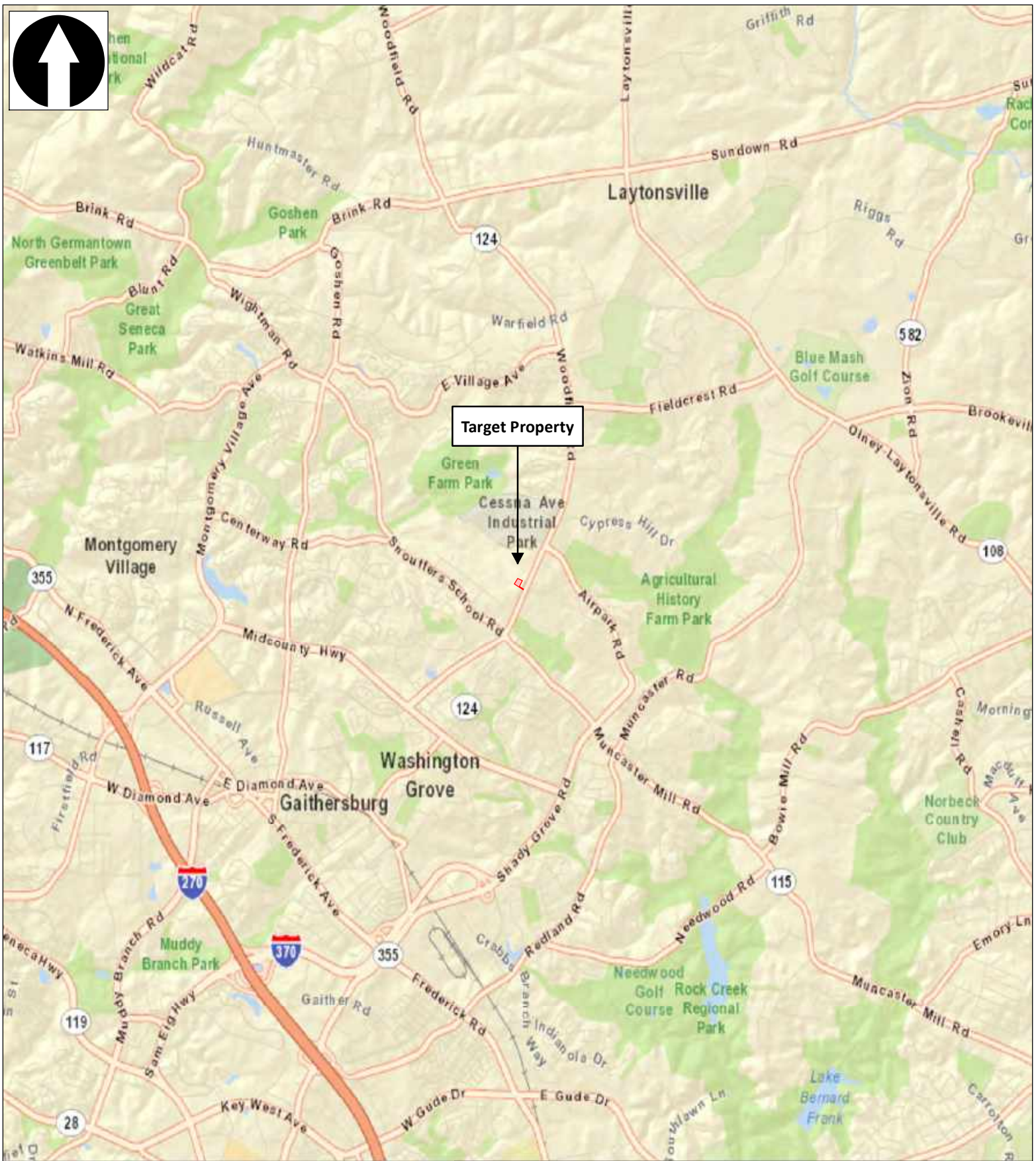
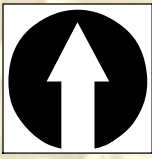
AMSL	Above Mean Sea Level	MDE	Maryland Department of the Environment
ASTM	American Society for Testing and Materials	MGS	Maryland Geological Survey Service
ATC	Anticipated Typical Concentration	NWI	National Wetland Inventory
ATV	All-Terrain Vehicle	OCF	Oil Control Program
BGS	Below Ground Surface	PCB	Polychlorinated Biphenyls
CEM	Chesapeake Environmental Management, Inc.	PIA	Public Information Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980	PID	Photo-Ionization Detector
COC	Contaminants of Concern	RCRA	Resource Conservation and Recovery Act of 1976
DAC	Delta Airport Consultants	REC	Recognized Environmental Condition
DRO	Diesel Range Organics	SCS	Soil Conservation Service
EDR	Environmental Data Resources, Inc.	SVOC	Semi-Volatile Organic Compounds
EPA	Environmental Protection Agency	TPH	Total Petroleum Hydrocarbons
ESA	Environmental Site Assessment	USDA	United States Department of Agriculture
FAA	Federal Aviation Administration	USCS	United Soil Classification System
FEMA	Federal Emergency Management Agency	USGS	United States Geological Survey
FIRM	Flood Insurance Rate Map	UST	Underground Storage Tank
FOIA	Freedom of Information Act	VOC	Volatile Organic Compounds
GRO	Gasoline Range Organics		

**APPENDIX B**


**FIGURES**

*Figure 1 – Target Property Location Map*

*Figure 2 – Target Property Overview Map*



**LEGEND:**

 Target Property (Phase I ESA Target Property #2)



PHASE II ENVIRONMENTAL SITE ASSESSMENT  
Montgomery County Airpark Parcels  
18810 Woodfield Road, Gaithersburg, Maryland

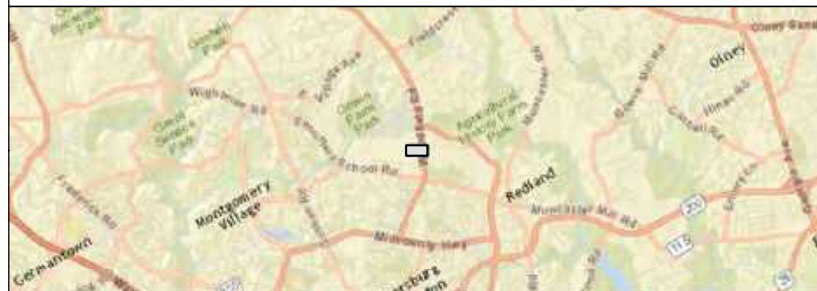
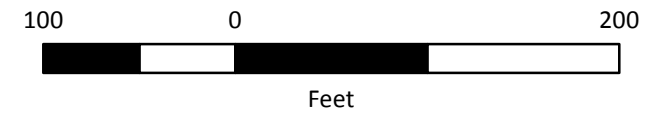
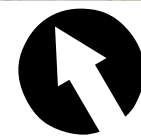
**Map Title:**  
Figure 1  
Target Property Location Map

**Data Source:**  
ESRI

**Date:** July 2016

**Scale:** 1" = 0.5 mile





- LEGEND:**
- Target Property Boundary
  - Adjacent Parcel Boundary
  - Soil Boring Locations



<p>PHASE II ENVIRONMENTAL SITE ASSESSMENT          Montgomery County Airpark Parcels          18810 Woodfield Road, Gaithersburg, Maryland</p>	
<p><b>Map Title:</b>          Figure 2          Target Property Overview Map</p>	
<p><b>Data Source:</b>          ESRI          Site Inspection Data</p>	<p><b>Date:</b> July 2016   <b>Scale:</b> 1"=100'</p>

**APPENDIX C**  
**SOIL BORING LOGS**

**Chesapeake Environmental Management, Inc.**

42 North Main Street  
Bel Air, MD 21014



Logged by: Joseph Sawicki

Driller: Daniel Danko

Date: 6/15/2016

Job. No. / Client: Delta

Drilling Method: Direct Push

Sampling Method: Acetate Liner  
Grab Sample

Water Level:

Time:

Date:

Location: Montgomery County Airpark

Boring No.: SB-1

Sheet No.: 1 of 1

Drilling: Start Finish

1140 1205

Inches Driven/In. Recovered	Sample No.	PID (ppm)	Depth (Feet bgs)	USCS Log	Surface Conditions: Asphalt
48/24	SB-1 (2-6')	0.0	1	ML	0" - 6" - Asphalt/Base 6" - 4' - Red/Brown SILT, trace Clay, dense, dry.
		0.0	2		
		0.0	3		
		0.0	4		
48/48	SB-1 (2-6')	0.0	5	ML	4' - 8' - Red SILT, trace Clay, trace fine to medium Sand, dense, dry; 1cm black bands present.
		0.0	6		
		0.0	7		
		0.0	8		
24/0	SB-1 (2-6')		9		8' - 10' - NO RECOVERY
			10		
			11		End PID Screening
			12		
	SB-1 (2-6')		13		
			14		
			15		
			16		
	SB-1 (2-6')		17		
			18		
			19		
			20		

**LEGEND:**  
 bgs - below ground surface  
 PID - Photo Ionization Detector  
 USCS - Unified Soil Classification System  
 ppm - parts per million  
**trace - 1 to 10% soil type**  
**little - 10 to 20% soil type**  
**some - 20 to 35% soil type**

**USCS Group Symbols:**  
 GW - well graded gravel, fine to coarse gravel  
 SW - well graded sand, fine to coarse sand  
 ML - silt with liquid limit < 50%  
 CL - clay with liquid limit < 50%  
 OL - organic silt or organic clay with liquid limit < 50%  
 MH - silt of high plasticity, elastic silt, liquid limit > 50%  
 CH - clay of high plasticity, fat clay, liquid limit > 50%  
 OH - organic clay or organic silt with liquid limit > 50%

GP - poorly-graded gravel  
 SP - poorly-graded sand  
 GM - silty gravel  
 GC - clayey gravel  
 SM - silty sand  
 SC - clayey sand  
 Pt - peat

**NOTES:** Terminate boring at 10 feet below ground surface.  
 Sample collected from 2-6 feet below ground surface at 1155.

**Chesapeake Environmental Management, Inc.**

42 North Main Street  
Bel Air, MD 21014



Logged by: Joseph Sawicki

Driller: Daniel Danko

Date: 6/15/2016

Job. No. / Client: Delta

Drilling Method: Direct Push

Sampling Method: Acetate Liner  
Grab Sample

Water Level:

Time:

Date:

Location: Montgomery County Airpark

Boring No.: SB-2

Sheet No.: 1 of 1

Drilling: Start Finish

1105 1135

Inches Driven/In. Recovered	Sample No.	PID (ppm)	Depth (Feet bgs)	USCS Log	Surface Conditions: Asphalt
48/24	SB-2 (2-6')	0.0	1	ML	0" - 6" - Asphalt/Base 6" - 4' - Yellow/Brown SILT, trace Clay, dense, dry.
		0.0	2		
		0.0	3		
		0.0	4		
48/36		0.0	5	ML	4' - 8' - Red/Brown SILT, trace Clay, trace fine Sand, dense, dry.
		0.0	6		
		0.0	7		
		0.0	8		
24/24		0.0	9	ML	8' - 10' - Red/Brown SILT, trace Clay, trace fine Sand; 1cm black bands present.
		0.0	10		
			11		End PID Screening
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

**LEGEND:**  
 bgs - below ground surface  
 PID - Photo Ionization Detector  
 USCS - Unified Soil Classification System  
 ppm - parts per million  
**trace - 1 to 10% soil type**  
**little - 10 to 20% soil type**  
**some - 20 to 35% soil type**

**USCS Group Symbols:**  
 GW - well graded gravel, fine to coarse gravel  
 SW - well graded sand, fine to coarse sand  
 ML - silt with liquid limit < 50%  
 CL - clay with liquid limit < 50%  
 OL - organic silt or organic clay with liquid limit < 50%  
 MH - silt of high plasticity, elastic silt, liquid limit > 50%  
 CH - clay of high plasticity, fat clay, liquid limit > 50%  
 OH - organic clay or organic silt with liquid limit > 50%

GP - poorly-graded gravel  
 SP - poorly-graded sand  
 GM - silty gravel  
 GC - clayey gravel  
 SM - silty sand  
 SC - clayey sand  
 Pt - peat

**NOTES:** Terminate boring at 10 feet below ground surface.  
 Sample collected from 2-6 feet below ground surface at 1120.

**Chesapeake Environmental Management, Inc.**

42 North Main Street  
Bel Air, MD 21014



Logged by: Joseph Sawicki

Driller: Daniel Danko

Date: 6/15/2016

Job. No. / Client: Delta

Drilling Method: Direct Push

Sampling Method: Acetate Liner  
Grab Sample

Water Level:

Time:

Date:

Location: Montgomery County Airpark

Boring No.: SB-3

Sheet No.: 1 of 1

Drilling: Start Finish

1350 1410

Inches Driven/In. Recovered	Sample No.	PID (ppm)	Depth (Feet bgs)	USCS Log	Surface Conditions: Asphalt
48/36	SB-3 (2-6')	0.0	1	ML	0" - 6" - Asphalt/Base
		0.0	2		6" - 4' - Yellow/Brown SILT, some fine to medium Sand, trace Clay, dense, dry.
		0.0	3		
		0.0	4		
48/36		0.0	5	ML	4' - 8' - Red/Brown SILT, trace Clay, trace fine to medium Sand, dense, dry.
		0.0	6		
		0.0	7		
		0.0	8		
24/24		0.0	9	ML	8' - 10' - Red/Brown SILT, trace Clay, trace fine to medium Sand, dense, dry.
		0.0	10		
			11		End PID Screening
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

**LEGEND:**  
 bgs - below ground surface  
 PID - Photo Ionization Detector  
 USCS - Unified Soil Classification System  
 ppm - parts per million  
**trace - 1 to 10% soil type**  
**little - 10 to 20% soil type**  
**some - 20 to 35% soil type**

**USCS Group Symbols:**  
 GW - well graded gravel, fine to coarse gravel  
 SW - well graded sand, fine to coarse sand  
 ML - silt with liquid limit < 50%  
 CL - clay with liquid limit < 50%  
 OL - organic silt or organic clay with liquid limit <50%  
 MH - silt of high plasticity, elastic silt, liquid limit >50%  
 CH - clay of high plasticity, fat clay, liquid limit >50%  
 OH - organic clay or organic silt with liquid limit >50%

GP- poorly-graded gravel  
 SP- poorly-graded sand  
 GM- silty gravel  
 GC- clayey gravel  
 SM- silty sand  
 SC- clayey sand  
 Pt- peat

**NOTES:** Terminate boring at 10 feet below ground surface.  
 Sample collected from 2-6 feet below ground surface at 1400.

**Chesapeake Environmental Management, Inc.**

42 North Main Street  
Bel Air, MD 21014



Logged by: Joseph Sawicki

Driller: Daniel Danko

Date: 6/15/2016

Job. No. / Client: Delta

Drilling Method: Direct Push

Sampling Method: Acetate Liner  
Grab Sample

Water Level:

Time:

Date:

Location: Montgomery County Airpark

Boring No.: SB-4

Sheet No.: 1 of 1

Drilling: Start Finish

0915 1000

Inches Driven/In. Recovered	Sample No.	PID (ppm)	Depth (Feet bgs)	USCS Log	Surface Conditions: Asphalt
48/36	SB-4 (2-6')	0.0	1	ML	0" - 3" - Topsoil, Yellow/Brown SILT with roots/grass, dry, medium dense. 3" - 4' - Yellow/Brown SILT, trace fine to medium Sand, trace Clay, dry, medium dense.
		0.1	2		
		0.1	3		
		0.1	4		
48/48		0.1	5	ML	4' - 7' - Yellow/Brown SILT, trace fine to medium Sand, trace Clay, dry, medium dense.
		0.1	6		
		0.0	7		
		0.0	8	ML	7' - 8' - Yellow/Brown SILT, trace fine to medium Sand, trace Clay, dry, dense.
24/24		0.0	9	ML	8' - 9' - Yellow/Brown SILT, trace fine to medium Sand, trace Gray Clay (moddled), dry, dense.
		0.0	10	ML	9' - 10' - Brown SILT, little fine Sand, trace Clay, dense, dry.
			11		End PID Screening
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

**LEGEND:**  
 bgs - below ground surface  
 PID - Photo Ionization Detector  
 USCS - Unified Soil Classification System  
 ppm - parts per million  
**trace - 1 to 10% soil type**  
**little - 10 to 20% soil type**  
**some - 20 to 35% soil type**

**USCS Group Symbols:**  
 GW - well graded gravel, fine to coarse gravel  
 SW - well graded sand, fine to coarse sand  
 ML - silt with liquid limit < 50%  
 CL - clay with liquid limit < 50%  
 OL - organic silt or organic clay with liquid limit <50%  
 MH - silt of high plasticity, elastic silt, liquid limit >50%  
 CH - clay of high plasticity, fat clay, liquid limit >50%  
 OH - organic clay or organic silt with liquid limit >50%

GP - poorly-graded gravel  
 SP - poorly-graded sand  
 GM - silty gravel  
 GC - clayey gravel  
 SM - silty sand  
 SC - clayey sand  
 Pt - peat

**NOTES:** Terminate boring at 10 feet below ground surface.  
 Sample collected from 2-6 feet below ground surface at 0930.

**Chesapeake Environmental Management, Inc.**

42 North Main Street  
Bel Air, MD 21014



Logged by: Joseph Sawicki

Driller: Daniel Danko

Date: 6/15/2016

Job. No. / Client: Delta

Drilling Method: Direct Push

Sampling Method: Acetate Liner  
Grab Sample

Water Level:

Time:

Date:

Location: Montgomery County Airpark

Boring No.: SB-5

Sheet No.: 1 of 1

Drilling: Start Finish

1035 1055

Inches Driven/In. Recovered	Sample No.	PID (ppm)	Depth (Feet bgs)	USCS Log	Surface Conditions: Asphalt
48/36	SB-5 (2-6')	0.0	1	ML	0" - 6" - Asphalt/Base 6" - 4' - Yellow/Brown SILT, trace Clay, dry, dense.
		0.0	2		
		0.0	3		
		0.0	4		
48/48		0.0	5	ML	4' - 8' - Yellow/Brown SILT, some Clay, dry, dense.
		0.0	6		
		0.0	7		
		0.0	8		
24/24		0.0	9	ML	8' - 9' - Yellow/Brown SILT, some Clay, dry, dense.
		0.0	10	ML	9' - 10' - Yellow/Brown SILT, some Clay, some fine to medium Sand, dry, dense.
			11		End PID Screening
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

**LEGEND:**  
 bgs - below ground surface  
 PID - Photo Ionization Detector  
 USCS - Unified Soil Classification System  
 ppm - parts per million  
**trace - 1 to 10% soil type**  
**little - 10 to 20% soil type**  
**some - 20 to 35% soil type**

**USCS Group Symbols:**  
 GW - well graded gravel, fine to coarse gravel  
 SW - well graded sand, fine to coarse sand  
 ML - silt with liquid limit < 50%  
 CL - clay with liquid limit < 50%  
 OL - organic silt or organic clay with liquid limit < 50%  
 MH - silt of high plasticity, elastic silt, liquid limit > 50%  
 CH - clay of high plasticity, fat clay, liquid limit > 50%  
 OH - organic clay or organic silt with liquid limit > 50%

GP - poorly-graded gravel  
 SP - poorly-graded sand  
 GM - silty gravel  
 GC - clayey gravel  
 SM - silty sand  
 SC - clayey sand  
 Pt - peat

**NOTES:** Terminate boring at 10 feet below ground surface.  
 Sample collected from 2-6 feet below ground surface at 1045.

**Chesapeake Environmental Management, Inc.**

42 North Main Street  
Bel Air, MD 21014



Logged by: Joseph Sawicki

Driller: Daniel Danko

Date: 6/15/2016

Job. No. / Client: Delta

Drilling Method: Direct Push

Sampling Method: Acetate Liner  
Grab Sample

Water Level:

Time:

Date:

Location: Montgomery County Airpark

Boring No.: SB-6

Sheet No.: 1 of 1

Drilling: Start Finish

1005 1030

Inches Driven/In. Recovered	Sample No.	PID (ppm)	Depth (Feet bgs)	USCS Log	Surface Conditions: Asphalt
48/12		0.0	1	ML	0" - 12" - Asphalt/Base 12" - 4' - NO RECOVERY
			2		
			3		
			4		
48/48	SB-6 (4-6')	0.0	5	ML	4' - 6' - Light Brown SILT, some medium to coarse Sand, trace Clay, dry, medium dense.
		0.0	6		
24/24		0.0	7	ML	6' - 8' - Red/Brown SILT, trace fine Sand, trace Clay, dry, dense; 1mm black bands present.
		0.0	8		
		0.0	9	ML	8' - 10' - Red/Brown SILT, some Clay, dry, dense; black band present.
		0.0	10		
			11		End PID Screening
			12		
			13		
			14		
			15		
			16		
			17		
			18		
			19		
			20		

**LEGEND:**  
 bgs - below ground surface  
 PID - Photo Ionization Detector  
 USCS - Unified Soil Classification System  
 ppm - parts per million  
**trace - 1 to 10% soil type**  
**little - 10 to 20% soil type**  
**some - 20 to 35% soil type**

**USCS Group Symbols:**  
 GW - well graded gravel, fine to coarse gravel  
 SW - well graded sand, fine to coarse sand  
 ML - silt with liquid limit < 50%  
 CL - clay with liquid limit < 50%  
 OL - organic silt or organic clay with liquid limit < 50%  
 MH - silt of high plasticity, elastic silt, liquid limit > 50%  
 CH - clay of high plasticity, fat clay, liquid limit > 50%  
 OH - organic clay or organic silt with liquid limit > 50%

GP - poorly-graded gravel  
 SP - poorly-graded sand  
 GM - silty gravel  
 GC - clayey gravel  
 SM - silty sand  
 SC - clayey sand  
 Pt - peat

**NOTES:** Terminate boring at 10 feet below ground surface.  
 Sample collected from 4-6 feet below ground surface at 1015.



***APPENDIX D***

***SITE PHOTOGRAPHS***



Photo 01 - Overview of Site



Photo 02 - SB-1 Location



Photo 03 - SB-2 Location



Photo 04 - SB-3 Location



Photo 05 - SB-4 Location



Photo 06 - SB-5 Location



Photo 07 - SB-6 Location

***APPENDIX E***

***LABORATORY ANALYTICAL REPORT***

27 June 2016

Kevin DiMartino  
Chesapeake Environmental Management  
42 N Main St  
Bel Air, MD 21014  
RE: MOCO AIRPARK

Enclosed are the results of analyses for samples received by the laboratory on 06/15/16 16:30.

A more detailed report format is available upon request, which lists the accreditation status for all analytical methods performed.

Please visit our website at [www.mdspectral.com](http://www.mdspectral.com) for a complete listing of our accreditations.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Sam Hamner  
President

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002

Project Manager: Kevin DiMartino

Reported:

06/27/16 16:45

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 (2-6')		6061512-01	Soil	06/15/16 11:55	06/15/16 16:30
SB-2 (2-6')		6061512-02	Soil	06/15/16 11:20	06/15/16 16:30
SB-3 (2-6')		6061512-03	Soil	06/15/16 14:00	06/15/16 16:30
SB-4 (2-6')		6061512-04	Soil	06/15/16 09:30	06/15/16 16:30
SB-5 (2-6')		6061512-05	Soil	06/15/16 10:45	06/15/16 16:30
SB-6 (4-6')		6061512-06	Soil	06/15/16 10:45	06/15/16 16:30
TRIP BLANK 06-15-16		6061512-07	Nonpotable Water	06/15/16 16:30	06/15/16 16:30



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

SB-1 (2-6')

6061512-01 (Soil)  
Sample Date: 06/15/16

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS)</b>									
Acetone	ND		ug/kg dry	12.2	12.2	1	06/16/16	06/16/16 17:12	GM
tert-Amyl alcohol (TAA)	ND		ug/kg dry	61.0	61.0	1	06/16/16	06/16/16 17:12	GM
tert-Amyl methyl ether (TAME)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Benzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Bromobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Bromochloromethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Bromodichloromethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Bromoform	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Bromomethane	ND		ug/kg dry	6.1	6.1	1	06/16/16	06/16/16 17:12	GM
tert-Butanol (TBA)	ND		ug/kg dry	61.0	61.0	1	06/16/16	06/16/16 17:12	GM
2-Butanone (MEK)	ND		ug/kg dry	12.2	12.2	1	06/16/16	06/16/16 17:12	GM
n-Butylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
sec-Butylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
tert-Butylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Carbon disulfide	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Carbon tetrachloride	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Chlorobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Chloroethane	ND		ug/kg dry	6.1	6.1	1	06/16/16	06/16/16 17:12	GM
Chloroform	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Chloromethane	ND		ug/kg dry	6.1	6.1	1	06/16/16	06/16/16 17:12	GM
2-Chlorotoluene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
4-Chlorotoluene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,2-Dibromo-3-chloropropane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Dibromochloromethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,2-Dibromoethane (EDB)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Dibromomethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,2-Dichlorobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,3-Dichlorobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,4-Dichlorobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Dichlorodifluoromethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,1-Dichloroethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,2-Dichloroethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,1-Dichloroethene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
cis-1,2-Dichloroethene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM



Sam Hamner, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

SB-1 (2-6')

6061512-01 (Soil)  
Sample Date: 06/15/16

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
trans-1,2-Dichloroethene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Dichlorofluoromethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,2-Dichloropropane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,3-Dichloropropane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
2,2-Dichloropropane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,1-Dichloropropene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
cis-1,3-Dichloropropene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
trans-1,3-Dichloropropene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Diisopropyl ether (DIPE)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Ethylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Hexachlorobutadiene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
2-Hexanone	ND		ug/kg dry	12.2	12.2	1	06/16/16	06/16/16 17:12	GM
Isopropylbenzene (Cumene)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
4-Isopropyltoluene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
4-Methyl-2-pentanone	ND		ug/kg dry	12.2	12.2	1	06/16/16	06/16/16 17:12	GM
<b>Methylene chloride</b>	<b>28.5</b>	L	ug/kg dry	24.4	24.4	1	06/16/16	06/16/16 17:12	GM
Naphthalene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
n-Propylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Styrene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,1,1,2-Tetrachloroethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,1,2,2-Tetrachloroethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Tetrachloroethene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Toluene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,2,3-Trichlorobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,2,4-Trichlorobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,1,1-Trichloroethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,1,2-Trichloroethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Trichloroethene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Trichlorofluoromethane (Freon 11)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,2,3-Trichloropropane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,2,4-Trimethylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
1,3,5-Trimethylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-1 (2-6')**

**6061512-01 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
Vinyl chloride	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
o-Xylene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
m- & p-Xylenes	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 17:12	GM
Surrogate: 1,2-Dichloroethane-d4		70-130		111 %	06/16/16		06/16/16 17:12		
Surrogate: Toluene-d8		75-120		101 %	06/16/16		06/16/16 17:12		
Surrogate: 4-Bromofluorobenzene		65-120		80 %	06/16/16		06/16/16 17:12		
<b>SEMIVOLATILE ORGANICS BY EPA METHOD 3540/8270D (GC/MS)</b>									
Acenaphthene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Acenaphthylene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Anthracene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Benzo[a]anthracene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Benzo[b]fluoranthene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Benzo[k]fluoranthene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Benzo[ghi]perylene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Benzo[a]pyrene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
4-Bromophenyl phenyl ether	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Butyl benzyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Carbazole	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
4-Chloro-3-methylphenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
4-Chloroaniline	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Bis(2-chloroethoxy)methane	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Bis(2-chloroethyl) ether	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
2,2'-Oxybis(1-Chloropropane)	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
2-Chloronaphthalene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
2-Chlorophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
4-Chlorophenyl phenyl ether	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Chrysene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Di-n-butyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Di-n-octyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Dibenzofuran	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
1,2-Dichlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
1,3-Dichlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Sam Hamner, President

**Analytical Results**

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-1 (2-6')**

**6061512-01 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>SEMIVOLATILE ORGANICS BY EPA METHOD 3540/8270D (GC/MS) (continued)</b>									
1,4-Dichlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
3,3-Dichlorobenzidine	ND		ug/kg dry	610	610	1	06/20/16	06/23/16 13:23	WB
2,4-Dichlorophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Diethyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Dimethyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
2,4-Dimethylphenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
2-Methyl-4,6-dinitrophenol	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 13:23	WB
2,4-Dinitrophenol	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 13:23	WB
2,4-Dinitrotoluene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
2,6-Dinitrotoluene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Bis(2-ethylhexyl) phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Fluoranthene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Fluorene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Hexachlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Hexachlorobutadiene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Hexachlorocyclopentadiene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Hexachloroethane	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Isophorone	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
2-Methylnaphthalene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
3&4-Methylphenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
2-Methylphenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
N-Nitroso-di-n-propylamine	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
N-Nitrosodiphenylamine	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Naphthalene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
2-Nitroaniline	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 13:23	WB
3-Nitroaniline	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 13:23	WB
4-Nitroaniline	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 13:23	WB
Nitrobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
2-Nitrophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
4-Nitrophenol	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 13:23	WB
Pentachlorophenol	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 13:23	WB
Phenanthrene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
Phenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-1 (2-6')**

**6061512-01 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>SEMIVOLATILE ORGANICS BY EPA METHOD 3540/8270D (GC/MS) (continued)</b>									
Pyrene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
1,2,4-Trichlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
2,4,5-Trichlorophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
2,4,6-Trichlorophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 13:23	WB
<i>Surrogate: 2-Fluorophenol</i>		50.4-106.9		68 %	06/20/16		06/23/16 13:23		
<i>Surrogate: Phenol-d5</i>		57.1-102.9		67 %	06/20/16		06/23/16 13:23		
<i>Surrogate: Nitrobenzene-d5</i>		65.4-105.8		68 %	06/20/16		06/23/16 13:23		
<i>Surrogate: 2,4,6-Tribromophenol</i>		40.2-120.7		93 %	06/20/16		06/23/16 13:23		
<i>Surrogate: 2-Fluorobiphenyl</i>		59.7-107.6		81 %	06/20/16		06/23/16 13:23		
<i>Surrogate: Terphenyl-d14</i>		70-131		84 %	06/20/16		06/23/16 13:23		
<b>GASOLINE RANGE ORGANICS BY EPA 5030/8015B</b>									
Gasoline-Range Organics	ND		mg/kg dry	0.12	0.12	1	06/20/16	06/20/16 15:02	GM
<i>Surrogate: a,a,a-Trifluorotoluene</i>		85-115		100 %	06/20/16		06/20/16 15:02		
<b>DIESEL RANGE ORGANICS BY EPA 3540/8015B</b>									
<b>Diesel-Range Organics</b>	<b>14.4</b>		mg/kg dry	9.8	9.8	1	06/16/16	06/17/16 19:25	CMK
<i>Surrogate: o-Terphenyl</i>		70-130		93 %	06/16/16		06/17/16 19:25		
<b>PERCENT SOLIDS BY ASTM D2216-05</b>									
<b>Percent Solids</b>	<b>82</b>		%			1	06/16/16	06/17/16 10:15	AB
<b>POLYCHLORINATED BIPHENYLS BY EPA 3540/8082 (GC/ECD)</b>									
Aroclor-1016	ND		ug/kg dry	101		1	06/16/16	06/17/16 23:35	CMK
Aroclor-1221	ND		ug/kg dry	207		1	06/16/16	06/17/16 23:35	CMK
Aroclor-1232	ND		ug/kg dry	101		1	06/16/16	06/17/16 23:35	CMK
Aroclor-1242	ND		ug/kg dry	101		1	06/16/16	06/17/16 23:35	CMK
Aroclor-1248	ND		ug/kg dry	101		1	06/16/16	06/17/16 23:35	CMK
Aroclor-1254	ND		ug/kg dry	101		1	06/16/16	06/17/16 23:35	CMK
Aroclor-1260	ND		ug/kg dry	101		1	06/16/16	06/17/16 23:35	CMK
<i>Surrogate: Tetrachloro-m-xylene</i>		50-150		87 %	06/16/16		06/17/16 23:35		
<i>Surrogate: Decachlorobiphenyl</i>		50-150		107 %	06/16/16		06/17/16 23:35		



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-1 (2-6')**

**6061512-01 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
---------	--------	-------	-------	-----------------------	--------------------------	----------	----------	----------	---------

**Wet Chemistry Performed at Enviro-Chem**

% Solids	82.5		%	1.00	1.00	1	06/22/16	06/22/16 15:20	NFK
----------	------	--	---	------	------	---	----------	----------------	-----

**Metals EPA 6020 Performed at Enviro-Chem**

Silver	ND		mg/kg dry	0.433	0.433	2	06/21/16	06/23/16 13:05	MAP
Arsenic	1.51		mg/kg dry	0.433	0.433	2	06/21/16	06/23/16 13:05	MAP
Barium	5.04		mg/kg dry	0.433	0.433	2	06/21/16	06/23/16 13:05	MAP
Cadmium	ND		mg/kg dry	0.433	0.433	2	06/21/16	06/23/16 13:05	MAP
Chromium	11.7		mg/kg dry	0.433	0.433	2	06/21/16	06/23/16 13:05	MAP
Mercury	ND		mg/kg dry	0.0866	0.0866	2	06/21/16	06/23/16 13:05	MAP
Lead	15.1		mg/kg dry	0.433	0.433	2	06/21/16	06/23/16 13:05	MAP
Selenium	3.79		mg/kg dry	0.433	0.433	2	06/21/16	06/23/16 13:05	MAP



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-2 (2-6')**

**6061512-02 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS)</b>									
Acetone	ND		ug/kg dry	11.5	11.5	1	06/16/16	06/16/16 17:43	GM
tert-Amyl alcohol (TAA)	ND		ug/kg dry	57.5	57.5	1	06/16/16	06/16/16 17:43	GM
tert-Amyl methyl ether (TAME)	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Benzene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Bromobenzene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Bromochloromethane	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Bromodichloromethane	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Bromoform	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Bromomethane	ND		ug/kg dry	5.7	5.7	1	06/16/16	06/16/16 17:43	GM
tert-Butanol (TBA)	ND		ug/kg dry	57.5	57.5	1	06/16/16	06/16/16 17:43	GM
2-Butanone (MEK)	ND		ug/kg dry	11.5	11.5	1	06/16/16	06/16/16 17:43	GM
n-Butylbenzene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
sec-Butylbenzene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
tert-Butylbenzene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Carbon disulfide	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Carbon tetrachloride	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Chlorobenzene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Chloroethane	ND		ug/kg dry	5.7	5.7	1	06/16/16	06/16/16 17:43	GM
Chloroform	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Chloromethane	ND		ug/kg dry	5.7	5.7	1	06/16/16	06/16/16 17:43	GM
2-Chlorotoluene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
4-Chlorotoluene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,2-Dibromo-3-chloropropane	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Dibromochloromethane	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,2-Dibromoethane (EDB)	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Dibromomethane	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,2-Dichlorobenzene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,3-Dichlorobenzene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,4-Dichlorobenzene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Dichlorodifluoromethane	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,1-Dichloroethane	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,2-Dichloroethane	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,1-Dichloroethene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
cis-1,2-Dichloroethene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Sam Hamner, President

**Analytical Results**

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-2 (2-6')**

**6061512-02 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
trans-1,2-Dichloroethene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Dichlorofluoromethane	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,2-Dichloropropane	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,3-Dichloropropane	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
2,2-Dichloropropane	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,1-Dichloropropene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
cis-1,3-Dichloropropene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
trans-1,3-Dichloropropene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Diisopropyl ether (DIPE)	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Ethylbenzene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Hexachlorobutadiene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
2-Hexanone	ND		ug/kg dry	11.5	11.5	1	06/16/16	06/16/16 17:43	GM
Isopropylbenzene (Cumene)	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
4-Isopropyltoluene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
4-Methyl-2-pentanone	ND		ug/kg dry	11.5	11.5	1	06/16/16	06/16/16 17:43	GM
Methylene chloride	ND		ug/kg dry	23.0	23.0	1	06/16/16	06/16/16 17:43	GM
Naphthalene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
n-Propylbenzene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Styrene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,1,1,2-Tetrachloroethane	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,1,2,2-Tetrachloroethane	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Tetrachloroethene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Toluene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,2,3-Trichlorobenzene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,2,4-Trichlorobenzene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,1,1-Trichloroethane	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,1,2-Trichloroethane	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Trichloroethene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Trichlorofluoromethane (Freon 11)	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,2,3-Trichloropropane	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,2,4-Trimethylbenzene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
1,3,5-Trimethylbenzene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-2 (2-6')**

**6061512-02 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
Vinyl chloride	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
o-Xylene	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
m- & p-Xylenes	ND		ug/kg dry	5.7	2.3	1	06/16/16	06/16/16 17:43	GM
Surrogate: 1,2-Dichloroethane-d4		70-130		113 %	06/16/16		06/16/16 17:43		
Surrogate: Toluene-d8		75-120		100 %	06/16/16		06/16/16 17:43		
Surrogate: 4-Bromofluorobenzene		65-120		81 %	06/16/16		06/16/16 17:43		
<b>SEMIVOLATILE ORGANICS BY EPA METHOD 3540/8270D (GC/MS)</b>									
Acenaphthene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Acenaphthylene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Anthracene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Benzo[a]anthracene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Benzo[b]fluoranthene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Benzo[k]fluoranthene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Benzo[ghi]perylene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Benzo[a]pyrene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
4-Bromophenyl phenyl ether	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Butyl benzyl phthalate	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Carbazole	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
4-Chloro-3-methylphenol	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
4-Chloroaniline	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Bis(2-chloroethoxy)methane	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Bis(2-chloroethyl) ether	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
2,2'-Oxybis(1-Chloropropane)	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
2-Chloronaphthalene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
2-Chlorophenol	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
4-Chlorophenyl phenyl ether	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Chrysene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Di-n-butyl phthalate	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Di-n-octyl phthalate	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Dibenzofuran	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
1,2-Dichlorobenzene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
1,3-Dichlorobenzene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Sam Hamner, President

**Analytical Results**

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-2 (2-6')**

**6061512-02 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>SEMIVOLATILE ORGANICS BY EPA METHOD 3540/8270D (GC/MS) (continued)</b>									
1,4-Dichlorobenzene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
3,3-Dichlorobenzidine	ND		ug/kg dry	570	570	1	06/20/16	06/23/16 14:08	WB
2,4-Dichlorophenol	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Diethyl phthalate	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Dimethyl phthalate	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
2,4-Dimethylphenol	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
2-Methyl-4,6-dinitrophenol	ND		ug/kg dry	1440	1440	1	06/20/16	06/23/16 14:08	WB
2,4-Dinitrophenol	ND		ug/kg dry	1440	1440	1	06/20/16	06/23/16 14:08	WB
2,4-Dinitrotoluene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
2,6-Dinitrotoluene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Bis(2-ethylhexyl) phthalate	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Fluoranthene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Fluorene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Hexachlorobenzene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Hexachlorobutadiene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Hexachlorocyclopentadiene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Hexachloroethane	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Isophorone	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
2-Methylnaphthalene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
3&4-Methylphenol	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
2-Methylphenol	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
N-Nitroso-di-n-propylamine	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
N-Nitrosodiphenylamine	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Naphthalene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
2-Nitroaniline	ND		ug/kg dry	1440	1440	1	06/20/16	06/23/16 14:08	WB
3-Nitroaniline	ND		ug/kg dry	1440	1440	1	06/20/16	06/23/16 14:08	WB
4-Nitroaniline	ND		ug/kg dry	1440	1440	1	06/20/16	06/23/16 14:08	WB
Nitrobenzene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
2-Nitrophenol	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
4-Nitrophenol	ND		ug/kg dry	1440	1440	1	06/20/16	06/23/16 14:08	WB
Pentachlorophenol	ND		ug/kg dry	1440	1440	1	06/20/16	06/23/16 14:08	WB
Phenanthrene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Phenol	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



**Analytical Results**

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-2 (2-6')**

**6061512-02 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>SEMIVOLATILE ORGANICS BY EPA METHOD 3540/8270D (GC/MS) (continued)</b>									
Pyrene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
1,2,4-Trichlorobenzene	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
2,4,5-Trichlorophenol	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
2,4,6-Trichlorophenol	ND		ug/kg dry	290	110	1	06/20/16	06/23/16 14:08	WB
Surrogate: 2-Fluorophenol		50.4-106.9		66 %	06/20/16		06/23/16 14:08		
Surrogate: Phenol-d5		57.1-102.9		64 %	06/20/16		06/23/16 14:08		
Surrogate: Nitrobenzene-d5		65.4-105.8		65 %	06/20/16		06/23/16 14:08		S-BN
Surrogate: 2,4,6-Tribromophenol		40.2-120.7		88 %	06/20/16		06/23/16 14:08		
Surrogate: 2-Fluorobiphenyl		59.7-107.6		77 %	06/20/16		06/23/16 14:08		
Surrogate: Terphenyl-d14		70-131		85 %	06/20/16		06/23/16 14:08		
<b>GASOLINE RANGE ORGANICS BY EPA 5030/8015B</b>									
Gasoline-Range Organics	ND		mg/kg dry	0.11	0.11	1	06/20/16	06/20/16 15:40	GM
Surrogate: a,a,a-Trifluorotoluene		85-115		100 %	06/20/16		06/20/16 15:40		
<b>DIESEL RANGE ORGANICS BY EPA 3540/8015B</b>									
Diesel-Range Organics	ND		mg/kg dry	9.2	9.2	1	06/16/16	06/17/16 19:52	CMK
Surrogate: o-Terphenyl		70-130		87 %	06/16/16		06/17/16 19:52		
<b>PERCENT SOLIDS BY ASTM D2216-05</b>									
Percent Solids	87		%			1	06/16/16	06/17/16 10:15	AB
<b>POLYCHLORINATED BIPHENYLS BY EPA 3540/8082 (GC/ECD)</b>									
Aroclor-1016	ND		ug/kg dry	95.4		1	06/16/16	06/18/16 00:06	CMK
Aroclor-1221	ND		ug/kg dry	195		1	06/16/16	06/18/16 00:06	CMK
Aroclor-1232	ND		ug/kg dry	95.4		1	06/16/16	06/18/16 00:06	CMK
Aroclor-1242	ND		ug/kg dry	95.4		1	06/16/16	06/18/16 00:06	CMK
Aroclor-1248	ND		ug/kg dry	95.4		1	06/16/16	06/18/16 00:06	CMK
Aroclor-1254	ND		ug/kg dry	95.4		1	06/16/16	06/18/16 00:06	CMK
Aroclor-1260	ND		ug/kg dry	95.4		1	06/16/16	06/18/16 00:06	CMK
Surrogate: Tetrachloro-m-xylene		50-150		86 %	06/16/16		06/18/16 00:06		
Surrogate: Decachlorobiphenyl		50-150		103 %	06/16/16		06/18/16 00:06		



Sam Hamner, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002

Project Manager: Kevin DiMartino

Reported:

06/27/16 16:45

**SB-2 (2-6')**

**6061512-02 (Soil)**

**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
---------	--------	-------	-------	--------------------------	-----------------------------	----------	----------	----------	---------

**Wet Chemistry Performed at Enviro-Chem**

% Solids	82.7		%	1.00	1.00	1	06/22/16	06/22/16 15:20	NFK
----------	------	--	---	------	------	---	----------	----------------	-----

**Metals EPA 6020 Performed at Enviro-Chem**

Silver	ND		mg/kg dry	0.484	0.484	2	06/21/16	06/23/16 13:09	MAP
Arsenic	2.62		mg/kg dry	0.484	0.484	2	06/21/16	06/23/16 13:09	MAP
Barium	7.04		mg/kg dry	0.484	0.484	2	06/21/16	06/23/16 13:09	MAP
Cadmium	ND		mg/kg dry	0.484	0.484	2	06/21/16	06/23/16 13:09	MAP
Chromium	15.2		mg/kg dry	0.484	0.484	2	06/21/16	06/23/16 13:09	MAP
Mercury	ND		mg/kg dry	0.0967	0.0967	2	06/21/16	06/23/16 13:09	MAP
Lead	13.4		mg/kg dry	0.484	0.484	2	06/21/16	06/23/16 13:09	MAP
Selenium	3.21		mg/kg dry	0.484	0.484	2	06/21/16	06/23/16 13:09	MAP



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-3 (2-6')**

**6061512-03 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS)</b>									
Acetone	ND		ug/kg dry	12.0	12.0	1	06/16/16	06/16/16 18:14	GM
tert-Amyl alcohol (TAA)	ND		ug/kg dry	60.2	60.2	1	06/16/16	06/16/16 18:14	GM
tert-Amyl methyl ether (TAME)	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Benzene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Bromobenzene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Bromochloromethane	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Bromodichloromethane	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Bromoform	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Bromomethane	ND		ug/kg dry	6.0	6.0	1	06/16/16	06/16/16 18:14	GM
tert-Butanol (TBA)	ND		ug/kg dry	60.2	60.2	1	06/16/16	06/16/16 18:14	GM
2-Butanone (MEK)	ND		ug/kg dry	12.0	12.0	1	06/16/16	06/16/16 18:14	GM
n-Butylbenzene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
sec-Butylbenzene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
tert-Butylbenzene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Carbon disulfide	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Carbon tetrachloride	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Chlorobenzene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Chloroethane	ND		ug/kg dry	6.0	6.0	1	06/16/16	06/16/16 18:14	GM
Chloroform	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Chloromethane	ND		ug/kg dry	6.0	6.0	1	06/16/16	06/16/16 18:14	GM
2-Chlorotoluene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
4-Chlorotoluene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,2-Dibromo-3-chloropropane	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Dibromochloromethane	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,2-Dibromoethane (EDB)	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Dibromomethane	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,2-Dichlorobenzene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,3-Dichlorobenzene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,4-Dichlorobenzene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Dichlorodifluoromethane	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,1-Dichloroethane	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,2-Dichloroethane	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,1-Dichloroethene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
cis-1,2-Dichloroethene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sam Hamner, President

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-3 (2-6')**

**6061512-03 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
trans-1,2-Dichloroethene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Dichlorofluoromethane	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,2-Dichloropropane	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,3-Dichloropropane	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
2,2-Dichloropropane	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,1-Dichloropropene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
cis-1,3-Dichloropropene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
trans-1,3-Dichloropropene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Diisopropyl ether (DIPE)	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Ethylbenzene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Hexachlorobutadiene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
2-Hexanone	ND		ug/kg dry	12.0	12.0	1	06/16/16	06/16/16 18:14	GM
Isopropylbenzene (Cumene)	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
4-Isopropyltoluene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
4-Methyl-2-pentanone	ND		ug/kg dry	12.0	12.0	1	06/16/16	06/16/16 18:14	GM
Methylene chloride	ND		ug/kg dry	24.1	24.1	1	06/16/16	06/16/16 18:14	GM
Naphthalene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
n-Propylbenzene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Styrene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,1,1,2-Tetrachloroethane	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,1,2,2-Tetrachloroethane	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Tetrachloroethene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Toluene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,2,3-Trichlorobenzene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,2,4-Trichlorobenzene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,1,1-Trichloroethane	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,1,2-Trichloroethane	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Trichloroethene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
Trichlorofluoromethane (Freon 11)	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,2,3-Trichloropropane	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,2,4-Trimethylbenzene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
1,3,5-Trimethylbenzene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-3 (2-6')**

**6061512-03 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
Vinyl chloride	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
o-Xylene	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
m- & p-Xylenes	ND		ug/kg dry	6.0	2.4	1	06/16/16	06/16/16 18:14	GM
<i>Surrogate: 1,2-Dichloroethane-d4</i>			70-130	106 %	06/16/16		06/16/16 18:14		
<i>Surrogate: Toluene-d8</i>			75-120	99 %	06/16/16		06/16/16 18:14		
<i>Surrogate: 4-Bromofluorobenzene</i>			65-120	78 %	06/16/16		06/16/16 18:14		
<b>SEMIVOLATILE ORGANICS BY EPA METHOD 3540/8270D (GC/MS)</b>									
Acenaphthene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Acenaphthylene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Anthracene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Benzo[a]anthracene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Benzo[b]fluoranthene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Benzo[k]fluoranthene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Benzo[ghi]perylene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Benzo[a]pyrene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
4-Bromophenyl phenyl ether	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Butyl benzyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Carbazole	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
4-Chloro-3-methylphenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
4-Chloroaniline	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Bis(2-chloroethoxy)methane	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Bis(2-chloroethyl) ether	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
2,2'-Oxybis(1-Chloropropane)	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
2-Chloronaphthalene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
2-Chlorophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
4-Chlorophenyl phenyl ether	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Chrysene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Di-n-butyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Di-n-octyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Dibenzofuran	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
1,2-Dichlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
1,3-Dichlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-3 (2-6')**

**6061512-03 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>SEMIVOLATILE ORGANICS BY EPA METHOD 3540/8270D (GC/MS) (continued)</b>									
1,4-Dichlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
3,3-Dichlorobenzidine	ND		ug/kg dry	600	600	1	06/20/16	06/23/16 14:52	WB
2,4-Dichlorophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Diethyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Dimethyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
2,4-Dimethylphenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
2-Methyl-4,6-dinitrophenol	ND		ug/kg dry	1510	1510	1	06/20/16	06/23/16 14:52	WB
2,4-Dinitrophenol	ND		ug/kg dry	1510	1510	1	06/20/16	06/23/16 14:52	WB
2,4-Dinitrotoluene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
2,6-Dinitrotoluene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Bis(2-ethylhexyl) phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Fluoranthene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Fluorene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Hexachlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Hexachlorobutadiene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Hexachlorocyclopentadiene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Hexachloroethane	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Isophorone	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
2-Methylnaphthalene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
3&4-Methylphenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
2-Methylphenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
N-Nitroso-di-n-propylamine	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
N-Nitrosodiphenylamine	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Naphthalene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
2-Nitroaniline	ND		ug/kg dry	1510	1510	1	06/20/16	06/23/16 14:52	WB
3-Nitroaniline	ND		ug/kg dry	1510	1510	1	06/20/16	06/23/16 14:52	WB
4-Nitroaniline	ND		ug/kg dry	1510	1510	1	06/20/16	06/23/16 14:52	WB
Nitrobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
2-Nitrophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
4-Nitrophenol	ND		ug/kg dry	1510	1510	1	06/20/16	06/23/16 14:52	WB
Pentachlorophenol	ND		ug/kg dry	1510	1510	1	06/20/16	06/23/16 14:52	WB
Phenanthrene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Phenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-3 (2-6')**

**6061512-03 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>SEMIVOLATILE ORGANICS BY EPA METHOD 3540/8270D (GC/MS) (continued)</b>									
Pyrene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
1,2,4-Trichlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
2,4,5-Trichlorophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
2,4,6-Trichlorophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 14:52	WB
Surrogate: 2-Fluorophenol		50.4-106.9		70 %	06/20/16		06/23/16 14:52		
Surrogate: Phenol-d5		57.1-102.9		66 %	06/20/16		06/23/16 14:52		
Surrogate: Nitrobenzene-d5		65.4-105.8		66 %	06/20/16		06/23/16 14:52		
Surrogate: 2,4,6-Tribromophenol		40.2-120.7		92 %	06/20/16		06/23/16 14:52		
Surrogate: 2-Fluorobiphenyl		59.7-107.6		80 %	06/20/16		06/23/16 14:52		
Surrogate: Terphenyl-d14		70-131		86 %	06/20/16		06/23/16 14:52		
<b>GASOLINE RANGE ORGANICS BY EPA 5030/8015B</b>									
Gasoline-Range Organics	ND		mg/kg dry	0.12	0.12	1	06/20/16	06/20/16 16:19	GM
Surrogate: a,a,a-Trifluorotoluene		85-115		100 %	06/20/16		06/20/16 16:19		
<b>DIESEL RANGE ORGANICS BY EPA 3540/8015B</b>									
Diesel-Range Organics	ND		mg/kg dry	9.6	9.6	1	06/16/16	06/17/16 20:19	CMK
Surrogate: o-Terphenyl		70-130		83 %	06/16/16		06/17/16 20:19		
<b>PERCENT SOLIDS BY ASTM D2216-05</b>									
Percent Solids	83		%			1	06/16/16	06/17/16 10:15	AB
<b>POLYCHLORINATED BIPHENYLS BY EPA 3540/8082 (GC/ECD)</b>									
Aroclor-1016	ND		ug/kg dry	100		1	06/16/16	06/18/16 00:38	CMK
Aroclor-1221	ND		ug/kg dry	205		1	06/16/16	06/18/16 00:38	CMK
Aroclor-1232	ND		ug/kg dry	100		1	06/16/16	06/18/16 00:38	CMK
Aroclor-1242	ND		ug/kg dry	100		1	06/16/16	06/18/16 00:38	CMK
Aroclor-1248	ND		ug/kg dry	100		1	06/16/16	06/18/16 00:38	CMK
Aroclor-1254	ND		ug/kg dry	100		1	06/16/16	06/18/16 00:38	CMK
Aroclor-1260	ND		ug/kg dry	100		1	06/16/16	06/18/16 00:38	CMK
Surrogate: Tetrachloro-m-xylene		50-150		87 %	06/16/16		06/18/16 00:38		
Surrogate: Decachlorobiphenyl		50-150		105 %	06/16/16		06/18/16 00:38		



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sam Hamner, President

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-3 (2-6')**

**6061512-03 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>Wet Chemistry Performed at Enviro-Chem</b>									
<b>% Solids</b>	<b>84.4</b>		%	1.00	1.00	1	06/22/16	06/22/16 15:20	NFK
<b>Metals EPA 6020 Performed at Enviro-Chem</b>									
Silver	ND		mg/kg dry	0.416	0.416	2	06/21/16	06/23/16 13:13	MAP
<b>Arsenic</b>	<b>1.29</b>		mg/kg dry	0.416	0.416	2	06/21/16	06/23/16 13:13	MAP
<b>Barium</b>	<b>3.61</b>		mg/kg dry	0.416	0.416	2	06/21/16	06/23/16 13:13	MAP
Cadmium	ND		mg/kg dry	0.416	0.416	2	06/21/16	06/23/16 13:13	MAP
<b>Chromium</b>	<b>11.5</b>		mg/kg dry	0.416	0.416	2	06/21/16	06/23/16 13:13	MAP
Mercury	ND		mg/kg dry	0.0832	0.0832	2	06/21/16	06/23/16 13:13	MAP
<b>Lead</b>	<b>9.27</b>		mg/kg dry	0.416	0.416	2	06/21/16	06/23/16 13:13	MAP
<b>Selenium</b>	<b>3.15</b>		mg/kg dry	0.416	0.416	2	06/21/16	06/23/16 13:13	MAP



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-4 (2-6')**

**6061512-04 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS)</b>									
Acetone	ND		ug/kg dry	11.8	11.8	1	06/16/16	06/16/16 18:45	GM
tert-Amyl alcohol (TAA)	ND		ug/kg dry	58.8	58.8	1	06/16/16	06/16/16 18:45	GM
tert-Amyl methyl ether (TAME)	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Benzene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Bromobenzene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Bromochloromethane	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Bromodichloromethane	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Bromoform	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Bromomethane	ND		ug/kg dry	5.9	5.9	1	06/16/16	06/16/16 18:45	GM
tert-Butanol (TBA)	ND		ug/kg dry	58.8	58.8	1	06/16/16	06/16/16 18:45	GM
2-Butanone (MEK)	ND		ug/kg dry	11.8	11.8	1	06/16/16	06/16/16 18:45	GM
n-Butylbenzene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
sec-Butylbenzene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
tert-Butylbenzene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Carbon disulfide	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Carbon tetrachloride	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Chlorobenzene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Chloroethane	ND		ug/kg dry	5.9	5.9	1	06/16/16	06/16/16 18:45	GM
Chloroform	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Chloromethane	ND		ug/kg dry	5.9	5.9	1	06/16/16	06/16/16 18:45	GM
2-Chlorotoluene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
4-Chlorotoluene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,2-Dibromo-3-chloropropane	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Dibromochloromethane	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,2-Dibromoethane (EDB)	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Dibromomethane	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,2-Dichlorobenzene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,3-Dichlorobenzene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,4-Dichlorobenzene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Dichlorodifluoromethane	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,1-Dichloroethane	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,2-Dichloroethane	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,1-Dichloroethene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
cis-1,2-Dichloroethene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sam Hamner, President

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-4 (2-6')**

**6061512-04 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
trans-1,2-Dichloroethene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Dichlorofluoromethane	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,2-Dichloropropane	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,3-Dichloropropane	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
2,2-Dichloropropane	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,1-Dichloropropene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
cis-1,3-Dichloropropene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
trans-1,3-Dichloropropene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Diisopropyl ether (DIPE)	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Ethylbenzene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Hexachlorobutadiene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
2-Hexanone	ND		ug/kg dry	11.8	11.8	1	06/16/16	06/16/16 18:45	GM
Isopropylbenzene (Cumene)	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
4-Isopropyltoluene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
4-Methyl-2-pentanone	ND		ug/kg dry	11.8	11.8	1	06/16/16	06/16/16 18:45	GM
Methylene chloride	ND		ug/kg dry	23.5	23.5	1	06/16/16	06/16/16 18:45	GM
Naphthalene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
n-Propylbenzene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Styrene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,1,1,2-Tetrachloroethane	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,1,2,2-Tetrachloroethane	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Tetrachloroethene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Toluene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,2,3-Trichlorobenzene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,2,4-Trichlorobenzene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,1,1-Trichloroethane	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,1,2-Trichloroethane	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Trichloroethene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Trichlorofluoromethane (Freon 11)	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,2,3-Trichloropropane	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,2,4-Trimethylbenzene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
1,3,5-Trimethylbenzene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Sam Hamner, President

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-4 (2-6')**

**6061512-04 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
Vinyl chloride	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
o-Xylene	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
m- & p-Xylenes	ND		ug/kg dry	5.9	2.4	1	06/16/16	06/16/16 18:45	GM
Surrogate: 1,2-Dichloroethane-d4		70-130		116 %	06/16/16		06/16/16 18:45		
Surrogate: Toluene-d8		75-120		101 %	06/16/16		06/16/16 18:45		
Surrogate: 4-Bromofluorobenzene		65-120		80 %	06/16/16		06/16/16 18:45		
<b>SEMIVOLATILE ORGANICS BY EPA METHOD 3540/8270D (GC/MS)</b>									
Acenaphthene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Acenaphthylene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Anthracene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Benzo[a]anthracene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Benzo[b]fluoranthene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Benzo[k]fluoranthene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Benzo[ghi]perylene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Benzo[a]pyrene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
4-Bromophenyl phenyl ether	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Butyl benzyl phthalate	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Carbazole	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
4-Chloro-3-methylphenol	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
4-Chloroaniline	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Bis(2-chloroethoxy)methane	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Bis(2-chloroethyl) ether	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
2,2'-Oxybis(1-Chloropropane)	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
2-Chloronaphthalene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
2-Chlorophenol	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
4-Chlorophenyl phenyl ether	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Chrysene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Di-n-butyl phthalate	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Di-n-octyl phthalate	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Dibenzofuran	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
1,2-Dichlorobenzene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
1,3-Dichlorobenzene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Sam Hamner, President

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-4 (2-6')**

**6061512-04 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>SEMIVOLATILE ORGANICS BY EPA METHOD 3540/8270D (GC/MS) (continued)</b>									
1,4-Dichlorobenzene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
3,3-Dichlorobenzidine	ND		ug/kg dry	590	590	1	06/20/16	06/23/16 15:36	WB
2,4-Dichlorophenol	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Diethyl phthalate	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Dimethyl phthalate	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
2,4-Dimethylphenol	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
2-Methyl-4,6-dinitrophenol	ND		ug/kg dry	1470	1470	1	06/20/16	06/23/16 15:36	WB
2,4-Dinitrophenol	ND		ug/kg dry	1470	1470	1	06/20/16	06/23/16 15:36	WB
2,4-Dinitrotoluene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
2,6-Dinitrotoluene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Bis(2-ethylhexyl) phthalate	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Fluoranthene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Fluorene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Hexachlorobenzene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Hexachlorobutadiene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Hexachlorocyclopentadiene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Hexachloroethane	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Isophorone	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
2-Methylnaphthalene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
3&4-Methylphenol	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
2-Methylphenol	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
N-Nitroso-di-n-propylamine	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
N-Nitrosodiphenylamine	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Naphthalene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
2-Nitroaniline	ND		ug/kg dry	1470	1470	1	06/20/16	06/23/16 15:36	WB
3-Nitroaniline	ND		ug/kg dry	1470	1470	1	06/20/16	06/23/16 15:36	WB
4-Nitroaniline	ND		ug/kg dry	1470	1470	1	06/20/16	06/23/16 15:36	WB
Nitrobenzene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
2-Nitrophenol	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
4-Nitrophenol	ND		ug/kg dry	1470	1470	1	06/20/16	06/23/16 15:36	WB
Pentachlorophenol	ND		ug/kg dry	1470	1470	1	06/20/16	06/23/16 15:36	WB
Phenanthrene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
Phenol	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-4 (2-6')**

**6061512-04 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>SEMIVOLATILE ORGANICS BY EPA METHOD 3540/8270D (GC/MS) (continued)</b>									
Pyrene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
1,2,4-Trichlorobenzene	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
2,4,5-Trichlorophenol	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
2,4,6-Trichlorophenol	ND		ug/kg dry	290	120	1	06/20/16	06/23/16 15:36	WB
<i>Surrogate: 2-Fluorophenol</i>		50.4-106.9		72 %	06/20/16		06/23/16 15:36		
<i>Surrogate: Phenol-d5</i>		57.1-102.9		68 %	06/20/16		06/23/16 15:36		
<i>Surrogate: Nitrobenzene-d5</i>		65.4-105.8		69 %	06/20/16		06/23/16 15:36		
<i>Surrogate: 2,4,6-Tribromophenol</i>		40.2-120.7		93 %	06/20/16		06/23/16 15:36		
<i>Surrogate: 2-Fluorobiphenyl</i>		59.7-107.6		80 %	06/20/16		06/23/16 15:36		
<i>Surrogate: Terphenyl-d14</i>		70-131		87 %	06/20/16		06/23/16 15:36		
<b>GASOLINE RANGE ORGANICS BY EPA 5030/8015B</b>									
Gasoline-Range Organics	ND		mg/kg dry	0.12	0.12	1	06/20/16	06/20/16 16:57	GM
<i>Surrogate: a,a,a-Trifluorotoluene</i>		85-115		103 %	06/20/16		06/20/16 16:57		
<b>DIESEL RANGE ORGANICS BY EPA 3540/8015B</b>									
Diesel-Range Organics	ND		mg/kg dry	9.4	9.4	1	06/16/16	06/17/16 20:47	CMK
<i>Surrogate: o-Terphenyl</i>		70-130		76 %	06/16/16		06/17/16 20:47		
<b>PERCENT SOLIDS BY ASTM D2216-05</b>									
Percent Solids	85		%			1	06/16/16	06/17/16 10:15	AB
<b>POLYCHLORINATED BIPHENYLS BY EPA 3540/8082 (GC/ECD)</b>									
Aroclor-1016	ND		ug/kg dry	97.6		1	06/16/16	06/18/16 01:10	CMK
Aroclor-1221	ND		ug/kg dry	200		1	06/16/16	06/18/16 01:10	CMK
Aroclor-1232	ND		ug/kg dry	97.6		1	06/16/16	06/18/16 01:10	CMK
Aroclor-1242	ND		ug/kg dry	97.6		1	06/16/16	06/18/16 01:10	CMK
Aroclor-1248	ND		ug/kg dry	97.6		1	06/16/16	06/18/16 01:10	CMK
Aroclor-1254	ND		ug/kg dry	97.6		1	06/16/16	06/18/16 01:10	CMK
Aroclor-1260	ND		ug/kg dry	97.6		1	06/16/16	06/18/16 01:10	CMK
<i>Surrogate: Tetrachloro-m-xylene</i>		50-150		87 %	06/16/16		06/18/16 01:10		
<i>Surrogate: Decachlorobiphenyl</i>		50-150		105 %	06/16/16		06/18/16 01:10		



Sam Hamner, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-4 (2-6')**

**6061512-04 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>Wet Chemistry Performed at Enviro-Chem</b>									
% Solids	80.9		%	1.00	1.00	1	06/22/16	06/22/16 15:20	NFK
<b>Metals EPA 6020 Performed at Enviro-Chem</b>									
Silver	ND		mg/kg dry	0.386	0.386	2	06/21/16	06/23/16 13:17	MAP
Arsenic	0.856		mg/kg dry	0.386	0.386	2	06/21/16	06/23/16 13:17	MAP
Barium	2.31		mg/kg dry	0.386	0.386	2	06/21/16	06/23/16 13:17	MAP
Cadmium	ND		mg/kg dry	0.386	0.386	2	06/21/16	06/23/16 13:17	MAP
Chromium	10.6		mg/kg dry	0.386	0.386	2	06/21/16	06/23/16 13:17	MAP
Mercury	ND		mg/kg dry	0.0773	0.0773	2	06/21/16	06/23/16 13:17	MAP
Lead	11.6		mg/kg dry	0.386	0.386	2	06/21/16	06/23/16 13:17	MAP
Selenium	2.09		mg/kg dry	0.386	0.386	2	06/21/16	06/23/16 13:17	MAP



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**Analytical Results**

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-5 (2-6')**

**6061512-05 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS)</b>									
Acetone	ND		ug/kg dry	12.2	12.2	1	06/16/16	06/16/16 19:17	GM
tert-Amyl alcohol (TAA)	ND		ug/kg dry	61.0	61.0	1	06/16/16	06/16/16 19:17	GM
tert-Amyl methyl ether (TAME)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Benzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Bromobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Bromochloromethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Bromodichloromethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Bromoform	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Bromomethane	ND		ug/kg dry	6.1	6.1	1	06/16/16	06/16/16 19:17	GM
tert-Butanol (TBA)	ND		ug/kg dry	61.0	61.0	1	06/16/16	06/16/16 19:17	GM
2-Butanone (MEK)	ND		ug/kg dry	12.2	12.2	1	06/16/16	06/16/16 19:17	GM
n-Butylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
sec-Butylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
tert-Butylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Carbon disulfide	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Carbon tetrachloride	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Chlorobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Chloroethane	ND		ug/kg dry	6.1	6.1	1	06/16/16	06/16/16 19:17	GM
Chloroform	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Chloromethane	ND		ug/kg dry	6.1	6.1	1	06/16/16	06/16/16 19:17	GM
2-Chlorotoluene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
4-Chlorotoluene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,2-Dibromo-3-chloropropane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Dibromochloromethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,2-Dibromoethane (EDB)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Dibromomethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,2-Dichlorobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,3-Dichlorobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,4-Dichlorobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Dichlorodifluoromethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,1-Dichloroethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,2-Dichloroethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,1-Dichloroethene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
cis-1,2-Dichloroethene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**Analytical Results**

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-5 (2-6')**

**6061512-05 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
trans-1,2-Dichloroethene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Dichlorofluoromethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,2-Dichloropropane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,3-Dichloropropane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
2,2-Dichloropropane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,1-Dichloropropene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
cis-1,3-Dichloropropene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
trans-1,3-Dichloropropene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Diisopropyl ether (DIPE)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Ethylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Hexachlorobutadiene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
2-Hexanone	ND		ug/kg dry	12.2	12.2	1	06/16/16	06/16/16 19:17	GM
Isopropylbenzene (Cumene)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
4-Isopropyltoluene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
4-Methyl-2-pentanone	ND		ug/kg dry	12.2	12.2	1	06/16/16	06/16/16 19:17	GM
Methylene chloride	ND		ug/kg dry	24.4	24.4	1	06/16/16	06/16/16 19:17	GM
Naphthalene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
n-Propylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Styrene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,1,1,2-Tetrachloroethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,1,2,2-Tetrachloroethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Tetrachloroethene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Toluene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,2,3-Trichlorobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,2,4-Trichlorobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,1,1-Trichloroethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,1,2-Trichloroethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Trichloroethene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Trichlorofluoromethane (Freon 11)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,2,3-Trichloropropane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,2,4-Trimethylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
1,3,5-Trimethylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-5 (2-6')**

**6061512-05 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
Vinyl chloride	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
o-Xylene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
m- & p-Xylenes	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:17	GM
Surrogate: 1,2-Dichloroethane-d4			70-130	109 %	06/16/16		06/16/16 19:17		
Surrogate: Toluene-d8			75-120	103 %	06/16/16		06/16/16 19:17		
Surrogate: 4-Bromofluorobenzene			65-120	79 %	06/16/16		06/16/16 19:17		
<b>SEMIVOLATILE ORGANICS BY EPA METHOD 3540/8270D (GC/MS)</b>									
Acenaphthene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Acenaphthylene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Anthracene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Benzo[a]anthracene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Benzo[b]fluoranthene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Benzo[k]fluoranthene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Benzo[ghi]perylene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Benzo[a]pyrene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
4-Bromophenyl phenyl ether	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Butyl benzyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Carbazole	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
4-Chloro-3-methylphenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
4-Chloroaniline	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Bis(2-chloroethoxy)methane	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Bis(2-chloroethyl) ether	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
2,2'-Oxybis(1-Chloropropane)	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
2-Chloronaphthalene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
2-Chlorophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
4-Chlorophenyl phenyl ether	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Chrysene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Di-n-butyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Di-n-octyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Dibenzofuran	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
1,2-Dichlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
1,3-Dichlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Sam Hamner, President

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-5 (2-6')**

**6061512-05 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>SEMIVOLATILE ORGANICS BY EPA METHOD 3540/8270D (GC/MS) (continued)</b>									
1,4-Dichlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
3,3-Dichlorobenzidine	ND		ug/kg dry	610	610	1	06/20/16	06/23/16 16:20	WB
2,4-Dichlorophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Diethyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Dimethyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
2,4-Dimethylphenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
2-Methyl-4,6-dinitrophenol	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 16:20	WB
2,4-Dinitrophenol	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 16:20	WB
2,4-Dinitrotoluene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
2,6-Dinitrotoluene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Bis(2-ethylhexyl) phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Fluoranthene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Fluorene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Hexachlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Hexachlorobutadiene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Hexachlorocyclopentadiene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Hexachloroethane	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Isophorone	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
2-Methylnaphthalene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
3&4-Methylphenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
2-Methylphenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
N-Nitroso-di-n-propylamine	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
N-Nitrosodiphenylamine	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Naphthalene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
2-Nitroaniline	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 16:20	WB
3-Nitroaniline	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 16:20	WB
4-Nitroaniline	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 16:20	WB
Nitrobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
2-Nitrophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
4-Nitrophenol	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 16:20	WB
Pentachlorophenol	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 16:20	WB
Phenanthrene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
Phenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-5 (2-6')**

**6061512-05 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>SEMIVOLATILE ORGANICS BY EPA METHOD 3540/8270D (GC/MS) (continued)</b>									
Pyrene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
1,2,4-Trichlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
2,4,5-Trichlorophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
2,4,6-Trichlorophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 16:20	WB
<i>Surrogate: 2-Fluorophenol</i>		50.4-106.9		66 %	06/20/16		06/23/16 16:20		
<i>Surrogate: Phenol-d5</i>		57.1-102.9		67 %	06/20/16		06/23/16 16:20		
<i>Surrogate: Nitrobenzene-d5</i>		65.4-105.8		68 %	06/20/16		06/23/16 16:20		
<i>Surrogate: 2,4,6-Tribromophenol</i>		40.2-120.7		94 %	06/20/16		06/23/16 16:20		
<i>Surrogate: 2-Fluorobiphenyl</i>		59.7-107.6		81 %	06/20/16		06/23/16 16:20		
<i>Surrogate: Terphenyl-d14</i>		70-131		83 %	06/20/16		06/23/16 16:20		
<b>GASOLINE RANGE ORGANICS BY EPA 5030/8015B</b>									
Gasoline-Range Organics	ND		mg/kg dry	0.12	0.12	1	06/20/16	06/20/16 17:36	GM
<i>Surrogate: a,a,a-Trifluorotoluene</i>		85-115		104 %	06/20/16		06/20/16 17:36		
<b>DIESEL RANGE ORGANICS BY EPA 3540/8015B</b>									
Diesel-Range Organics	ND		mg/kg dry	9.8	9.8	1	06/16/16	06/17/16 21:14	CMK
<i>Surrogate: o-Terphenyl</i>		70-130		75 %	06/16/16		06/17/16 21:14		
<b>PERCENT SOLIDS BY ASTM D2216-05</b>									
Percent Solids	82		%			1	06/16/16	06/17/16 10:15	AB
<b>POLYCHLORINATED BIPHENYLS BY EPA 3540/8082 (GC/ECD)</b>									
Aroclor-1016	ND		ug/kg dry	101		1	06/16/16	06/18/16 01:42	CMK
Aroclor-1221	ND		ug/kg dry	207		1	06/16/16	06/18/16 01:42	CMK
Aroclor-1232	ND		ug/kg dry	101		1	06/16/16	06/18/16 01:42	CMK
Aroclor-1242	ND		ug/kg dry	101		1	06/16/16	06/18/16 01:42	CMK
Aroclor-1248	ND		ug/kg dry	101		1	06/16/16	06/18/16 01:42	CMK
Aroclor-1254	ND		ug/kg dry	101		1	06/16/16	06/18/16 01:42	CMK
Aroclor-1260	ND		ug/kg dry	101		1	06/16/16	06/18/16 01:42	CMK
<i>Surrogate: Tetrachloro-m-xylene</i>		50-150		85 %	06/16/16		06/18/16 01:42		
<i>Surrogate: Decachlorobiphenyl</i>		50-150		99 %	06/16/16		06/18/16 01:42		



Sam Hamner, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-5 (2-6')**

**6061512-05 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>Wet Chemistry Performed at Enviro-Chem</b>									
% Solids	81.5		%	1.00	1.00	1	06/22/16	06/22/16 15:20	NFK
<b>Metals EPA 6020 Performed at Enviro-Chem</b>									
Silver	ND		mg/kg dry	0.455	0.455	2	06/21/16	06/23/16 15:28	MAP
Arsenic	1.94		mg/kg dry	0.455	0.455	2	06/21/16	06/23/16 15:28	MAP
Barium	3.40		mg/kg dry	0.455	0.455	2	06/21/16	06/23/16 15:28	MAP
Cadmium	ND		mg/kg dry	0.455	0.455	2	06/21/16	06/23/16 15:28	MAP
Chromium	7.62		mg/kg dry	0.455	0.455	2	06/21/16	06/23/16 15:28	MAP
Mercury	ND		mg/kg dry	0.0909	0.0909	2	06/21/16	06/23/16 15:28	MAP
Lead	8.23		mg/kg dry	0.455	0.455	2	06/21/16	06/23/16 15:28	MAP
Selenium	5.53		mg/kg dry	0.455	0.455	2	06/21/16	06/23/16 15:28	MAP



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-6 (4-6')**

**6061512-06 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS)</b>									
Acetone	ND		ug/kg dry	12.2	12.2	1	06/16/16	06/16/16 19:48	GM
tert-Amyl alcohol (TAA)	ND		ug/kg dry	61.0	61.0	1	06/16/16	06/16/16 19:48	GM
tert-Amyl methyl ether (TAME)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Benzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Bromobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Bromochloromethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Bromodichloromethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Bromoform	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Bromomethane	ND		ug/kg dry	6.1	6.1	1	06/16/16	06/16/16 19:48	GM
tert-Butanol (TBA)	ND		ug/kg dry	61.0	61.0	1	06/16/16	06/16/16 19:48	GM
2-Butanone (MEK)	ND		ug/kg dry	12.2	12.2	1	06/16/16	06/16/16 19:48	GM
n-Butylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
sec-Butylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
tert-Butylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Carbon disulfide	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Carbon tetrachloride	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Chlorobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Chloroethane	ND		ug/kg dry	6.1	6.1	1	06/16/16	06/16/16 19:48	GM
Chloroform	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Chloromethane	ND		ug/kg dry	6.1	6.1	1	06/16/16	06/16/16 19:48	GM
2-Chlorotoluene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
4-Chlorotoluene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,2-Dibromo-3-chloropropane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Dibromochloromethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,2-Dibromoethane (EDB)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Dibromomethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,2-Dichlorobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,3-Dichlorobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,4-Dichlorobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Dichlorodifluoromethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,1-Dichloroethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,2-Dichloroethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,1-Dichloroethene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
cis-1,2-Dichloroethene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-6 (4-6')**

**6061512-06 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
trans-1,2-Dichloroethene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Dichlorofluoromethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,2-Dichloropropane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,3-Dichloropropane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
2,2-Dichloropropane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,1-Dichloropropene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
cis-1,3-Dichloropropene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
trans-1,3-Dichloropropene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Diisopropyl ether (DIPE)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Ethylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Hexachlorobutadiene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
2-Hexanone	ND		ug/kg dry	12.2	12.2	1	06/16/16	06/16/16 19:48	GM
Isopropylbenzene (Cumene)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
4-Isopropyltoluene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
4-Methyl-2-pentanone	ND		ug/kg dry	12.2	12.2	1	06/16/16	06/16/16 19:48	GM
Methylene chloride	ND		ug/kg dry	24.4	24.4	1	06/16/16	06/16/16 19:48	GM
Naphthalene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
n-Propylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Styrene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,1,1,2-Tetrachloroethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,1,2,2-Tetrachloroethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Tetrachloroethene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Toluene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,2,3-Trichlorobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,2,4-Trichlorobenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,1,1-Trichloroethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,1,2-Trichloroethane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Trichloroethene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Trichlorofluoromethane (Freon 11)	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,2,3-Trichloropropane	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,2,4-Trimethylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
1,3,5-Trimethylbenzene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-6 (4-6')**

**6061512-06 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
Vinyl chloride	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
o-Xylene	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
m- & p-Xylenes	ND		ug/kg dry	6.1	2.4	1	06/16/16	06/16/16 19:48	GM
Surrogate: 1,2-Dichloroethane-d4		70-130		115 %	06/16/16		06/16/16 19:48		
Surrogate: Toluene-d8		75-120		100 %	06/16/16		06/16/16 19:48		
Surrogate: 4-Bromofluorobenzene		65-120		82 %	06/16/16		06/16/16 19:48		
<b>SEMIVOLATILE ORGANICS BY EPA METHOD 3540/8270D (GC/MS)</b>									
Acenaphthene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Acenaphthylene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Anthracene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Benzo[a]anthracene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Benzo[b]fluoranthene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Benzo[k]fluoranthene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Benzo[ghi]perylene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Benzo[a]pyrene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
4-Bromophenyl phenyl ether	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Butyl benzyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Carbazole	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
4-Chloro-3-methylphenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
4-Chloroaniline	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Bis(2-chloroethoxy)methane	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Bis(2-chloroethyl) ether	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
2,2'-Oxybis(1-Chloropropane)	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
2-Chloronaphthalene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
2-Chlorophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
4-Chlorophenyl phenyl ether	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Chrysene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Di-n-butyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Di-n-octyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Dibenzo[a,h]anthracene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Dibenzofuran	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
1,2-Dichlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
1,3-Dichlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Sam Hamner, President

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-6 (4-6')**

**6061512-06 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>SEMIVOLATILE ORGANICS BY EPA METHOD 3540/8270D (GC/MS) (continued)</b>									
1,4-Dichlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
3,3-Dichlorobenzidine	ND		ug/kg dry	610	610	1	06/20/16	06/23/16 17:04	WB
2,4-Dichlorophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Diethyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Dimethyl phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
2,4-Dimethylphenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
2-Methyl-4,6-dinitrophenol	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 17:04	WB
2,4-Dinitrophenol	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 17:04	WB
2,4-Dinitrotoluene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
2,6-Dinitrotoluene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Bis(2-ethylhexyl) phthalate	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Fluoranthene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Fluorene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Hexachlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Hexachlorobutadiene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Hexachlorocyclopentadiene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Hexachloroethane	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Isophorone	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
2-Methylnaphthalene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
3&4-Methylphenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
2-Methylphenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
N-Nitroso-di-n-propylamine	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
N-Nitrosodiphenylamine	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Naphthalene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
2-Nitroaniline	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 17:04	WB
3-Nitroaniline	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 17:04	WB
4-Nitroaniline	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 17:04	WB
Nitrobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
2-Nitrophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
4-Nitrophenol	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 17:04	WB
Pentachlorophenol	ND		ug/kg dry	1520	1520	1	06/20/16	06/23/16 17:04	WB
Phenanthrene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Phenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-6 (4-6')**

**6061512-06 (Soil)**  
Sample Date: 06/15/16

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>SEMIVOLATILE ORGANICS BY EPA METHOD 3540/8270D (GC/MS) (continued)</b>									
Pyrene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
1,2,4-Trichlorobenzene	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
2,4,5-Trichlorophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
2,4,6-Trichlorophenol	ND		ug/kg dry	300	120	1	06/20/16	06/23/16 17:04	WB
Surrogate: 2-Fluorophenol		50.4-106.9		70 %	06/20/16		06/23/16 17:04		
Surrogate: Phenol-d5		57.1-102.9		67 %	06/20/16		06/23/16 17:04		
Surrogate: Nitrobenzene-d5		65.4-105.8		68 %	06/20/16		06/23/16 17:04		
Surrogate: 2,4,6-Tribromophenol		40.2-120.7		93 %	06/20/16		06/23/16 17:04		
Surrogate: 2-Fluorobiphenyl		59.7-107.6		81 %	06/20/16		06/23/16 17:04		
Surrogate: Terphenyl-d14		70-131		83 %	06/20/16		06/23/16 17:04		
<b>GASOLINE RANGE ORGANICS BY EPA 5030/8015B</b>									
Gasoline-Range Organics	ND		mg/kg dry	0.12	0.12	1	06/20/16	06/20/16 18:14	GM
Surrogate: a,a,a-Trifluorotoluene		85-115		101 %	06/20/16		06/20/16 18:14		
<b>DIESEL RANGE ORGANICS BY EPA 3540/8015B</b>									
Diesel-Range Organics	ND		mg/kg dry	9.8	9.8	1	06/16/16	06/17/16 21:41	CMK
Surrogate: o-Terphenyl		70-130		78 %	06/16/16		06/17/16 21:41		
<b>PERCENT SOLIDS BY ASTM D2216-05</b>									
Percent Solids	82		%			1	06/16/16	06/17/16 10:15	AB
<b>POLYCHLORINATED BIPHENYLS BY EPA 3540/8082 (GC/ECD)</b>									
Aroclor-1016	ND		ug/kg dry	101		1	06/16/16	06/18/16 02:13	CMK
Aroclor-1221	ND		ug/kg dry	207		1	06/16/16	06/18/16 02:13	CMK
Aroclor-1232	ND		ug/kg dry	101		1	06/16/16	06/18/16 02:13	CMK
Aroclor-1242	ND		ug/kg dry	101		1	06/16/16	06/18/16 02:13	CMK
Aroclor-1248	ND		ug/kg dry	101		1	06/16/16	06/18/16 02:13	CMK
Aroclor-1254	ND		ug/kg dry	101		1	06/16/16	06/18/16 02:13	CMK
Aroclor-1260	ND		ug/kg dry	101		1	06/16/16	06/18/16 02:13	CMK
Surrogate: Tetrachloro-m-xylene		50-150		85 %	06/16/16		06/18/16 02:13		
Surrogate: Decachlorobiphenyl		50-150		100 %	06/16/16		06/18/16 02:13		



Sam Hamner, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

**Analytical Results**

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**SB-6 (4-6')**

**6061512-06 (Soil)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
---------	--------	-------	-------	-----------------------	--------------------------	----------	----------	----------	---------

**Wet Chemistry Performed at Enviro-Chem**

<b>% Solids</b>	<b>82.0</b>		%	1.00	1.00	1	06/22/16	06/22/16 15:20	NFK
-----------------	-------------	--	---	------	------	---	----------	----------------	-----

**Metals EPA 6020 Performed at Enviro-Chem**

Silver	ND		mg/kg dry	0.443	0.443	2	06/21/16	06/23/16 15:32	MAP
<b>Arsenic</b>	<b>1.73</b>		mg/kg dry	0.443	0.443	2	06/21/16	06/23/16 15:32	MAP
<b>Barium</b>	<b>6.57</b>		mg/kg dry	0.443	0.443	2	06/21/16	06/23/16 15:32	MAP
Cadmium	ND		mg/kg dry	0.443	0.443	2	06/21/16	06/23/16 15:32	MAP
<b>Chromium</b>	<b>13.9</b>		mg/kg dry	0.443	0.443	2	06/21/16	06/23/16 15:32	MAP
Mercury	ND		mg/kg dry	0.0886	0.0886	2	06/21/16	06/23/16 15:32	MAP
<b>Lead</b>	<b>5.53</b>		mg/kg dry	0.443	0.443	2	06/21/16	06/23/16 15:32	MAP
<b>Selenium</b>	<b>7.09</b>		mg/kg dry	0.443	0.443	2	06/21/16	06/23/16 15:32	MAP



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**TRIP BLANK 06-15-16**

**6061512-07 (Nonpotable Water)**

**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS)</b>									
Acetone	ND		ug/L	10.0	10.0	1	06/16/16	06/16/16 18:37	WB
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	06/16/16	06/16/16 18:37	WB
tert-Amyl methyl ether (TAME)	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Benzene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Bromobenzene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Bromochloromethane	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Bromodichloromethane	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Bromoform	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Bromomethane	ND		ug/L	5.0	5.0	1	06/16/16	06/16/16 18:37	WB
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	06/16/16	06/16/16 18:37	WB
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	06/16/16	06/16/16 18:37	WB
n-Butylbenzene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
sec-Butylbenzene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
tert-Butylbenzene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Carbon disulfide	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Carbon tetrachloride	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Chlorobenzene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Chloroethane	ND		ug/L	5.0	5.0	1	06/16/16	06/16/16 18:37	WB
Chloroform	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Chloromethane	ND		ug/L	5.0	5.0	1	06/16/16	06/16/16 18:37	WB
2-Chlorotoluene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
4-Chlorotoluene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Dibromochloromethane	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,2-Dibromo-3-chloropropane	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Dibromomethane	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,2-Dichlorobenzene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,3-Dichlorobenzene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,4-Dichlorobenzene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Dichlorodifluoromethane	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,1-Dichloroethane	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,2-Dichloroethane	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,1-Dichloroethene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
cis-1,2-Dichloroethene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Sam Hamner, President

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**TRIP BLANK 06-15-16**

**6061512-07 (Nonpotable Water)**  
Sample Date: 06/15/16

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
trans-1,2-Dichloroethene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Dichlorofluoromethane	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,2-Dichloropropane	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,3-Dichloropropane	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
2,2-Dichloropropane	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,1-Dichloropropene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
cis-1,3-Dichloropropene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
trans-1,3-Dichloropropene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Diisopropyl ether (DIPE)	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Ethyl tert-butyl ether (ETBE)	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Ethylbenzene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Hexachlorobutadiene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
2-Hexanone	ND		ug/L	10.0	10.0	1	06/16/16	06/16/16 18:37	WB
Isopropylbenzene (Cumene)	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
4-Isopropyltoluene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Methyl tert-butyl ether (MTBE)	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	06/16/16	06/16/16 18:37	WB
Methylene chloride	ND		ug/L	10.0	10.0	1	06/16/16	06/16/16 18:37	WB
Naphthalene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
n-Propylbenzene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Styrene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Tetrachloroethene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Toluene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,2,3-Trichlorobenzene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,2,4-Trichlorobenzene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,1,1-Trichloroethane	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,1,2-Trichloroethane	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Trichloroethene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Trichlorofluoromethane (Freon 11)	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,2,3-Trichloropropane	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,2,4-Trimethylbenzene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
1,3,5-Trimethylbenzene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**Analytical Results**

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

**TRIP BLANK 06-15-16**

**6061512-07 (Nonpotable Water)**  
**Sample Date: 06/15/16**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Quantitation Limit (LOQ)	Dilution	Prepared	Analyzed	Analyst
<b>VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) (continued)</b>									
Vinyl chloride	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
o-Xylene	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
m- & p-Xylenes	ND		ug/L	5.0	2.0	1	06/16/16	06/16/16 18:37	WB
Surrogate: 1,2-Dichloroethane-d4				75-120	98 %		06/16/16	06/16/16 18:37	
Surrogate: Toluene-d8				84-110	99 %		06/16/16	06/16/16 18:37	
Surrogate: 4-Bromofluorobenzene				78-110	97 %		06/16/16	06/16/16 18:37	



Sam Hamner, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

## Analytical Results

**Project: MOCO AIRPARK**

Project Number: C2015032.002  
Project Manager: Kevin DiMartino

Reported:  
06/27/16 16:45

### Notes and Definitions

S-BN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
L	Analyte is a possible laboratory contaminant
J	Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Sam Hamner, President

# CHAIN-OF-CUSTODY RECORD

<b>Company Name:</b> CEM		<b>Project Manager:</b> Kevin DiMartino		<b>Analysis Requested</b>		<b>Maryland Spectral Services, Inc.</b> 1500 Caton Center Drive, Suite G Baltimore, MD 21227 410-247-7600 • Fax 410-247-7602 labman@mdspectral.com		<b>MSS Lab ID</b>			
<b>Project Name:</b> MoCo Airpark		<b>Project ID:</b> C2015036.002		TPH-DRO TPH-GRO TCL VOCs TCL SVOCs RCRA Metals PCBs		<b>Matrix Codes:</b> NW (nonpotable water) PW (potable water)		Field pH, Residual Chlorine, OC Request, Trip Blank, Field Blank			
<b>Sampler(s):</b> JCS		<b>P.O. Number:</b>		<b>No. of Containers</b>		<b>Preservative:</b> 1 + 1 HCL, H <sub>2</sub> SO <sub>4</sub> , Methanol, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , NaHCO <sub>3</sub>		6061512-01 -02 -03 -04 -05 6061512-06 -07			
Field Sample ID	Date	Time	Water	Soil	Other	TPH-DRO	TPH-GRO	TCL VOCs	TCL SVOCs	RCRA Metals	PCBs
SB-1 (2-6')	6/15/16	1155	X			X	X	X	X	X	X
SB-2 (2-6')	6/15/16	1120	X			X	X	X	X	X	X
SB-3 (2-6')	6/15/16	1400	X			X	X	X	X	X	X
SB-4 (2-6')	6/15/16	0930	X			X	X	X	X	X	X
SB-5 (2-6')	6/15/16	1045	X			X	X	X	X	X	X
SB-6 (4-6')	6/15/16	1015	X			X	X	X	X	X	X
Trip Blank 06-15-16											
<b>Received by:</b> (Signature) <i>Joseph Sawicki</i> (Printed)		<b>Date/Time</b> 6/15/16 1630		<b>Relinquished by:</b> (Signature) <i>R. Beemel</i> (Printed)		<b>Date/Time</b>		<b>Received by:</b> (Signature) (Printed)		<b>Date/Time</b>	
<b>Relinquished by:</b> (Signature) (Printed)		<b>Date/Time</b>		<b>Received by Lab:</b> (Signature) (Printed)		<b>Turn Around Time:</b>		<b>Lab Use:</b>		<b>Sample Disposal:</b>	
<b>Delivery Method:</b>		<b>Special Instructions/OC Requirements &amp; Comments:</b>		<input type="checkbox"/> Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> USPS <input type="checkbox"/> Other:		<input checked="" type="checkbox"/> Normal (7 day) <input type="checkbox"/> 5 day <input type="checkbox"/> 4 day <input type="checkbox"/> 3 day <input type="checkbox"/> Rush (2 day) <input type="checkbox"/> Next Day <input type="checkbox"/> Other: _____ <input type="checkbox"/> Specific Due Date: _____		<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by lab <input type="checkbox"/> Archive for _____ days		<input type="checkbox"/> Received on Ice <input checked="" type="checkbox"/> Received same day <input type="checkbox"/> Preservation Appropriate	

***APPENDIX F***

*ANALYTICAL SUMMARY TABLE*



**SOIL ANALYTICAL SUMMARY TABLE**

CAS-ID#	Analyte	Units	MDE Non-Residential Clean-Up Standard	SB-1 (2-6') 6/15/2016	SB-2 (2-6') 6/15/2016	SB-3 (2-6') 6/15/2016	SB-4 (2-6') 6/15/2016	SB-5 (2-6') 6/15/2016	SB-6 (4-6') 6/15/2016	Trip Blank 6/15/16
<b>Volatile Organic Compounds (VOCs)</b>										
67-64-1	Acetone	ug/kg	<b>92000000</b>	ND	ND	ND	ND	ND	ND	ND
75-09-2	Methylene Chloride (Dichloromethane)	ug/kg	<b>380000</b>	28.5 L	ND	ND	ND	ND	ND	ND
<b>Semivolatile Organic Compounds (SVOCs)</b>										
56-55-3	Benzo[a]anthracene	ug/kg	<b>3900</b>	ND	ND	ND	ND	ND	ND	NT
50-32-8	Benzo[a]pyrene	ug/kg	<b>390</b>	ND	ND	ND	ND	ND	ND	NT
205-99-2	Benzo[b]fluoranthene	ug/kg	<b>3900</b>	ND	ND	ND	ND	ND	ND	NT
191-24-2	Benzo[g,h,i]perylene	ug/kg	<b>3100000</b>	ND	ND	ND	ND	ND	ND	NT
207-08-9	Benzo[k]fluoranthene	ug/kg	<b>39000</b>	ND	ND	ND	ND	ND	ND	NT
<b>Pesticides/Herbicides/PCBs</b>										
1336-36-3	PCB(total)	ug/kg	<b>1400</b>	ND	ND	ND	ND	ND	ND	NT
<b>Inorganics</b>										
7440-38-2	Arsenic	mg/kg	<b>1.9</b>	1.51	<b>2.62</b>	1.29	0.856	<b>1.94</b>	1.73	NT
7440-39-3	Barium	mg/kg	<b>20000</b>	5.04	7.04	3.61	2.31	3.4	6.57	NT
7440-43-9	Cadmium	mg/kg	<b>51</b>	ND	ND	ND	ND	ND	ND	NT
7440-47-3	Chromium (total)	mg/kg	<b>310</b>	11.7	15.2	11.5	10.6	7.62	13.9	NT
7439-92-1	Lead	mg/kg	<b>1000</b>	15.1	13.4	9.27	11.6	8.23	5.53	NT
7487-94-7	Mercury (inorganic/Mercuric Dichloride)	mg/kg	<b>31</b>	ND	ND	ND	ND	ND	ND	NT
7782-49-2	Selenium	mg/kg	<b>510</b>	3.79	3.21	3.15	2.09	5.53	7.09	NT
7440-22-4	Silver	mg/kg	<b>510</b>	ND	ND	ND	ND	ND	ND	NT
<b>Total Petroleum Hydrocarbons</b>										
n/a	Diesel Range Organics (DRO)	mg/kg	<b>620</b>	14.4	ND	ND	ND	ND	ND	NT
n/a	Gasoline Range Organics (GRO)	mg/kg	<b>620</b>	ND	ND	ND	ND	ND	ND	NT

Bolded and shaded values indicate the concentration exceeded the MDE Non-Residential Cleanup Standard

ND - Indicates the analyte was analyzed for but not detected

NT - Indicates the analyte was not tested

L - Analyte is a possible laboratory contaminant



## REGULATED AND HAZARDOUS MATERIALS SURVEY

Montgomery County Airpark Parcels  
18810 Woodfield Road  
Gaithersburg, Maryland



*Prepared for:*

**Delta Airport Consultants**  
9711 Farrar Court, Suite 100  
Richmond, Virginia 23236

*Prepared by:*



**Chesapeake Environmental  
Management, Inc.**  
42 N. Main Street  
Bel Air, Maryland 21014



JULY 2016

**Regulated and Hazardous Materials Survey  
Montgomery County Airpark Parcels  
18810 Woodfield Road  
Gaithersburg, Maryland**

*Prepared for:*

Delta Airport Consultants  
9711 Farrar Court, Suite 100  
Richmond, Virginia 23236

*Prepared by:*

Chesapeake Environmental Management, Inc.  
42 North Main Street  
Bel Air, Maryland 21014  
(410) 893-9016

**July 2016**

**TABLE OF CONTENTS**

	<u>Page</u>
EXECUTIVE SUMMARY .....	ES-1
1.0 INTRODUCTION .....	1
2.0 METHODS .....	1
2.1 Hazardous Materials Visual Inspection .....	1
2.2 Asbestos-Containing Building Materials Survey.....	1
2.3 Lead-Based Paint Screening .....	2
3.0 RESULTS .....	2
3.1 Recognized Environmental Conditions .....	2
3.1.1 Drums and Storage Containers .....	2
3.1.2 Above Ground Storage Tanks .....	2
3.1.3 Underground Storage Tanks .....	2
3.1.4 Household Hazardous Waste.....	3
3.1.5 Polychlorinated Biphenyls .....	3
3.1.6 Mercury-Containing Devices.....	3
3.2 Asbestos-Containing Materials Analytical Data .....	3
3.3 Lead-Based Paint Screening Analytical Data .....	4
4.0 CONCLUSIONS .....	4
5.0 RECOMMENDATIONS .....	4
6.0 LIMITATIONS AND RESTRICTIONS .....	5

**LIST OF APPENDICES**

APPENDIX A	LIST OF ACRONYMS
APPENDIX B	FIGURES
	FIGURE 1 – Target Property Location Map
	FIGURE 2 – Target Property Overview Map
APPENDIX C	SITE PHOTOGRAPHS
APPENDIX D	ANALYTICAL SUMMARY TABLES
APPENDIX E	ASBESTOS SAMPLING ANALYTICAL RESULTS
APPENDIX F	LEAD-BASED PAINT SAMPLING RESULTS

## **EXECUTIVE SUMMARY**

Chesapeake Environmental Management, Inc. (CEM) has completed a Regulated and Hazardous Materials Survey at the Gold's Gym located at 18810 Woodfield Road (previously identified as Target Property #2 in the Phase I ESA (CEM 2016)). The site is located along the southeastern border of the Montgomery County Airpark in Gaithersburg, Maryland (herein referred to as the "Target Property" and presented as **Figure 1**).

CEM understands that the Montgomery County Airpark proposes to acquire the Target Property and raze the existing structures to facilitate the proposed construction activities associated with the most recent Federal Aviation Administration (FAA) requirements. The purpose of this Regulated and Hazardous Materials Survey was to evaluate the potential contamination issues that may exist at the target property and to assist in future planning efforts.

CEM surveyed one permanent structure at the Target Property that will potentially be demolished by Montgomery County Airpark. The structure includes one two-story commercial building.

According to the data collected during the Regulated and Hazardous Materials Survey, one recognized environmental condition (REC) was identified at the Target Property related to the presence of lead-based paint (LBP).

- All of the painted surfaces identified on the ceiling of the boxing studio room tested positive for lead paint.

The hazardous materials identified at the Target Property have been proven to be carcinogenic and would present a considerable risk to worker health and safety if significant exposure were to occur. Therefore, the data presented in this report should be considered during the planning phase of the proposed demolition to determine which protocols would be required during the handling and disposal of the encountered hazardous materials.

- No asbestos-containing building materials (ACBM) were encountered during the Regulated and Hazardous Materials Survey. Any suspected ACBM encountered during the demolition activities should be treated as ACBM, unless further testing proves otherwise.
- Based on the results of the lead-based paint (LBP) inspection, all identified ceiling components found in the boxing studio room should be treated as LBP building components for disposal purposes, unless further testing proves otherwise.
- CEM recommends collecting a representative sample of demolition debris for the purposes of waste characterization prior to disposal. The representative sample(s) should be submitted to a laboratory for analysis according to the Toxicity Characteristic Leaching Procedure (TCLP). Based on the results of the TCLP analysis, the wastes should be handled in accordance with all applicable federal, state and local regulations.

## **1.0 INTRODUCTION**

Chesapeake Environmental Management, Inc. (CEM) was retained by Delta Airpark Consultants (DAC) to perform a Regulated and Hazardous Materials Survey of the property located at 18810 Woodfield Road (identified as “Target Property” and presented in **Appendix B – Figure 1**).

This survey was performed to assist DAC with determining the appropriate handling and disposal requirements that may be needed when hazardous materials are encountered during the demolition of the structure located at the Target Property. This report includes the results of the hazardous materials visual inspection, asbestos-containing building materials (ACBM) survey, and lead-based paint (LBP) survey.

## **2.0 METHODS**

CEM conducted a Regulated and Hazardous Materials survey of the Target Property on June 14, 2016. The inspection consisted of an inspection of the perimeter of the structure, as well as all accessible interior areas of the structure (**Appendix B – Figure 2**). The structure exists as a two-story commercial gym building (Gold’s Gym). The photographs taken during the site reconnaissance are provided in **Appendix C**.

### **2.1 Hazardous Materials Visual Inspection**

As part of this survey, CEM performed a visual inspection of the Target Property for evidence of potential recognized environmental conditions (RECs), such as drums and storage containers, above ground storage tanks (ASTs), underground storage tanks (USTs), unregulated dumping of solid waste, polychlorinated biphenyls (PCBs), household hazardous wastes (HHW), and mercury-containing devices. The previously prepared Phase I ESA (CEM 2016) found that there were no RECs associated with the Target Property.

### **2.2 Asbestos-Containing Building Materials Survey**

On June 14, 2016, CEM’s certified asbestos inspector Daniel Danko [U.S. Environmental Protection Agency (EPA) accredited Asbestos Hazard Emergency Response Act (AHERA) Inspector #15022541] performed the identification and sampling of suspect ACBM. All accessible areas associated with the building located at the Target Property were inspected for suspect ACBM.

During the asbestos survey, CEM collected a total of three bulk samples of suspect ACBM from the structures located at the Target Property.

The suspect homogeneous ACBMs identified and sampled at the Target Property included:

- Exterior Caulking (located across exterior of structure roof)
- 1’x1’ Vinyl Floor Tile (located throughout interior of structure)
- Ceiling Tiles (located throughout interior of structure)

CEM’s building inspector collected bulk samples of suspect ACBM using a coring sampler, a metal spatula, or an X-acto knife. These tools were used to cut through the suspect material (down to the substrate) and obtain samples containing all discrete layers. Each sample was then placed in a sealable bag and assigned a unique sample number, which was recorded on the bags and on the bulk survey sampling sheets.

Every reasonable attempt was made to locate ACBM present as thermal system insulation (TSI), surfacing material, or other miscellaneous materials in the areas surveyed.

The bulk samples of suspect ACBM were submitted to AMA Analytical Services, Inc. in Lanham, Maryland under standard chain-of-custody procedures. The bulk samples were analyzed using polarized light microscopy (PLM)/Dispersion Staining in accordance with EPA Method 600/R-93/116 (Method for the Determination of Asbestos in Bulk Building Materials). A summary of the asbestos samples collected (including sample ID, base material, color, condition, location, type, friability, estimated quantity and asbestos content) is included in **Appendix D - Table 1** of this report. The copies of the chain of custody forms and Laboratory Certificates of Analysis are included in **Appendix E** of this report.

### **2.3 Lead-Based Paint Screening**

On June 14, 2016, Arc Environmental Inc.'s certified lead inspector, Sean Walter (Certification #15757) performed the LBP screening of all accessible areas of the structure located at the Target Property. The inspection was performed to characterize interior and exterior painted surfaces for lead content. The component types that were inspected included, but were not limited to, doors, door frames, door jambs, window frames, window sills, walls, ceilings, support beams, baseboards, and other miscellaneous painted surfaces.

The testing for lead content in paints was performed using a RMD LPA-1 X-Ray Fluorescence (XRF) Spectrum Analyzer (Serial Number 2613). The XRF instrument detects lead in the field by reading the fluorescence emanating from a painted surface when exposed to small amounts of radiation. XRF readings are reported in milligrams per square centimeter (mg/cm<sup>2</sup>), a mass per area reading. LBP is defined by Code of Maryland Regulations (COMAR) 26.16.01.02 B (7) as paint containing greater than 0.7 mg/cm<sup>2</sup> of lead and defined by the U.S. Department of Housing and Urban Development (HUD) as paint containing greater than or equal to 1.0 mg/cm<sup>2</sup> of lead.

During the investigation, a total of 231 XRF readings were recorded and one positive result was identified. Calibration checks were performed before and after the investigation to ensure that the instrument was within acceptable calibration parameters. A summary of the LBP results are included in **Appendix D - Table 2** of this report.

## **3.0 RESULTS**

### **3.1 Recognized Environmental Conditions**

CEM performed a hazardous materials visual inspection of the Target Property for evidence of potential RECs. All photographs taken during the site inspection are presented in **Appendix C**.

#### **3.1.1 Drums and Storage Containers**

During the site reconnaissance, CEM did not observe any drums or storage containers at the Target Property.

#### **3.1.2 Above Ground Storage Tanks**

CEM inspected the Target Property for evidence of ASTs, such as concrete pads, containment walls, pedestals, storage tank fill pipes, storage tank vent pipes, or steel support structures. During the site reconnaissance, CEM did not observe any evidence of an AST at the Target Property.

#### **3.1.3 Underground Storage Tanks**

CEM inspected the Target Property for evidence of USTs, such as vent pipes, fill caps, fuel pumps, or concrete islands. During the site reconnaissance, CEM did not observe any evidence of existing or historical USTs at the Target Property.

#### **3.1.4 Household Hazardous Waste**

Household hazardous waste (HHW) includes items that are typically found in buildings and are used for standard cleaning and maintenance activities. These wastes include (but are not limited to) interior and exterior paints, pesticides, herbicides, fertilizers, small volumes of petroleum products (used to maintain and repair internal combustion engines), propane tanks, and batteries. Additionally, smoke detectors have been listed as HHW (due to many of the detectors utilizing ionization technology which includes a chamber containing radioactive material incorporated into a gold matrix). EPA's household waste program encourages that these materials be segregated from the typical household waste. During the site reconnaissance, CEM did not observe any household hazardous wastes at the Target Property.

#### **3.1.5 Polychlorinated Biphenyls**

Polychlorinated Biphenyls (PCBs) are toxic coolants or lubricating oils used in some electrical transformers, fluorescent light fixtures, electrical panels, and similar equipment. PCB content in electrical transformers has been categorized into three classifications by the federal government. Those units that contain less than 50 parts per million (ppm) are defined as non-PCB. Units that contain between 50 ppm and less than 500 ppm PCBs are defined as PCB-contaminated. Units with a PCB content of 500 ppm and greater are classified as PCB transformers. Fluorescent light ballasts manufactured prior to 1979 may also contain PCBs if not labeled otherwise. During the site reconnaissance, CEM did not observe any fluorescent light fixtures at the Target Property.

#### **3.1.6 Mercury-Containing Devices**

Mercury-containing thermostats and compact fluorescent light bulbs (CFLs) are considered to be universal wastes and have to be stored, transported, and disposed of in accordance with the EPA regulations listed in 40 CFR Part 273. During the site reconnaissance, CEM did not observe any mercury-containing devices at the Target Property.

### **3.2 Asbestos-Containing Materials Analytical Data**

Building demolition activities have the potential to produce hazardous wastes (asbestos-containing fibers) if ACBMs are disrupted or removed. Based on the EPA definition, a material that contains greater than one percent asbestos fibers by volume is considered ACBM, and must be handled according to Occupational Safety and Health Administration (OSHA) and EPA regulations (if disturbed). ACBM is categorized as friable (capable of being crumbled, pulverized, or reduced to powder by hand pressure) and non-friable (incapable of reducing to powder by hand pressure). Friable ACBM has a greater potential for the release of fibers to the atmosphere and a greater concern to human health.

During the survey, CEM identified two homogeneous materials suspected of potentially containing asbestos on the interior of the structures and two homogenous materials identified on the exterior of the structures. A summary of the asbestos sampling is included in **Appendix D - Table 1** (including sample ID, base material, color, condition, location, type, friability, estimated quantity, and asbestos content). The complete ACBM survey results are included in **Appendix E** of this report.

After reviewing the ACBM laboratory analytical results, it was determined that no building components were confirmed to contain ACBM. Although no ACBMs were identified, additional suspect materials may be discovered during demolition activities. It is recommended that any additional suspect material discovered during the demolition activities be tested for the presence of ACBM, unless additional information warrants otherwise.



### **3.3 Lead-Based Paint Screening Analytical Data**

Building demolition activities have the potential to produce hazardous wastes (lead-containing dusts) if lead-containing paint or components are disrupted or removed. Based on the COMAR definition, any paint that contains lead concentrations greater than or equal to 0.7 mg/cm<sup>2</sup> is considered to be LBP.

During the survey, all painted surfaces were sampled for LBP and XRF testing identified lead concentrations greater than or equal to 0.7 mg/cm<sup>2</sup>. A summary of the LBP screening results are included in **Appendix D - Table 2** of this report. The complete LBP survey results are included in **Appendix F** of this report.

The following building components were found to contain detectable amounts of lead above the standard established by the State.

- The metal ceiling and ceiling components in the Boxing Studio (located at the rear of the gym, along the eastern-most exterior wall).

OSHA regulates all activities that disturb lead-based paint. All construction work, including demolition of materials containing lead, is regulated by the OSHA 29 CFR 1926.62 Interim Final Lead Regulation. OSHA regulations require training, personal protective equipment, and personal air monitoring for workers when conducting activities that disturb lead-based paint/lead-containing materials.

As the surveyed buildings are planned to be demolished, lead-based paint abatement is not required prior to the demolition activity. However, the demolition waste is required to be tested in accordance with EPA's Toxicity Characteristic Leaching Procedure (TCLP) to determine if the waste is hazardous and disposed of accordingly. The hazardous waste criteria for lead is established under the Federal Resource Conservation and Recovery Act (RCRA) - Subtitle C as 5.0 milligrams per liter (mg/L) in samples analyzed according to the TCLP as listed in CFR 40 Part 261. DAC's selected construction contractor shall be responsible for the proper disposal of any hazardous wastes that fails the TCLP test. Metal components coated with LBP, which will be recycled as scrap metal, would not be required to be sampled prior to removal from the site.

### **4.0 CONCLUSIONS**

According to the data collected as part of this Regulated and Hazardous Materials Survey, the following RECs (associated with the hazardous materials inspected) were identified at the Target Property.

- All of the painted surfaces identified on the ceiling of the boxing studio room tested positive for lead paint.

### **5.0 RECOMMENDATIONS**

Many of the hazardous materials identified at the Target Property have been proven to be carcinogenic and would present a considerable risk to worker health and safety if significant exposure was to occur. Therefore, the data presented in this report should be considered during the planning phase of the proposed demolition activities to determine which protocols would be required during the handling and disposal of the encountered hazardous materials.

- No ACBM were encountered during the Regulated and Hazardous Materials Survey. Any suspected ACBM encountered during the demolition activities should be treated as ACBM, unless further testing proves otherwise.

- Based on the results of the LBP inspection, all identified ceiling components found in the boxing studio room should be treated as LBP building components for disposal purposes, unless further testing proves otherwise.
- CEM recommends collecting a representative sample of demolition debris for the purposes of waste characterization prior to disposal. The representative sample(s) should be submitted to a laboratory for analysis according to the Toxicity Characteristic Leaching Procedure (TCLP). Based on the results of the TCLP analysis, the wastes should be handled in accordance with all applicable federal, state and local regulations.

### **6.0 LIMITATIONS AND RESTRICTIONS**

This study was limited to observations made during the inspection of the Target Property. This study was performed to identify potential liabilities associated with the current site conditions. CEM cannot be held liable for the discovery or elimination of hazards encountered that may potentially cause damage, accidents or injuries. The recommendations rendered from work performed in no way eliminate hazards or DAC's obligation to federal, state or local laws. The property owner is solely responsible for notifying the proper authorities of any conditions that violate current laws and regulations.

Data and information regarding current site conditions and operations have been provided in part by DAC, other property owners, and regulatory or permitting agencies. CEM has assumed that all data and reports are complete and factually correct. The conclusions rendered from these data and information are subject to professional opinion, and thus could result in different interpretations. This work has been performed in accordance with generally accepted environmental practices. No other warranty, expressed or implied, is made.

**APPENDIX A**

*LIST OF ACRONYMS*

## ***LIST OF ACRONYMS***

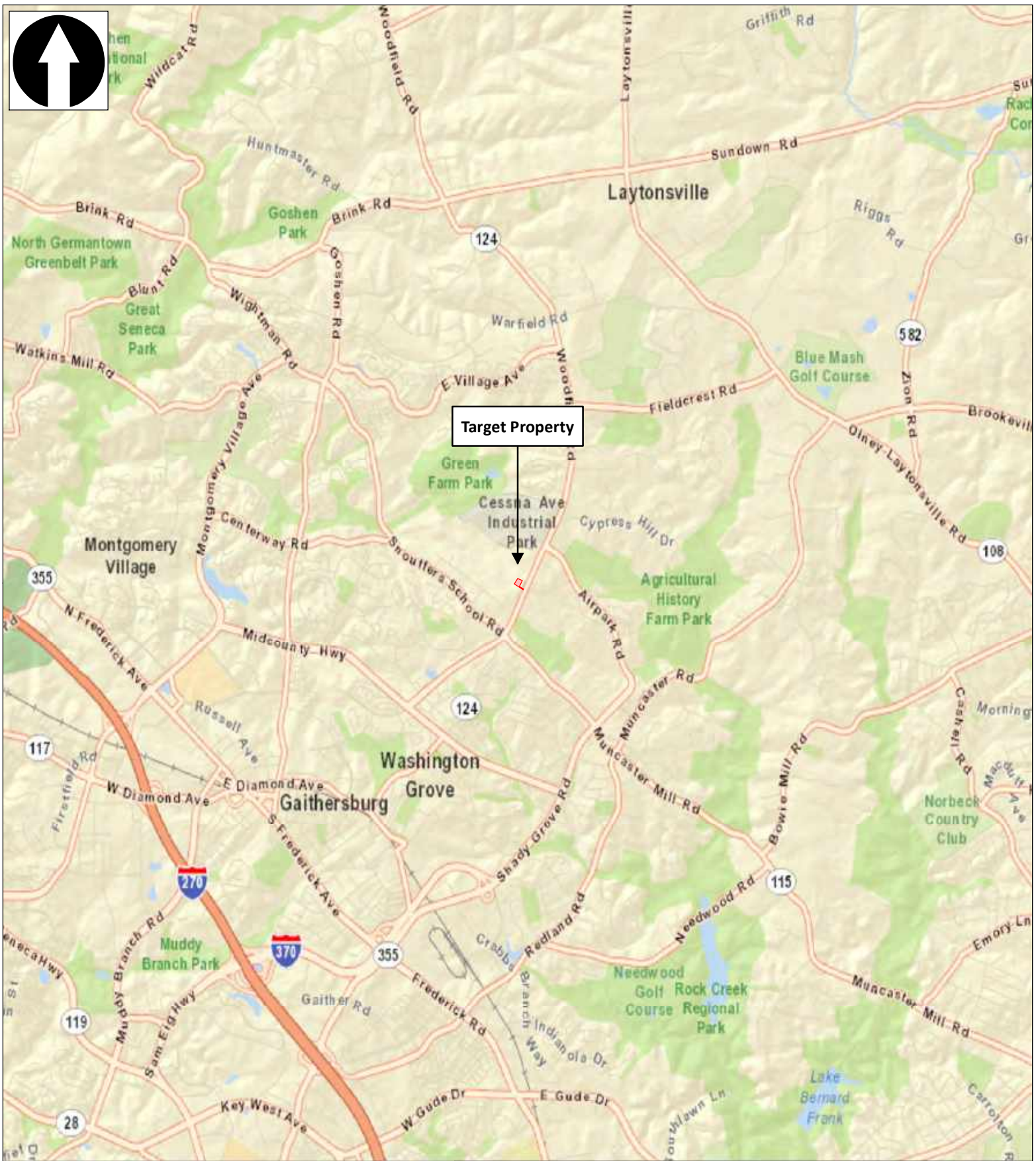
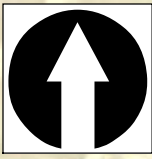
ACBM	Asbestos-Containing Building Materials	OSHA	Occupational Safety and Health Administration
AHERA	Asbestos Hazard Emergency Response Act		
AST	Above-Ground Storage Tank	PCB	Polychlorinated Biphenyls
CEM	Chesapeake Environmental Management, Inc.	PLM	Polarized Light Microscopy
		PPM	Parts per Million
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980	RCRA	Resource Conservation and Recovery Act of 1976
		REC	Recognized Environmental Condition
CFL	Compact Fluorescent Light		
CFR	Code of Federal Regulations	TCLP	Toxicity Characteristic Leaching Procedure
COMAR	Code of Maryland Regulations		
DAC	Delta Airport Consultants	TSI	Thermal System Insulation
EPA	Environmental Protection Agency	UST	Underground Storage Tank
ESA	Environmental Site Assessment	XRF	X-Ray Fluorescence
FAA	Federal Aviation Administration		
HHW	Household Hazardous Waste		
HUD	Housing and Urban Development		
LBP	Lead-Based Paint		
MDE	Maryland Department of the Environment		

**APPENDIX B**


**FIGURES**

*Figure 1 – Target Property Location Map*

*Figure 2 – Target Property Overview Map*



**LEGEND:**

 Target Property (Phase I ESA Target Property #2)

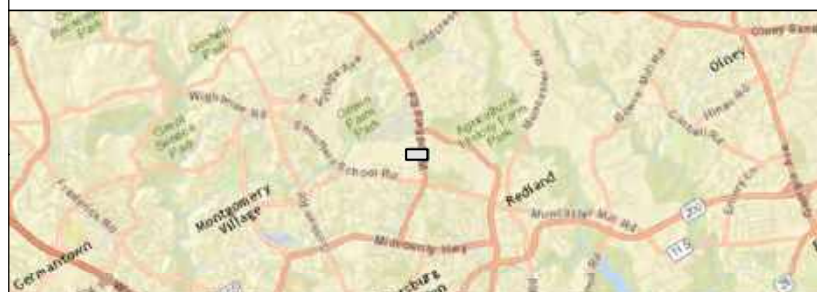
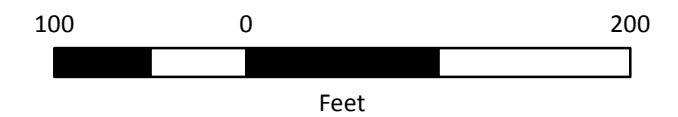
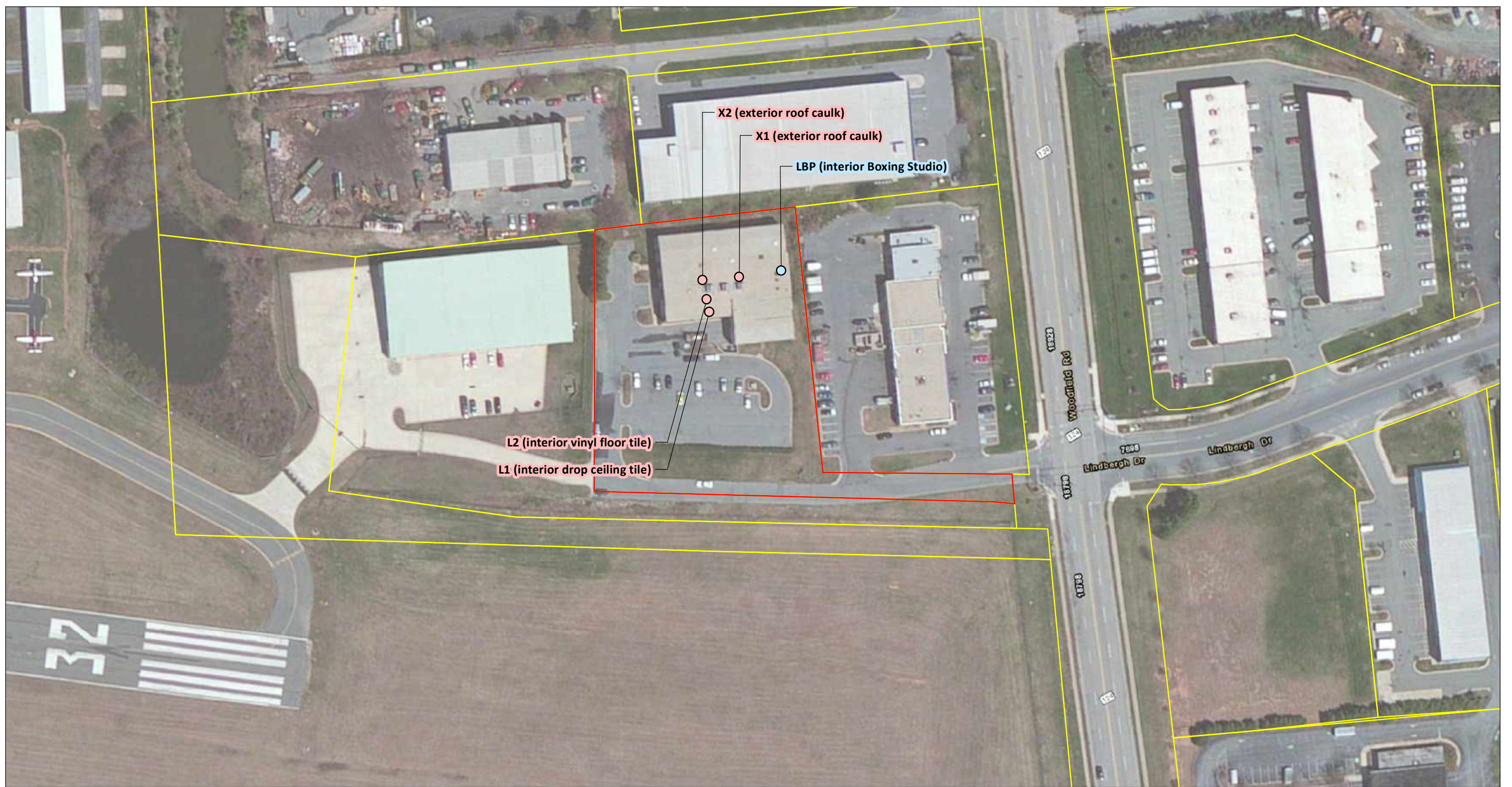


REGULATED HAZARDOUS MATERIALS SURVEY  
Montgomery County Airpark Parcels  
18810 Woodfield Road, Gaithersburg, Maryland

**Map Title:**  
Figure 1  
Target Property Location Map

**Data Source:**  
ESRI

**Date:** July 2016  
**Scale:** 1" = 0.5 mile



**LEGEND:**

- Target Property Boundary
- Adjacent Parcel Boundary
- Asbestos Sampling Points (Positive)
- Lead Sampling Points (Positive)



REGULATED HAZARDOUS MATERIALS SURVEY  
Montgomery County Airpark Parcels  
18810 Woodfield Road, Gaithersburg, Maryland

**Map Title:**  
Figure 2  
Target Property Overview Map

**Data Source:**  
ESRI  
Site Inspection Data

**Date:** July 2016  
**Scale:** 1"=100'

***APPENDIX C***

***SITE PHOTOGRAPHS***





Photo 01 - Front Entrance



Photo 02 - Front of Building



Photo 03 - Interior of Building



Photo 04 - HVAC System on Roof (Samples X1 and X2)



Photo 05 - HVAC System on Roof (Samples X1 and X2)



Photo 06 - HVAC System on Roof (Samples X1 and X2)



Photo 07 - Sprinkler System



Photo 08 - Drop Ceiling Tile (Sample L1)



Photo 09 - Lead-Positive Ceiling (Boxing Studio)



Photo 10 - Lead-Positive Ceiling (Boxing Studio)

**APPENDIX D**

*ANALYTICAL SUMMARY TABLES*

**TABLE 1:  
Asbestos Survey Summary Table**

Sample ID	Bldg	Base Material	Color	Condition	Location	Type	Friable (yes/no)	Estimated quantity	Asbestos Content
L1	18810 Woodfield Rd	Ceiling Tile	White	Good	Storage Closet	Misc.	Yes	160 ft <sup>2</sup>	NAD
L2	18810 Woodfield Rd	Vinyl Floor Tile	Tan	Good	Storage Closet	Misc.	No	60 ft <sup>2</sup>	NAD
X1	18810 Woodfield Rd	Caulk	Gray	Good	Roof - HVAC Unit	Misc.	No	1 ft <sup>2</sup>	NAD
X2	18810 Woodfield Rd	Caulk	Black	Good	Roof - HVAC Unit	Misc.	No	2 ft <sup>2</sup>	N/A*

NAD: No Asbestos Detected

\* - Sample X2 not received by AMA Analytical Services for analysis. Results from X1 provides sampling coverage from HVAC units.

**TABLE 2:**  
**Lead-Based Paint Survey Summary Table**

<b>Sample ID</b>	<b>Bldg</b>	<b>Substrate</b>	<b>Component</b>	<b>Location</b>	<b>Lead Content mg/cm<sup>2</sup></b>
Lead 01	18810 Woodfield Road	Metal	Ceiling	Boxing Studio	1.2

***APPENDIX E***

***ASBESTOS SAMPLING ANALYTICAL RESULTS***



<b>Client:</b>	Chesapeake Environmental Management, Inc.	<b>Job Name:</b>	Montgomery County Airpark	<b>Chain Of Custody:</b>	534165
<b>Address:</b>	42 North Main Street	<b>Job Location:</b>	18810 Woodfield Road	<b>Date Analyzed:</b>	6/21/2016
	Bel Air, Maryland 21014	<b>Job Number:</b>	C2015036.002	<b>Person Submitting:</b>	Daniel Danko
		<b>P.O. Number:</b>	Not Provided		

**Attention:** Daniel Danko

Page 1 of 1

### Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
16113920	L1	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	PC	
16113921	L2	NAD	--	--	--	--	--	--	--	--	--	100	FT	Tan	Homogeneous	PC	
16113922	X1	NAD	--	--	--	--	--	--	2	--	--	98	CK	Gray	Homogeneous	PC	

The following footnotes only apply to those samples which the total asbestos result is flagged with a note number.

- TEM RECOMMENDATION** - Please note, due to resolution limitations with optical microscopy and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos. It is recommended that the additional analytical technique of TEM be used to check for asbestos fibers below the resolution limits of optical microscopy.
- MATRIX REDUCTION RECOMMENDATION** - Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample to minimize the obscuring effects of matrix components, followed by reanalysis by PLM and/or TEM.

Analysis Method - EPA/600/R-93/116 dated July 1993

NAD = "No Asbestos Detected" TR = "Trace equals less than 1% of this component"

Uncertainty: For samples containing asbestos in range of 1-10%  
the CV is 0.43, 11-35% CV=0.55, >35 CV=0.23

All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

Technical Director

Peerawut Chaikenee

Analyst(s)

Peerawut Chaikenee

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NY ELAP, AIHA, NVLAP, NIST, or any agency of the US Federal Government. All rights reserved. AMA Analytical Services, Inc.

NVLAP (101143-0) Accredited Laboratory

4475 Forbes Blvd. • Lanham, MD, 20706 • (301) 459-2640 • Toll Free (800) 346-0961 • Fax (301) 459-2643



**AMA Analytical Services, Inc.**

Focused on Results www.amalab.com

AIHA (#100470) NVLAP (#101143-0) NY ELAP (10920)

4475 Forbes Blvd. • Lanham, MD 20706

(301) 459-2640 • (800) 346-0961 • Fax (301) 459-2643

**CHAIN OF CUSTODY**

(Please Refer To This Number For Inquires)

534165

**Mailing/Billing Information:**

1. Client Name: Chesapeake Environmental Management, Inc.
2. Address 1: 42 N Main Street, Bel Air, MD 21014
3. Address 2: \_\_\_\_\_
4. Address 3: \_\_\_\_\_
5. Phone #: 410 893 9016 Fax #: \_\_\_\_\_

**Submittal Information:**

1. Job Name: Montgomery County Airpark
2. Job Location: 18818 Woodfield Road
3. Job #: C2015036 002 P.O. #: \_\_\_\_\_
4. Contact Person: Daniel Danko @ phone # 410 409 1346
5. Submitted by: Daniel Danko Signature: Daniel Danko

**Reporting Information (Results will be provided as soon as technically feasible):**

<b>AFTER HOURS (must be pre-scheduled):</b> <input type="checkbox"/> Immediate Date Due: _____ <input type="checkbox"/> 24 Hours Time Due: _____ Comments: _____	<b>NORMAL BUSINESS HOURS</b> <input type="checkbox"/> Immediate <input type="checkbox"/> 3 Day <input type="checkbox"/> Next Day <input checked="" type="checkbox"/> 5 Day + <u>6/21/16</u> <input type="checkbox"/> 2 Day Date Due: _____	<b>REPORT TO:</b> <input type="checkbox"/> Include COC/Field Data Sheets with Report <input checked="" type="checkbox"/> Email: <u>DDANKO</u> @ <u>CEMSCIENCE.COM</u> <input type="checkbox"/> Fax: _____ <input type="checkbox"/> Verbal: _____
	<input type="checkbox"/> Results Required By Noon (Every Attempt Will Be Made to Accomodate)	

**Asbestos Analysis**

PCM Air - Please Indicate Filter Type:

- NIOSH 7400 (QTY)
- Fiberglass (QTY)

TEM Air - Please Indicate Filter Type:

- AHERA (QTY)
- NIOSH 7402 (QTY)
- Other (specify \_\_\_\_\_) (QTY)

PLM Bulk

- EPA 600 - Visual Estimate 4 (QTY)
- EPA Point Count 4 (QTY) **NORM**
- NY State Friable 198.1 (QTY)
- Grav. Reduction ELAP 198.6 (QTY)
- Other (specify \_\_\_\_\_) (QTY)

MISC

- Vermiculite
- Asbestos Soil PLM (Qual) PLM (Quan) PLM/TEM (Qual) PLM/TEM (Quan)

TEM Bulk

- ELAP 198.4/Chatfield (QTY)
- NY State PLM/TEM (QTY)
- Residual Ash (QTY)

TEM Dust

- Qual. (pres/abs) Vacuum/Dust (QTY)
- Quan. (s/area) Vacuum D5755-95 (QTY)
- Quan. (s/area) Dust D6480-99 (QTY)

TEM Water

- Qual. (pres/abs) (QTY)
- ELAP 198.2/EPA 100.2 (QTY)
- EPA 100.1 (QTY)

All samples received in good condition unless otherwise noted.  
 (TEM Water samples \_\_\_\_\_ °C)

Metals Analysis

- Pb Paint Chip (QTY)
- Pb Dust Wipe (wipe type \_\_\_\_\_) (QTY)
- Pb Air (QTY)
- Pb Soil/Solid (QTY)
- Pb TCLP (QTY)
- Drinking Water  Pb (QTY)  Cu (QTY)  As (QTY)
- Waste Water  Pb (QTY)  Cu (QTY)  As (QTY)
- Pb Furnace (Media \_\_\_\_\_) (QTY)

Fungal Analysis

- Collection Apparatus for Spore Traps/Air Samples: \_\_\_\_\_
- Collection Media \_\_\_\_\_
- Spore-Trap (QTY)  Surface Vacuum Dust (QTY)
- Surface Swab (QTY)  Culturable ID Genus (Media \_\_\_\_\_) (QTY)
- Surface Tape (QTY)  Culturable ID Species (Media \_\_\_\_\_) (QTY)
- Other (Specify \_\_\_\_\_) (QTY)

**SAMPLE INFORMATION**

CLIENT ID NUMBER	SAMPLE LOCATION/ IDENTIFICATION	VOLUME (LITERS)	WIPE AREA	ANALYSIS							MATRIX				CLIENT CONTACT																
				TEM	PCM	PLM	LEAD	MOLD	AIR	BULK	DUST	WATER AND OTHER	SPORE TRAP	TAPE	SWAB	(LABORATORY STAFF ONLY)															
L1	White 2'x2' Drop Ceiling Tile	6/14/16				X						X																			
L2	Tan 1'x1' Vinyl Floor Tile	6/14/16				X						X																			
X1	Gray Caulk	6/14/16				X						X																			
X2	Black Caulk	6/14/16				X						X																			

**CLIENT CONTACT**

(LABORATORY STAFF ONLY)

Date/Time: \_\_\_\_\_ Contact: \_\_\_\_\_ By: \_\_\_\_\_

Sample X-2 not received

Date/Time: \_\_\_\_\_ Contact: \_\_\_\_\_ By: \_\_\_\_\_

Date/Time: \_\_\_\_\_ Contact: \_\_\_\_\_ By: \_\_\_\_\_

**LABORATORY STAFF ONLY: (CUSTODY)**

1. Date/Time RCVD: 10 / 14 / 16 @ 1300 Via: PO By (Print): NAME Sign: \_\_\_\_\_
2. Date/Time Analyzed: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ @ \_\_\_\_\_ By (Print): \_\_\_\_\_ Sign: \_\_\_\_\_
3. Results Reported To: \_\_\_\_\_ Via: \_\_\_\_\_ Date: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ Time: \_\_\_\_\_ Initials: \_\_\_\_\_
4. Comments: \_\_\_\_\_

**APPENDIX F**

**LEAD-BASED PAINT SAMPLING RESULTS**



Comprehensive  
Inspection  
and  
Consulting  
Services

June 20<sup>th</sup>, 2016

Brownfield  
Redevelopment

Mr. Joseph Sawicki, PG  
Chesapeake Environmental Management, Inc.  
42 North Main Street  
Bel Air, MD 21014

Asbestos/  
Lead-Based Paint

IAQ/Mold

**RE: 18810 Woodfield Road; Gaithersburg, Maryland 20879**

Risk Assessment

Dear Mr. Sawicki,

Phase I ESAs

Arc Environmental performed a lead-based paint inspection at the property referenced above on June 14<sup>th</sup>, 2016. The purpose of this inspection was to determine the lead concentrations of representative painted building components located throughout the property. This inspection was performed by Mr. Sean Walter; a State of Maryland accredited Lead-based Paint Inspector (MDE#15757).

Design/Build

Monitoring

Regulatory  
Compliance and  
Negotiation

A RMD LPA-1 x-ray fluorescence ("XRF") spectrum analyzer, serial #2613, was utilized in the "quick" mode to perform the testing. Initial and final calibration check readings were completed to ensure the XRF instrument remained within acceptable precision and accuracy levels throughout the entire inspection process.

USTs/ASTs

Site  
Characterization  
and Remediation

As detailed on the "XRF Lead-Based Paint Inspection Data" sheets, the following components were found to contain lead concentrations that exceeded the Maryland standard of  $>0.7$  mg/cm<sup>2</sup>:

Hazardous  
Waste Sites  
(CERCLA/RCRA)

- boxing studio – ceiling

Building  
Assessments

For a complete listing of all the XRF readings, please refer to the attached "XRF Lead-Based Paint Inspection Data" sheets. Any renovation, remediation, or improvement projects performed on this property that will impact the boxing studio ceiling should do so in accordance with the applicable federal, state, and local regulations governing the disturbance of lead-based paint.

Offices

If you have questions, comments, or concerns about the material presented in this letter, please do not hesitate to contact us at (410) 659-9971.

Baltimore, MD

Respectfully Submitted,

Washington, DC

  
Chris White  
Division Manager

# XRF Lead-Based Paint Inspection Data



Client: Chesapeake Environmental Address: 18810 Woodfield Road ; Gaithersburg , MD

date: 6/14/16

	fringes	front store	office hallway	front right office	rear right office	rear right office	Electric Storage	Kids Club	Kids Club BA	Main Gym	Bayou Studio
door	A 0.0	V 0.0	C 0.0	C 0.0	A 0.0	A 0.0	B 0.0	D 0.0	A 0.0	A 0.0	B 0.4
door casing											
door jamb	↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ ↓	↓ 0.5
door transom											
window sash											D 0.0
window sill				A 0.0	B 0.0	nc		B 0.0			D 0.0
window casing											
window well											
baseboard											
A wall	A NC	A 0.0	A 0.0	A 0.0	A 0.0	A 0.0	A 0.0	A 0.0	A 0.0	A 0.0	A 0.4
B wall	B 0.0	D ↓	B ↓	B ↓	B ↓	D ↓	B ↓	D ↓	B ↓	D ↓	B 0.0
C wall	C NC	C ↓	C ↓	C ↓	C ↓	C ↓	C ↓	C ↓	C ↓	C ↓	C 0.0
D wall	D 0.0	D ↓	D ↓	D ↓	D ↓	D ↓	D ↓	D ↓	D ↓	D ↓	D 0.0
ceiling	-	- 0.0	- 0.0	- ↓	- ↓	- ↓	- ↓	- ↓	- ↓	- ↓	- 1.2
closet door								C 0.0			
closet door jamb								↓ ↓			
closet door casing								↓ ↓			
closet shelf											
closet shelf support								↓ ↓			
radiator											
crown molding		D 0.0									
chair rail											
mantle											
tub											
floor	- 0.0	- 0.0	- 0.0	- 0.0	- 0.0	- 0.0	- 0.0	- 0.0	- 0.0	- 0.0	
cabinet											
Wainscot								C 0.0			
Wainscot											D 0.0
↓ Beam											- 0.2
Pass										- 0.0	
steel supports										- 0.0	

Grid fields indicate the test location and the sample reading (given in units of milligram per square centimeter). Component Code Key: NC = No component; NP = Not painted; CAR = Carpeted; COV = Covered.

Initial Calibration Check: 1) 0.8 2) 0.8 3) 0.8	Average = 0.8	Pass or Fail
Final Calibration Check: 1) 0.8 2) 0.8 3) 0.8	Average = 0.8	Pass or Fail

# XRF Lead-Based Paint Inspection Data



Client: Chesapeake Environmental Address: 18810 Woodfield Road, Gaithersburg, MD

date: 6/14/16

	Front Ext	Right Ext	Rear Ext	Left Ext	Main Floor	1st	2nd Hall	Utility St	F. Class	M. class	
door	A 0.0	B 0.0	C 0.1	D 0.1	C 0.0			A 0.0	C 0.0	B 0.0	
door casing	↓	↓	↓ 0.3	↓ 0.2	↓			↓	↓	↓	
door jamb	↓	↓	↓ 0.3	↓ 0.2	↓			↓	↓	↓	
door transom											
window sash	A 0.0	B 0.0	C 0.0						A 0.0		
window sill									A 0.0		
window casing											
window well											
baseboard											
A wall	A NP				A 0.0	A 0.0		A 0.0	A 0.0	A 0.0	
B wall		B NP			B ↓			B ↓	B ↓	B ↓	
C wall			C 0.4		C ↓			C ↓	C ↓	C ↓	
D wall				D 0.4	D ↓			D ↓	D ↓	D ↓	
ceiling		- 0.0			- NC			- ↓	- ↓	- 0.0	
closet door									C 0.0		
closet door jamb									↓	↓	
closet door casing									↓	↓	
closet shelf											
closet shelf support									↓	↓	
stair tread						B cov		D NP			
stair riser						B cov		D 0.2			
stringer						A 0.0		C 0.0			
newel post						A 0.0					
handrail						D 0.0		C 0.0			
baluster											
floor joist											
foundation	A NP	B NP	C 0.4	D 0.4							
fence											
porch ceiling											
porch header	A NP										
porch post											
porch floor											
corner beam	A 0.0										
Pole	A 0.0										
Down Spout	A 0.0										
Service Door	A 0.0										
Door C	A 0.1										
Lintel	A 0.1										

# XRF Lead-Based Paint Inspection Data



Client: Chesapeake Environmental Address: 18810 Woodfield Road ; Gaithersburg , MD

date: 6/14/14

	Splinter Room		F. Class stair		F class office		Roof	Mens LR	Womens LR	Cycle Floor				
door	A	0.0	B	0.0	C	0.0	-	0.0	NC	NC	B	0.0		
door casing	↓	↓	↓	↓	↓	↓		C	0.0	A	0.0	↓	↓	
door jamb	↓	↓	↓	↓	↓	↓		C	0.0	A	0.0	↓	↓	
door transom														
window sash														
window sill														
window casing														
window well														
baseboard														
A wall	A	0.0	A	0.0	A	0.0		A	0.0	A	0.0	A	0.0	
B wall	B	↓	B	↓	D	↓		B	↓	B	↓	B	↓	
C wall	C	↓	C	↓	C	↓		C	↓	C	↓	C	↓	
D wall	D	↓	D	↓	D	0.0		D	↓	D	↓	D	↓	
ceiling	-	↓	-	↓	-	0.0		-	↓	-	↓	-	↓	
closet door														
closet door jamb														
closet door casing														
closet shelf														
closet shelf support														
stair tread			D	0.0										
stair riser			D	0.0										
stringer			A	0.0										
newel post														
handrail			A	0.0										
baluster														
floor joist														
foundation														
fence														
porch ceiling														
porch header														
porch post														
porch floor														
LEADER							-	0.0						
Pipe							-	0.0						

**THIS IS TO CERTIFY THAT**  
**Arc Environmental, Inc.**

**HAS MET THE LEAD PAINT SERVICES  
ACCREDITATION REQUIREMENTS FOR**

**Lead Paint Inspection Contractor**

**04 08 2018**

**EXPIRATION DATE** \_\_\_\_\_

**TRAINING PROVIDER** \_\_\_\_\_

*Arlene Miller*  
ADMINISTRATOR, LEAD PAINT ACCREDITATION  
MARYLAND DEPARTMENT OF THE ENVIRONMENT

2/5/14  
DATE

**COURSE DATE** \_\_\_\_\_

**STATE OF MARYLAND**

**Certificate #** 4459

Application for reaccreditation shall be submitted to MDE 60 days prior to accreditation expiration indicated on this certificate.

THIS IS TO CERTIFY THAT

Christopher John White

HAS MET THE LEAD PAINT SERVICES  
ACCREDITATION REQUIREMENTS FOR

Risk Assessor

04 08 2018

EXPIRATION DATE

TRAINING PROVIDER Aerosol Monitoring & Analysis,  
Inc.

*Hilary Miller*

ADMINISTRATOR, LEAD PAINT ACCREDITATION  
MARYLAND DEPARTMENT OF THE ENVIRONMENT

2/5/16

DATE

04 27 2015

COURSE DATE

STATE OF MARYLAND

7474

Certificate #

Application for reaccreditation shall be submitted to MDE 60 days prior to accreditation expiration indicated on this certificate.



**THIS IS TO CERTIFY THAT**

**Sean Donovan Walter**

**HAS MET THE LEAD PAINT SERVICES  
ACCREDITATION REQUIREMENTS FOR**

**Inspector Technician**

**05 31 2018**

**EXPIRATION DATE**

**TRAINING PROVIDER** Aerosol Monitoring & Analysis,  
Inc.

*Hilary Miller*

**ADMINISTRATOR, LEAD PAINT ACCREDITATION  
MARYLAND DEPARTMENT OF THE ENVIRONMENT**

*6/3/16*

**DATE**

**03 28 2016**

**COURSE DATE**

**STATE OF MARYLAND**

**15757**

**Certificate #**

Application for reaccreditation shall be submitted to MDE 60 days prior to accreditation expiration indicated on this certificate.

# **APPENDIX E**

Preliminary Design Engineering Report



# Concept Plan Narrative & Calculations

## *Supplemental Environmental Assessment Land Acquisition and Obstruction Removal*

Montgomery County Airpark  
Gaithersburg, Maryland

AIP\*PrÚéğ \*NÚ.\* A\*14115\*  
MAA\*PrÚéğ \*NÚ.\*MAA-GR-16-013\*  
Del a\*PrÚéğ \*NÚ.\* A\*14115\*  
+

Final\*Su ! i al\*\* #ul\$\*%01&\*

Pre' are( \*FÚr''\*  
MÚn ) Ú! er\$\*\*Úun \$\*Re+enue\*Au , Úri \$\*  
101\*MÚnrÚe\*S ree -\*Sui e\*410\*  
RÚg. +ille-\*Mar\$lan( \*%0/50\*  
0011\*86%20/0\*  
+

Pre' are( \*3\$''\*  
Del a\*Air' Úr \*\*Ún4ul an 4\*  
2&11\*Farrar\*\*Úur -\*Sui e\*100\*  
Riğ, ! Ún( -\* A\*%3%36\*  
Q/041\*%85-/301



## Table of contents

Índice de contenidos	2
Introducción	7
Objetivos	10
Marco conceptual	10
Alternativas de financiación	10
Organización del curso	11
Metodología	11
Resumen	11
Índice de contenidos	12

## Índice de contenidos

Índice de contenidos	2
Índice de contenidos	7
Índice de contenidos	6
Índice de contenidos	6

## A99en1" es

A99en1'x 1	Índice de contenidos
A99en1'x 2	Índice de contenidos
A99en1'x 2	Índice de contenidos
A99en1'x 7	Índice de contenidos
A99en1'x :	Índice de contenidos



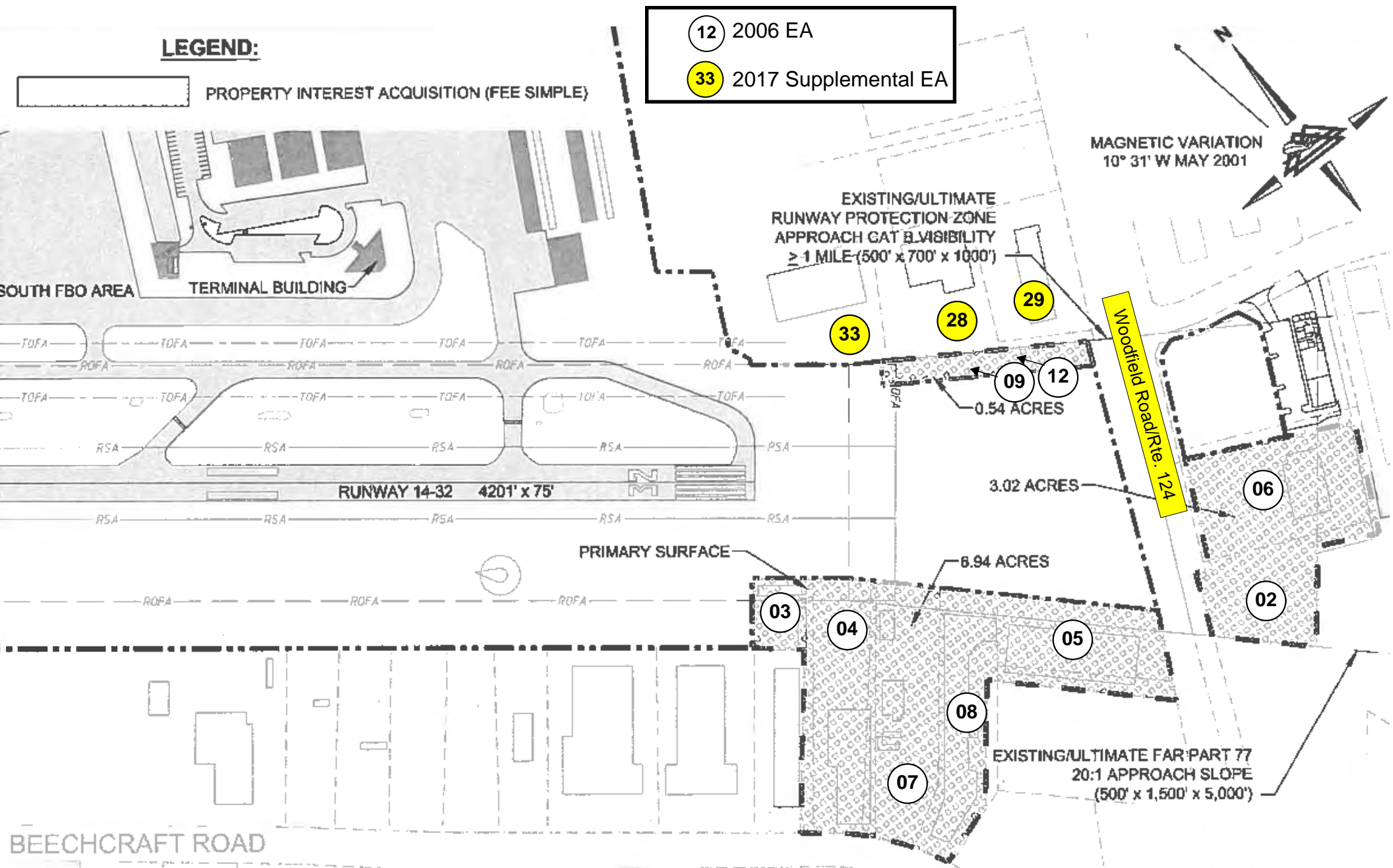
## Íxé ! t'#e \$! %%a&

T5e Mont\*o%e& o!nt' A"9a& <ÚA = 's a \*ene&al a#"at'on a"9o& 'h Úa't5e&b! &/Ma&lan1 + 5" 5 's o+ ne1 an1 o9e&ate1 b' t5e Mont\*o%e& o!nt' Re#en!e A!t5o&t' <M RA=( T5e A"9a& 's lo ate1 a99&ox'%atel' t5&e %'les f&o% t5e 't' of Úa't5e&b! & an1 's a ess'ble f&o% Ma&lan1 Ro!te 127/#'b A"9a& Roa1(T5e&e 's one & n+ a' at t5e A"9a&/R! n+ a' 17>22/+ 5" 5 's 7/202?lon\* an1 7: ?+ '1e(

An kn#%on%ental Assess%ent <A=+ as o%9lete1 an1 a . 'h1'h\* of + o \$\*"n"r" ant %9a t < O+ \$=+ as 'ss! e1 b' t5e . e1e&al A#"at'on A1%'h'st&at'on < AA='h 2000/fo&9&9ose1 '%9&#e%ent 9&@ ts at ÚA 'h !l1'h\* t5e \*&a1'h\* of te&a'h an1 b! 'l1'h\*s + 't5'h t5e 9&ote te1 a"9a e fo&R! n+ a' 17>22 an1 t5e el%'hat'on of obst& t'ons to t5e 17 o1e of . e1e&al Re\*! lat'ons < . R=Pa& 77 s! &a es( 17 . R Pa& 77 &\*! lates t5e safe/eff" 'ent ! se/an1 9&ese&at'on of na#"\*able a"9a e(

T5e 2000 kA '1ent'f'e1 t5e ex't'h\* a ess &a1 + 5" 5 9&#1es a ess f&o% Pa&els 22/26/an1 2, to 8 oo1f'e1l Roa1 <State Ro!te 127=as a 9enet&at'on to t5e Pa& 77 9&%a& s! &a e an1 a #'olat'on to R! n+ a' Ob@ t . &ee A&ea <RO. A=1es"\*n stan1a&ls/an1 t5e 9a& 'h\* lot on Pa&el 26 as a 9enet&at'on to t5e Pa& 77 t&ans't'onal s! &a e( T5e 2000 kA & o%%en1e1 t5at bot5 t5e &a1 an1 t5e 9a& 'h\* lot be lo+ e&e1 to % 't"\*ate t5e 9enet&at'ons( . '\*! & 1 1e9" ts t5e 9a&els + 't5'h t5e 9&@ t st! 1' a&eas(





Source of base exhibit: Exhibit 2-4, 2006 EA

## Figure 1, 2006 EA and 2017 Supplemental EA Study Areas

Montgomery County Airpark (GAI)  
 2017 Supplemental Environmental Assessment



not to scale

A Preliminary Engineering Alignment Report for the proposed project in 2011. The report details the project's location, scope, and the engineering work performed. It includes a description of the project area, the engineering team, and the results of the engineering work. The report is intended to provide a clear and concise overview of the project and the engineering work performed.

The report is a preliminary engineering alignment report for the proposed project in 2011. It provides a detailed description of the project area, the engineering team, and the results of the engineering work. The report is intended to provide a clear and concise overview of the project and the engineering work performed.

The report is a preliminary engineering alignment report for the proposed project in 2011. It provides a detailed description of the project area, the engineering team, and the results of the engineering work. The report is intended to provide a clear and concise overview of the project and the engineering work performed.

The report is a preliminary engineering alignment report for the proposed project in 2011. It provides a detailed description of the project area, the engineering team, and the results of the engineering work. The report is intended to provide a clear and concise overview of the project and the engineering work performed.

The report is a preliminary engineering alignment report for the proposed project in 2011. It provides a detailed description of the project area, the engineering team, and the results of the engineering work. The report is intended to provide a clear and concise overview of the project and the engineering work performed.



The existing access route to the Parcel 28 and 29 is not of the same quality as the Parcel 27. The Parcel 27 is a paved road with a 12-foot clearance over the existing utility lines. The Parcel 28 and 29 are currently accessed via a dirt road that crosses over the utility lines. The proposed access road for the Parcel 28 and 29 would be a paved road with a 15-foot clearance over the utility lines.

The existing access route to the Parcel 28 and 29 is not of the same quality as the Parcel 27. The Parcel 27 is a paved road with a 12-foot clearance over the existing utility lines. The Parcel 28 and 29 are currently accessed via a dirt road that crosses over the utility lines. The proposed access road for the Parcel 28 and 29 would be a paved road with a 15-foot clearance over the utility lines.

**After taking into account both MDOT and FAA design standards, the design effort found that providing 15' of clearance is possible by re-grading the entire site of Parcels 28 and 29, shifting the road entrance northward, and constructing a maximum 6 percent grade for the access road to Route 124.**

In January 2017, the design team conducted a site visit to the Parcel 28 and 29. The site visit confirmed the existing conditions and the proposed access road location. The design team also reviewed the MDOT and FAA design standards to ensure the proposed access road meets the required clearance and grade requirements.

The design team has reviewed the MDOT and FAA design standards and has determined that providing 15 feet of clearance is possible. This can be achieved by re-grading the entire site of Parcels 28 and 29, shifting the road entrance northward, and constructing a maximum 6 percent grade for the access road to Route 124.

The design team has also reviewed the MDOT and FAA design standards and has determined that providing 15 feet of clearance is possible. This can be achieved by re-grading the entire site of Parcels 28 and 29, shifting the road entrance northward, and constructing a maximum 6 percent grade for the access road to Route 124.

**In conclusion, shifting the road entrance in order to provide 15' clearance required by 14 CFR Part 77 for public roads is feasible. The project to construct the shifted access road will require intersection analysis, engineering design, and approval from the Maryland State Highway Administration.**

The design team has reviewed the MDOT and FAA design standards and has determined that providing 15 feet of clearance is possible. This can be achieved by re-grading the entire site of Parcels 28 and 29, shifting the road entrance northward, and constructing a maximum 6 percent grade for the access road to Route 124.





\$8 M>κ\$) 9& t" es/ 't + as e#"1ent t5at non-8oofto9 1's onne t an1 \*8asse1 s+ ale + e& t5e %ost  
a99&9&ate9& t" es t5at o! l1 be ! t!"Ee1 at t5's s'te( T5e on e9t! al sto&+ ate&1es"\*n 'h l! 1e1 'h t5's  
&e9o& + 'll be oo& 'hate1 + 't5 Mont\*o%e& o! nt' an1 M) k 1! &n\* t5e 1es"\*n 95ase/an1 sto&+ ate&  
%t"\*at'on 9& t" es + 'll be onf'8%e1 at t5at t"%e(



## \$'te ) es'\*n

T5e st! 1' a&ea 'h !! 1es Pa&els 22/26/an1 2, /t5&e 9&#atel' -o+ ne1 9a&els a1@ ent to t5e A"9a& <see . '\*! &es 1 t5&0! \*5 7= T5e 9a&els a&e 5ea#'' 1e#elo9e1 + 't5 'h1! st&al-t' 9e ! ses( Pa&el 22 's o+ ne1 b' 8 (M(R" ;%an onst& t'bn o/LL an1 5o! ses an a'& &ft 5an\*a& Pa&el 26 's o+ ne1 b' PG A"9a& LL + 't5 one t+ o-sto& b! 'l1'h\*/ !&ent! ! se1 as a \*' %( Pa&el 2, 's a on1o%'h!' % b! s'hess + 't5 t5&e b! s'hesses/o+ ne1 b' Me&5a C 7 LL (



Figure 2: Access Road to Parcel 33 and Hangar, facing northwest





*Figure 3: Parcel 28, facing northeast*



*Figure 4: Parcel 29, facing northeast toward Woodfield Road*



As 9&#b' sl' state/9o&'ons of t5e ex't'h\* a ess &a1 t5at 9&#1e a ess to Pa&els 22/26 an1 2, a& !&entl' obst& t'ons to t5e Pa& 77 s! &a e of R! n+ a' 17-22(

T5e 2011 P&R state1 t5at M) OT 1es"\*n stan1a&ls l%'t &a1+ a' ente&he 9&of'le \*&1es a99&a 5'h\* an 'hte&e t'on to a %ax'!% of : 9e&ent( T5e st! 1' on !! 1e1 t5at t5e 1: feet lea&an e fo&9! bl" &a1s o! l1 not be %et 'f t5e 9&@ t + e& 1es"\*ne1 to onfo&% to bot5 M) OT an1 . AA Pa& 77 &C! "%e%ents( T5e 9&#b' s st! 1' 1'1 not a99ea&to ons'le&&-\*&1'h\* t5e ent"& s'te fo&f! t! &e a"&el1 1e#elo9%ent to %eet t5e Pa& 77 &C! "%e%ents(

T5e !&ent M) OT k&nt&an e ) es"\*n \$tan1a&ls/ Section 11.3.1 Maximum Grade, state t5at t5e 9&of'le fo& t5e f'&st 70 feet of an ent&an e %! st be at 2 9e&ent o&less/an1 0 9e&ent fo&t5e next 70 feet( T5e M) OT stan1a& fo&Ú&a1e D&a; s 's 6 9e&ent bet+ een \$tate 4 '\*5+ a' 9a#e%ent an1 t5e k&nt&an e P&of'le( T5e !&ent on e9t Plan ! t'l'Ees t5e M) OT k&nt&an e ) es"\*n \$tan1a&ls an1 5as a %ax'!% 0 9e&ent ente&he \*&1e(

n a11't'on to M) OT stan1a&ls/t5's P&R e#al! ates t5e s'te \*&1'h\* an1 a ess &a1 al"\*n%ent to %eet 17 . R Pa& 77 stan1a&ls/+ 5" 5 &C! "%e t5at at least 10 feet of lea&an e be 9&#1e1 o#e&9&#ate &a1s an1 1: feet lea&an e o#e&9! bl" &a1s/to a o%o1ate t5e 5e"\*5t of t5e 5"\*5est %ob'le ob@ t t5at + o! l1 no&%all' t&a#e&e t5e &a1( T5e 9&9ose1 on e9t allo+ s t5e a ess &a1 1: feet of lea&an e belo+ t5e Pa& 77 \$! &a e/+ 5" 5 + o! l1 allo+ #e5" les to ! t'l'Ee t5e a ess &a1 as a 9! bl" &a1 + 't5o! t 9enet&at'h\* t5e a"&9a e( A99en1'x 1 1e9" ts t5e &oss \$e t'ons fo&t5e 9&9ose1 s'te \*&1'h\* as + ell as t5e 1: feet of lea&an e(

T5e \*&1'h\* 9lan also e#al! ate1 t5e a&ea fo&9otent'al f! t! &e non-ae&ona! t" al &e#en! e 9&0! 'h\* 1e#elo9%ent fo&t5e a"&9o&( T5e ent"&e s'te + as lo+ e&e1 ! s'h\* a 2 to 1 slo9e to allo+ fo&f! t! &e a"&el1 1e#elo9%ent beneat5 t5e Pa& 77 \$! &a e( T5's a&ea o! l1 9otent'all' be enla&e1 to allo+ fo&a11't'onal b! 'l1able s9a e ! s'h\* a &eta'h'h\* + all lo ate1 at t5e 9&9e&' l'he( T5e 9&9ose1 &elo ate1 a ess &a1 's also &C! "%e1 to %eet RO. A an1 RPF stan1a&ls( . AA 1es"\*n stan1a&ls &C! "%e lea&h\* t5e RO. A of abo#e- \*&0! n1 ob@ ts 9&ot& 1'h\* abo#e t5e nea&est 9o'ht of t5e R! n+ a' \$afet' A&ea <R\$A=/ot5e&t5an ob@ ts t5at nee1 to be lo ate1 'h t5e RO. A fo&a"&na#'\*at'bn o&a"&ft \*&0! n1 %ane! #e&h\* 9! &9oses/ an1 a"&ft + 5" 5 a&e tax'h\* o&5o!1'h\*( T5e a&ea + 't5'h t5e RO. A a&e to be \*&1e1 to %eet . AA 1es"\*n stan1a&lsHt5's 's to 'h !! 1e t5e &elo at'bn of an ex't'h\* fen e an1 ex't'h\* abo#e- \*&0! n1 ! t'l't'es( RPZs s5o! l1 be ; e9t lea&of 9eo9le an1 9&9e&' on t5e \*&0! n1 to 9&#ent 'h o%9at'ble ob@ ts an1 a t'#"t'es + 't5'h 'ts bo! n1a&es( T5e 9&9ose1 &a1 &elo at'bn %a'nta'hs 1es"\*n stan1a&ls + 't5'h t5e RPF/'h !! 1'h\* &e%o#h\* t5e a ess &a1 f&0% + 't5'h 'ts bo! n1a&es(

## Štor%+ ate&) es"\*n

T5's 9&el%'ha& 1es"\*n effo& e#al! ate1 t5e 9&9e&' O! tfalls/ k&n#&on%ental \$'te ) es"\*n 9&a t" es/ an1 9&el%'ha& \$to&% \$e+ e&s'E'h\* al ! lat'ons( al ! lat'ons an1 ex'5'b'ts an be fo! n1 on t5e on e9t Plan \$5eets/ an1 atta 5e1 a99en1" es <see A99en1" es 2 an1 2=( T5e \$to&%+ ate&) es"\*n + as base1 on stan1a&ls of k\$) an1 Ma&lan1 \$tate sto&%+ ate&stan1a&ls( T5e + ate&C! a'tt' %eas! &es t5at a&e 9&9ose1 + 't5 t5's on e9t 9lan a&e non-&ofto9 1's onne t an1 \*&ass s+ ales( T5e \$to&%+ ate&) es"\*n 's s! %a&Ee1 belo+ 3



## O! tfalls

T+ o 9o'hts of o! tfall fo&sto&+ ate&& noff + e&e 'lent'f'e1 on t5e 9&@ t s'te( . lo+ f& % t5e t+ o o! tfalls @'h a t&b! ta& to ab'h D&an 5 s5o&' afte&ex't'h\* a"9&o& 9&9e&' ( T5ese t+ o o! tfalls a&e s5o+ n on \$5eet 2 of t5e on e9t Plan <see A99en1'x 2=

O! tfall 1 sto&+ ate&& noff ex'ts a"9&o& 9&9e&' f& % a 9on1/+ 5" 5 's not lo ate1 + 't5'h t5e st! 1' a&ea( T5e o! tflo+ ente& 'hto an off-s'te sto&+ ate&& ana\*e%ent <\$ M=bas'h '%%e1'atel' 1o+ nst&ea%(

O! tfall 2 ex'ts at t5e no&5 s'1e of t5e R" ; %an 9&9e&' an1 ont'h! es alon\* a s+ ale to t5e \$8 M bas'h '%%e1'atel' 1o+ nst&ea%(

## kn#"8on%ental \$'te ) es"\*n P& ess

T5e sto&+ ate& on e9t 9lan fo&t5's 9&@ t + as 1e#elo9e1 ! s'h\* t5e 9&h '9les of k\$) (

Dase1 on t5e Ma&lan1 \$to&+ ate&) es"\*n Man! al 5a9te&: / *Environmental Site Design Section 5.5.2* / t5's 9&@ t %eets t5e Re1e#elo9%ent &te&a base1 on t5e ex'st'h\* 70! of t5e s'te be'h\* '%9e&#b! s \*&! n1 o#e& T5e ex'st'h\* s'te onta'hs o%%e&'al b! 'l1'h\*s an1 '%9e&#b! s 9a& 'h\* lots <see A99en1'x 7= T5e Re1e#elo9%ent &te&a &eC! "es t5at a o'b'hat'on of '%9e&#b! s a&ea &e1! t'on an1 k\$) '%9le%entat'on fo&at least : 0! of t5e ex'st'h\* '%9e&#b! s a&ea( \$'h e t5's 9&@ t 5as a 9&9ose1 &e1! t'on 'h '%9e&#b! s a&ea/ t5e t&eat%ent a&ea 's &e1! e1( T5's 1e &ease 'h s'te '%9e&#b! s a&ea 's sl bt&a te1 f& % t5e : 0! ex'st'h\* '%9e&#b! s a&ea t5at %! st be t&ate1 t5&! \*5 k\$) 9& t" es(

A ta&et k\$) #o! %e + as al ! late1 ! s'h\* A& ate&Reso! &es Te 5n" al Pol" ' \* o( : B/ 9&@! e1 b' t5e Mont\*o%e& o! nt' ) e9a&%ent of Pe& 'tt'h\* \$e&# es( Pk + as 1ete& 'he1 b' e#al! at'h\* t5e 9&@ t l' %'ts/ t5e a%o! nt of '%9e&#b! s a&ea <ex'st'h\* an1 9&9ose1 =/ an1 t5e 9e&enta\*es of 1'ffe&ent 5' 1&olo\*" so'! \*&! 9 o#e& t5at a&e 9&esent( Pk + as t5en a99!e1 to t5e 9&9ose1 1'st! &e1 a&ea as a &es! It of t5e 9&@ t( Rg + as 1ete& 'he1 base1 on t5e 1ens't' of '%9e&#b! sness 'hs'1e t5e 9&9ose1 1'st! &e1 a&ea( Res! Its an1 ba ; ! 9 fo&t5e al ! lat'on of t5e k\$) #o! %e an be fo! n1 on \$5eet 2 of t5e &e#se1 on e9t Plan(

Afte& al ! lat'h\* t5e ta&et k\$) #o! %e/ \$8 M 9& t" es <t5at C! al'f' as k\$) 9& t" es+= e&e e#al! ate1 fo& 9& t" al't' ( T5e follo+ 'h\* 's a s! %a& of t5's &e9o& &e#al! at'on of t5e \$8 M 9& t" es3

## Alte&nat'he \$! &a es

Alte&nat'he s! &a es 'h !! 1e Ú&en Roofs/Pe&eable Pa#e%ents/an1 Re'hfo&e1 T! &(

Ú&en Roofs + e&e el' %'hate1 s'h e t5e& a&e no 9&9ose1 b! 'l1'h\*s 'h t5e '%%e1'ate fl! t! &(

Pe&eable Pa#e%ents an1 Re'hfo&e1 T! & + e&e also el' %'hate1( T5ese s! &a es + o! l1 not 5a#e t5e st&en\*t5e ne essa& to se&e t5e #e5" le loa1s ant" '9ate1 fo&t5e o+ ne&of Pa&el 22(



## + on-št& t! &al

+ on-št& t! &al 9& t" es t5at + e& e#al! ate1 'h !! 1e1 ) 's onne t'bn of Roofto9 R! noff/) 's onne t'bn of  
+ on-Roofto9 R! noff/an1 \$5eetflo+ to onse&#at'bn A&eas(

) 's onne t'bn of Roofto9 R! noff + as el%'hate1 as t5e& a& no 9&9ose1 b! 'l1'h\*s 'h t5e '%%e1'ate  
f! t! &(

\$5eetflo+ to onse&#at'bn A&eas + as fo! n1 not to be an o9t'bnHt5e& a& no onse&#at'bn A&eas + 't5'h  
t5e 9&@ t l%'ts(

) 's onne t'bn of + on-Roofto9 R! noff + as fo! n1 to be a 9& t" al sol! t'bn t5at o! l1 be ! t'l'Ee1 alon\* t5e  
len\*t5 of t5e P&9ose1 A ess &a1( T5's + o&s 9a&" ! la&' + ell 'h t5e \*&ass s5o! l1e& of t5e &a1(

Ú&asse1 \$+ ale + as fo! n1 to be 9& t" al 'h l'e! of ! & an1 \*! tte&fo&t5e a ess &a1( T5e Ú&asse1 \$+ ale  
Sannel + o! l1 9&# '1e on#e' an e/+ ate&C! al't' t&eat%ent of t5e \$to&+ ate&

## M" &-š ale

M" &-s ale 9& t" es t5at + e& e#al! ate1 'h !! 1e1 Ra'h+ ate&4a&#est'h\*/ \$! b%e&\*e1 Ú&#el 8 etlan1s/  
Lan1s a9e nf'lt&at'bn/ nf'lt&at'bn De&s/ ) & 8 ells/ M" &-D'o&tent'bn/ Ra'h Ú&alens/ \$+ ales/ an1  
kn5an e1 . 'lte&( Ú&ass s+ ales + e& fo! n1 to be #'able(

Ra'h+ ate&4a&#est'h\* + as 1ete&'he1 to be not a99l" able to t5e 9&@ t/ as t5e& a& no 9&9ose1  
b! 'l1'h\*s 'h t5e '%%e1'ate f! t! &( T5's el%'hates t5e so! &es of olle t'bn fo&&hfall 5a&#est'h\*(

\$! b%e&\*e1 Ú&#el 8 etlan1s + e& fo! n1 to be a #'able 1es"\*n o9t'bn b! t + e& not sele te1 'h t5e 'h't'al  
1es"\*n( T5e 9e&fo&an e of a s! b%e&\*e1 \*&#el + etlan1 's t'e1 to t5e ! se of + etlan1 9lants(

Lan1s a9e nf'lt&at'bn 's 9oss'ble + 't5 t5e a99&9&ate 9lant'h\*s t5at 1o not att& t + 'l1'feH5o+ e#e&fo&  
t5's 9&@ t \*&ass s+ ales an1 non-oofto9 1's onne t + e& fo! n1 to be %o& a99&9&ate an1 ost  
effe t'#e/+ 't5 lo+ e&lon\*-te& %a'htenan e(

) & 8 ells + e& fo! n1 not to be a #'able 1es"\*n o9t'bn( ) & 8 ells a& stone 5a%be& t5at a& 'hten1e1  
to 9&# '1e te%9o&& sto&\*e fo&oofto9 & noff an1 5a#e a %ax%! % allo+ able 1&a'ha\*e a&ea of 1/000  
sC! a& feet( T5e& a& no 9&9ose1 b! 'l1'h\*s + 't5 t5's 9&@ t 'h t5e '%%e1'ate f! t! &(

M" &-D'o&tent'bn an1 Ra'h\*a&lens a& 9oss'ble + 't5 t5e a99&9&ate 9lant'h\*s t5at 1o not att& t  
+ 'l1'feH5o+ e#e&fo&t5's 9&@ t \*&ass s+ ales an1 non-oofto9 1's onne t + e& fo! n1 to be %o&  
a99&9&ate an1 ost effe t'#e/+ 't5 lo+ e&lon\*-te& %a'htenan e(

## Res! Its



Afte&an e#! at'on of t5e 1'ffe&ent \$8 M>ć\$) 9& t" es/'t + as e#"1ent t5at + on-Roofto9 ) 's onne t an1  
Ú&asse1 \$+ ale a&e t5e %ost a99&9&ate 9& t" es t5at o!l1 be !t'!Ee1 at t5's s'te( + on-&oofto9  
1's onne t + as a99!e1 to all a&eas of 9a#e%ent t5at %et slo9e an1 len\*t5 &eC! "8e%ents( Pκ + as  
1ete&%he1 fo& ea 5 1&a'ha\*e a&ea of "%9e&#o!s <%ax'!% 1/000 \$. = base1 !9on t5e &at'b of  
1's onne t'on len\*t5 to ont&b!t'h\* len\*t5( T5ese Pκ #al! es 1'ffe&f&0% t5e 9&@ t s'te Pκ an1 %a' &ea 5  
a %ax'!% #al!e of 1B( T5e Ú&asse1 \$+ ale + as !t'!Ee1 alon\* t5e a ess &a1( All non-&oofto9  
1's onne t'ons t5at a&e be'h\* la'%e1 fo& &e1't a&e s5o+ n on \$5eet 7 of t5e on e9t Plan(

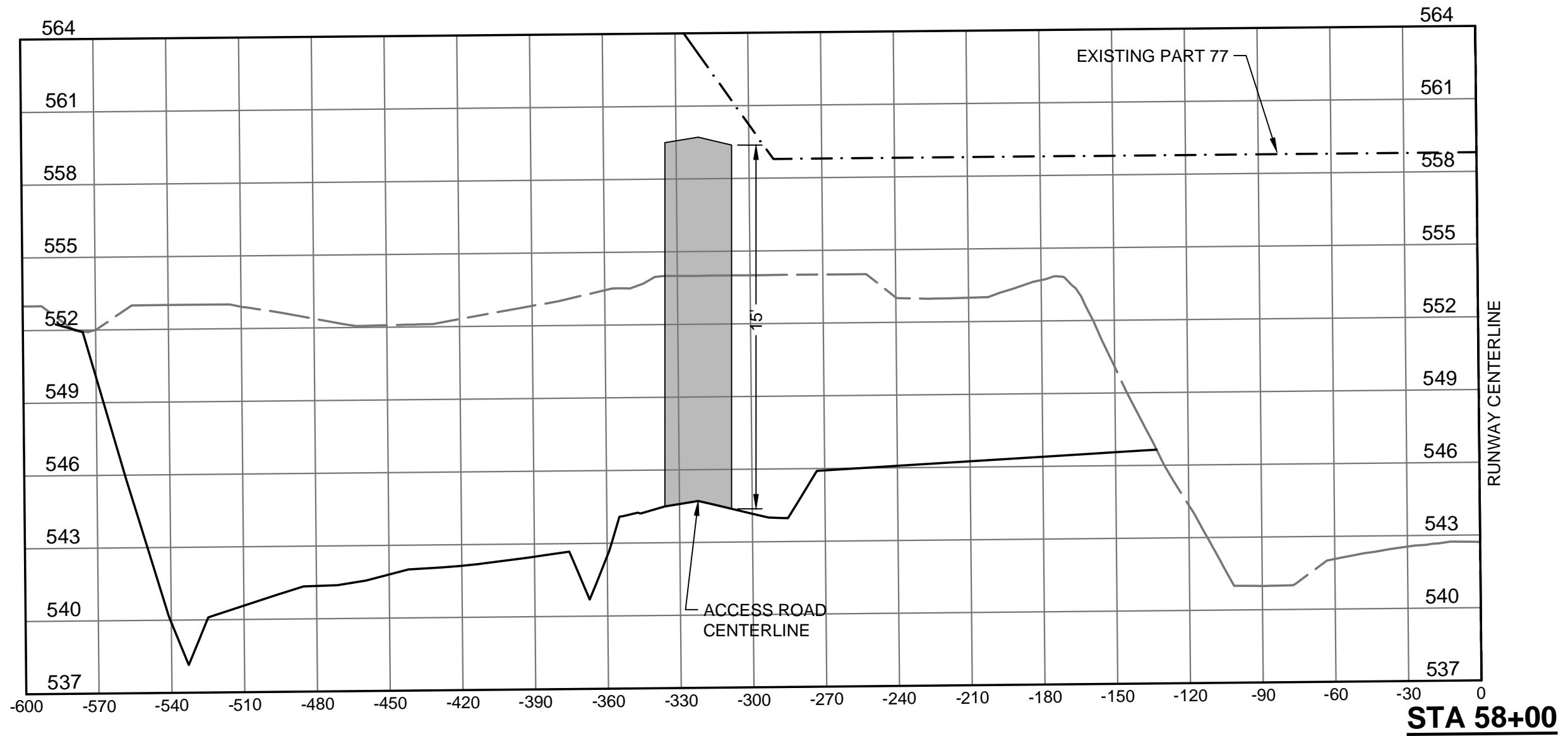
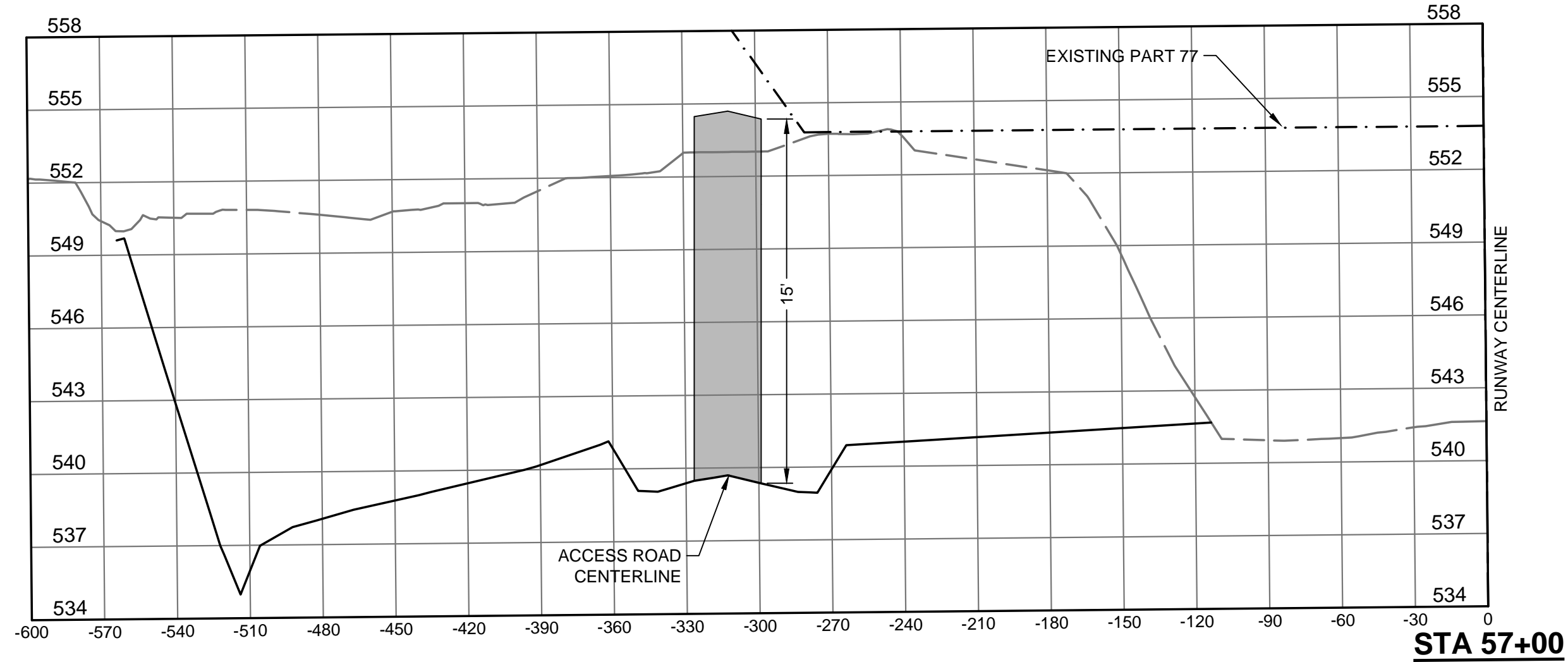
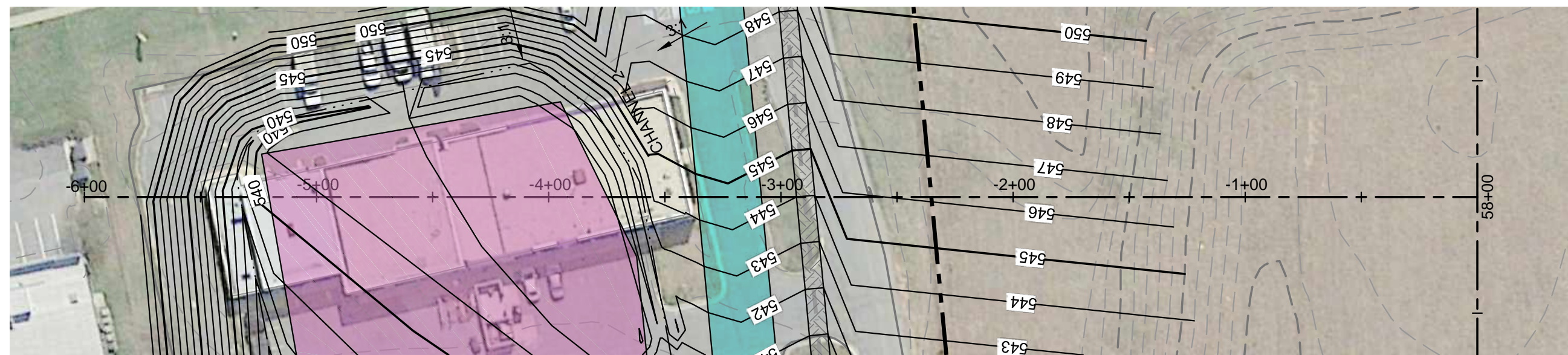
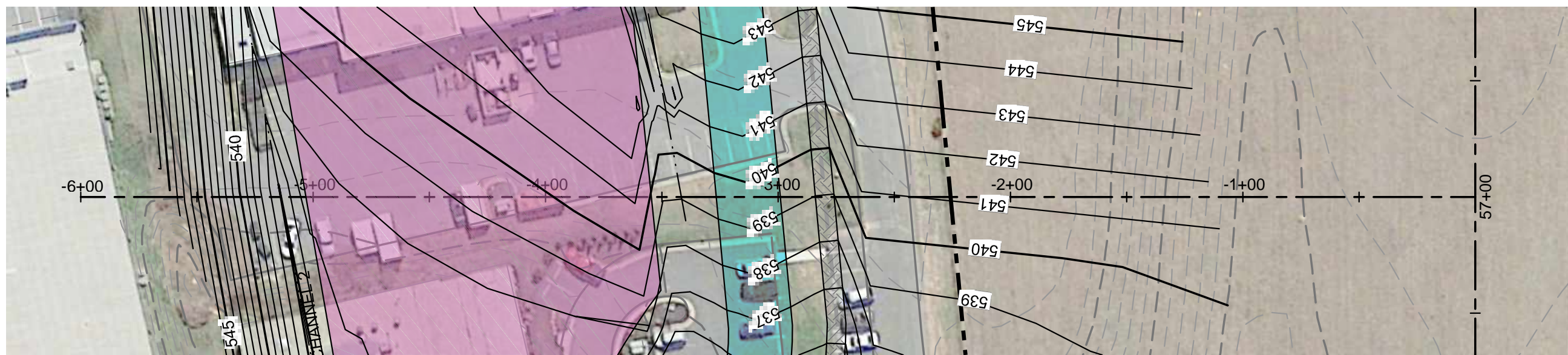
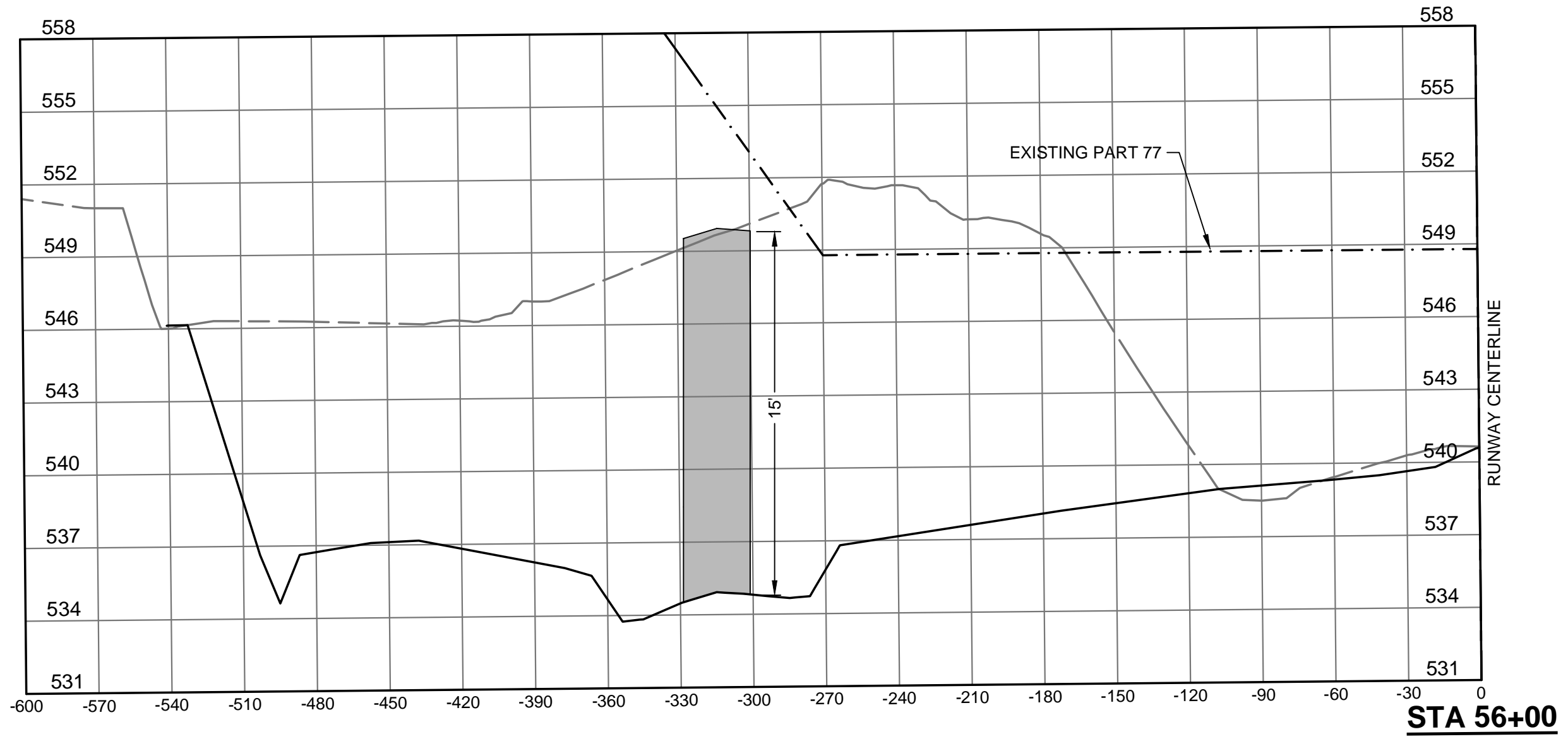
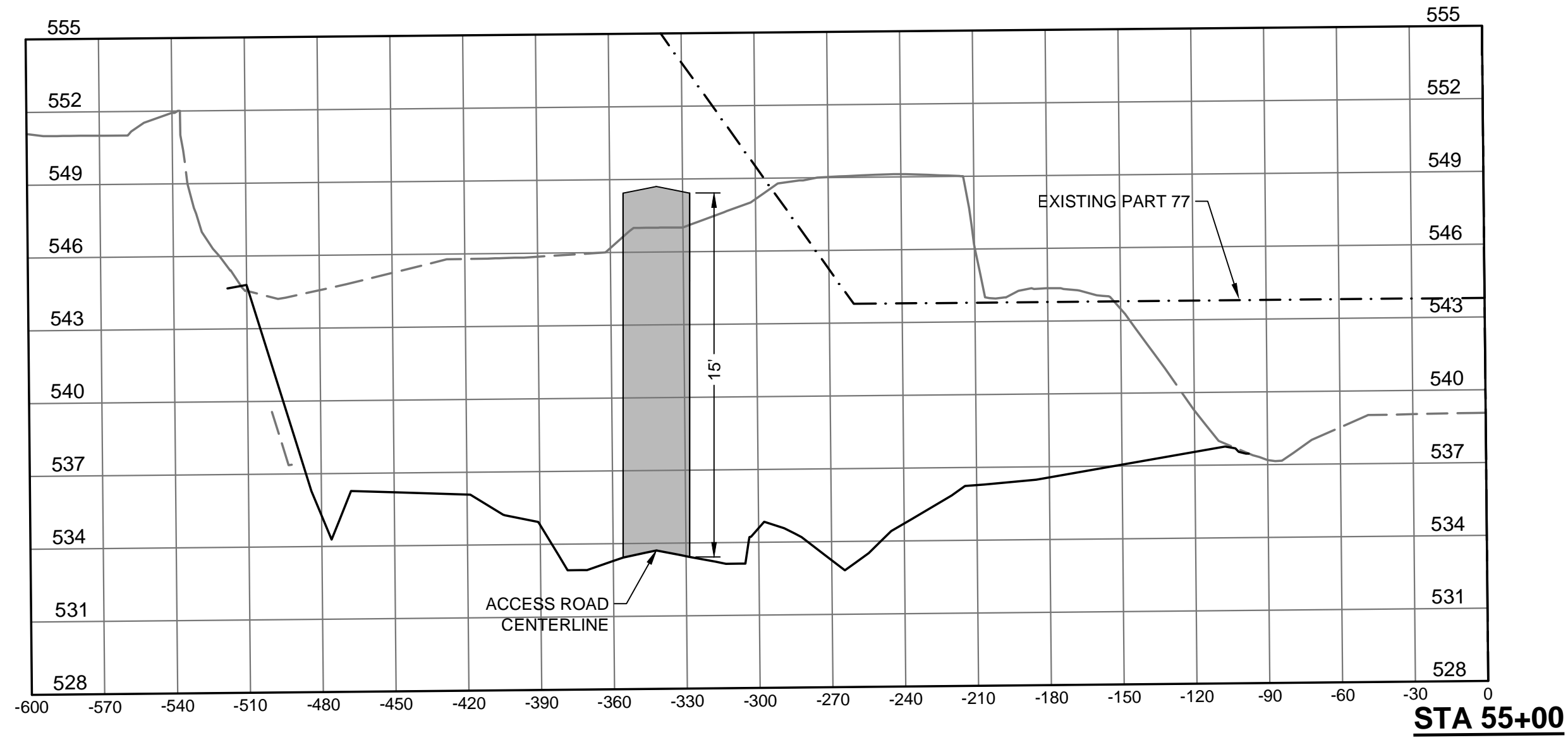
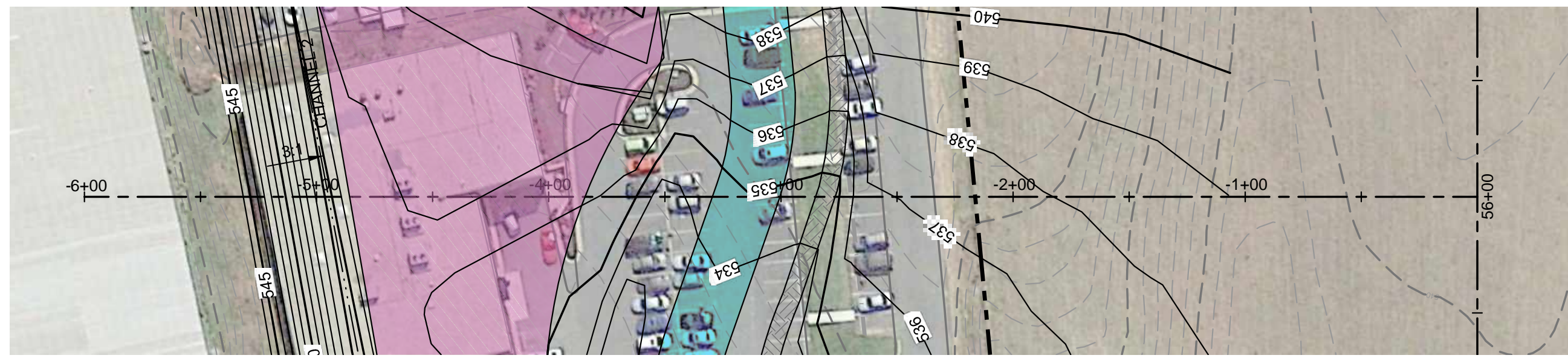
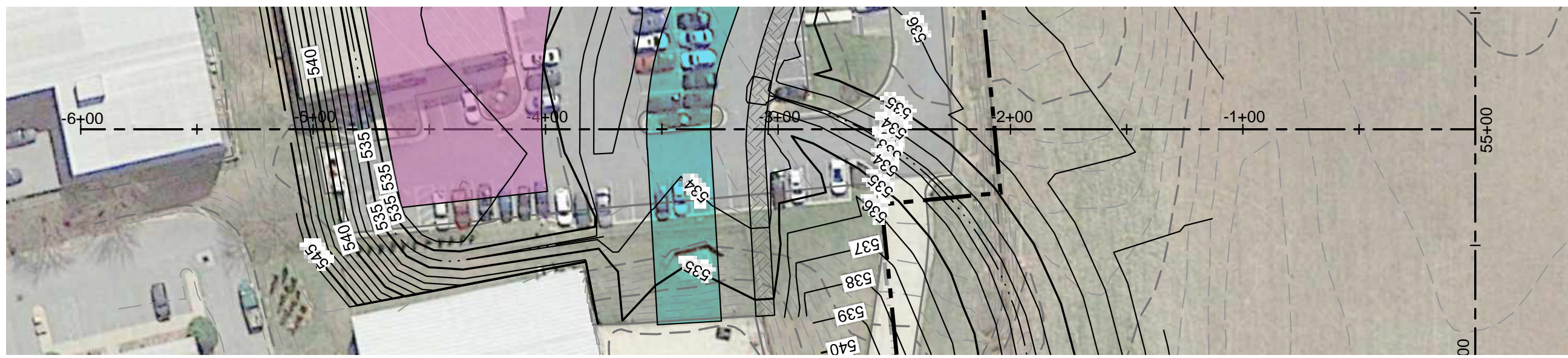
\$!%%a&

A s!%%a& s5eet 5as been 'h !l1e1 'h A99en1'x 2( T5e s!%%a& l'ts t5e ć\$) #o!%e t5at 's 9&#1e1  
!n1e&t5e 9&9ose1 1es'!n an1 o%9a&es 't + 't5 t5e ta&et #o!%e(



**Appendix 1 – Cross Section Exhibit**





- LEGEND**
- EXISTING AIRPORT PROPERTY LINE
  - - - - EXISTING PART 77 APPROACH SURFACE
  - - - - EXISTING SURFACE
  - PROPOSED SURFACE
  - ▨ GRASSED SWALE GS-1
  - PROPOSED IMPERVIOUS COVER
  - FUTURE IMPERVIOUS\*

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

<b>CROSS SECTIONS</b>	
<b>STA 55+00 TO STA 58+00</b>	
<b>MONTGOMERY COUNTY AIRPARK</b>	
<b>GAITHERSBURG, MARYLAND</b>	
	
www.deltairport.com	
<b>DRAWN BY:</b> MRM	<b>SCALE:</b> AS SHOWN
<b>CHECKED BY:</b> TJP/CMS	<b>DATE:</b> FEBRUARY 2017

DRAWING: 14115-Cross Sections.dwg LAYOUT: 11 SHEET: 14115-03.dwg DATE: 1/12/17 11:50:00 AM IMAGES: GAL\_Aerial (1/12/2015).jpg



**Appendix 2 – Environmental Site Design (ESD) Summary**

## ESD Target Volume Calculation

Project Area Summary		
	Area Total	Unit
Site	0.7	A
Site Impervious	2.22	A
4" D	0.00	A
4"	0.7	A
4" )	0.00	A
Oil Storage Impervious	1.10	A
Paved Impervious	1.7	A
Set Impervious	0.76	A
Oil Impervious + Set Impervious	0.26	A

Impervious area is the total area of the site that is not permeable. This includes paved areas, roofs, and other non-porous surfaces. The total impervious area is 2.22 acres.

$$\%I = \frac{\text{Property Impervious}}{\text{Property}} \times 100 = \frac{2.32 \text{ AC}}{5.75 \text{ AC}} \times 100 = 40\%$$

Permeable area is 3.43 acres.

Runoff coefficient is 0.05.

$$R_V = 0.05 + 0.009(I) \quad R_V = 0.05 + 0.009(100) = 0.95$$

Runoff volume is 1.324 cubic feet.

$$ESD_V = \frac{P_{Ex} R_V \times Area}{12} \quad ESD_V = \frac{1.0 \times 0.95 \times (0.38 \text{ AC} \times 43,560 \text{ SF/AC})}{12} = 1,324 \text{ CF}$$

ESD Measures Provided		
Measure	Qty	ESD <sub>v</sub> Prov'd
1" pipe	17	1/07
1" valve	1	1/2
<b>Totals</b>		1/006

**Appendix 3 – Stormwater Concept Plan**



# MONTGOMERY COUNTY AIRPARK

GAITHERSBURG, MARYLAND

## SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT FOR LAND ACQUISITION & OBSTRUCTION REMOVAL

AIP PROJECT NO. 3-24-0018-026-2015

MAA PROJECT NO. MAA-GR-16-013

DELTA PROJECT NO. 14115

FOR THE  
MONTGOMERY COUNTY  
REVENUE AUTHORITY

FEBRUARY 2017

CONCEPT PLAN  
PRELIMINARY - DO NOT USE  
FOR CONSTRUCTION  
FEBRUARY 2017

**NOTES**  
THIS REVIEW PLAN SET BEING PRESENTED FOR PROGRESS REPORTING AND CONCEPTUAL DESIGN REVIEW BY FAA, MAA AND LOCAL AGENCIES. THE GOAL OF THIS PROJECT IS TO CLEAR ALL TREE OBSTRUCTIONS (HAZARD TO AIR NAVIGATION) WITHIN THE PART 77 AIRSPACE SURFACES WITHIN THE PROJECT AREA. TIMEFRAME FOR CONSTRUCTION IS TBD. WORK ANTICIPATED IN 2015.

**OWNER CONTACT:**  
MR. KEITH MILLER  
CHIEF EXECUTIVE OFFICER  
MONTGOMERY COUNTY REVENUE AUTHORITY  
101 MONROE STREET, SUITE 410  
ROCKVILLE, MD 20850-2503  
TEL: 301.762.9080

**OWNER'S/DEVELOPER'S CERTIFICATION**  
I/We hereby certify that all clearing, grading, construction, and/or development will be done pursuant to this plan and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project.

Signature \_\_\_\_\_ Date \_\_\_\_\_  
Printed Name and Title \_\_\_\_\_

**DESIGN CERTIFICATION**  
I hereby certify that this plan has been prepared in accordance with the "2011 Maryland Standards and Specification for Soil Erosion and Sediment Control," Montgomery County Department of Permitting Services Executive Regulations 5-90, 7-02AM and 36-90, and Montgomery County Department of Public Works and Transportation "Storm Drain Design Criteria" dated August 1988.

Design Engineer Signature \_\_\_\_\_ Date \_\_\_\_\_  
Printed Name \_\_\_\_\_ Registration Number \_\_\_\_\_

**CERTIFICATION OF THE QUANTITIES**  
I hereby certify that the estimated total amount of excavation and fill as shown on these plans has been computed to \_\_\_\_\_ cubic yards of excavation, \_\_\_\_\_ cubic yards of fill and the total area to be disturbed as shown on these plans has been determined to be \_\_\_\_\_ square feet.

Signature \_\_\_\_\_ Date \_\_\_\_\_  
Printed Name and Title \_\_\_\_\_ Registration Number \_\_\_\_\_

**MAINTENANCE CERTIFICATION ON PRIVATE LANDS**  
I/We hereby certify that I/we assume maintenance responsibilities for all stormwater management structures shown hereon. If maintenance responsibility is legally transferred, I/we agree to supply the Montgomery County Department of Environmental Protection with a copy of the document (signed by both parties) transferring said maintenance responsibility at that time.

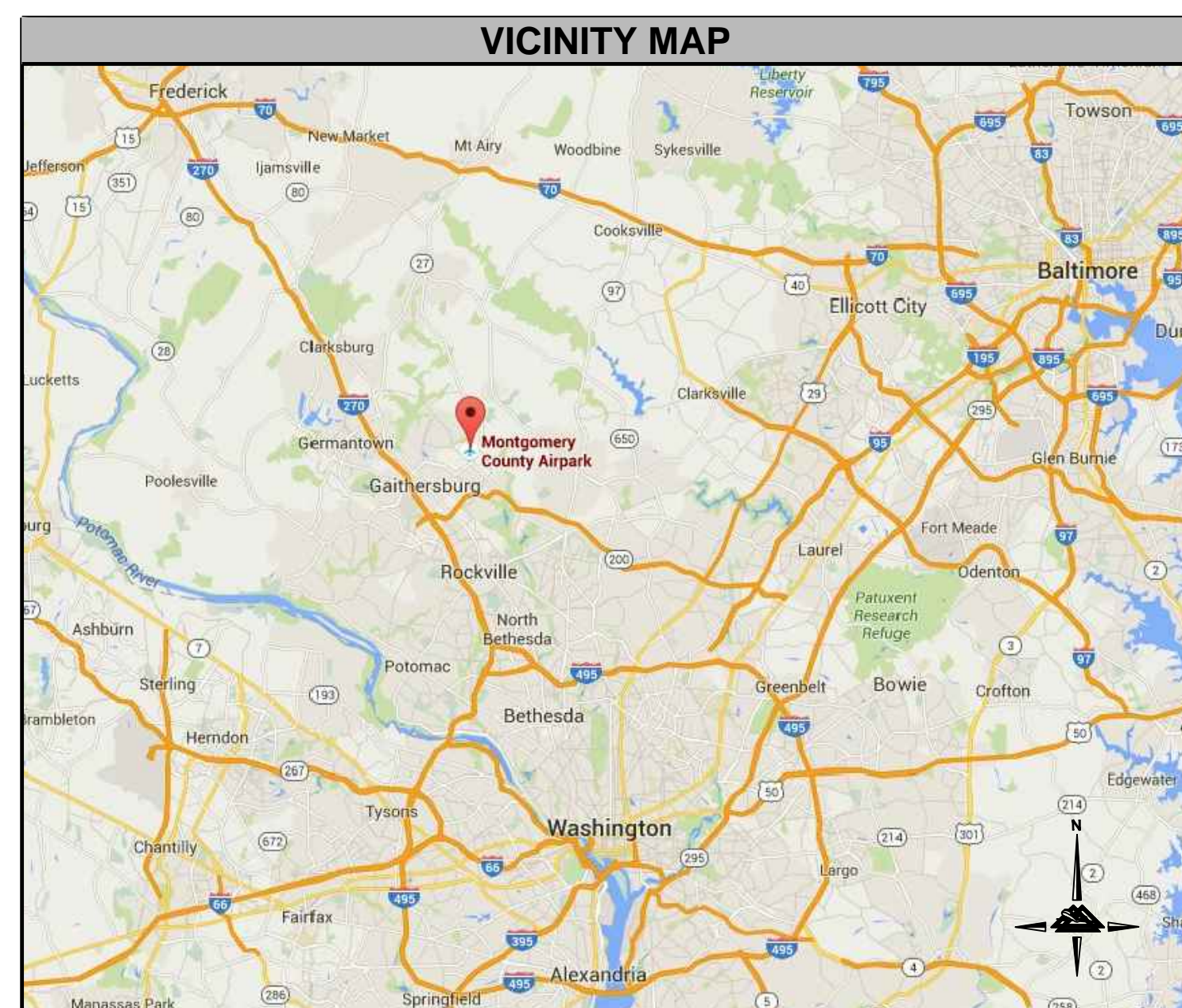
Owner/Developer Signature \_\_\_\_\_ Date \_\_\_\_\_  
Printed Name and Title \_\_\_\_\_

**RELATED REQUIRED PERMITS**  
To be completed by the consultant and placed on the first sheet of the Sediment Control / Stormwater Management plan set for all projects.

**IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT**

TYPE OF PERMIT	REQD	NOT REQD	PERMIT #	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS Floodplain District		<b>X</b>			
WATERWAYS/WETLAND(S):					
a. Corps of Engineers		<b>X</b>			
b. MDE		<b>X</b>			
c. MDE Water Quality Certification		<b>X</b>			
MDE Dam Safety		<b>X</b>			
N.P.D.E.S. NOTICE OF INTENT	<b>X</b>		N/A	N/A	DATE FILED
OTHERS (Please List):					
MCDPS Engineered Plan Sediment Control Permit	<b>X</b>				

PRIOR TO VEGETATIVE STABILIZATION, ALL DISTURBED AREA MUST BE TOPSOILED PER MONTGOMERY COUNTY "STANDARDS AND SPECIFICATIONS FOR TOPSOIL."



SCALE: 1" = 10 MILES (APPROXIMATELY)

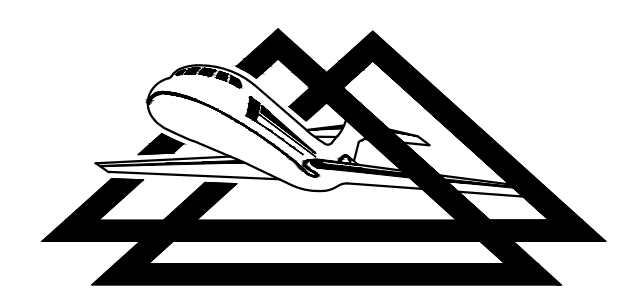
**INDEX**

SHEET NO.	TITLE
1	COVER SHEET
2	PROJECT LAYOUT
3	PRE-DEVELOPMENT DRAINAGE AREA MAP
4	POST-DEVELOPMENT DRAINAGE AREA MAP
5	STORMWATER MANAGEMENT NOTES & DETAIL

DRAWING: 14115-001.dwg LAYOUT: CPT  
DATE: 1/24/17 MCDPS APPROVED BLOCK: 000000 IMAGES: 041 Vicinity Map, Strip, SPS, Gd, h, h, TIF, MCDPS RELATED PERMITS TABLE, map, vicinity, cover, jpg

NO.	REVISIONS	BY	APP.	DATE

9711 Farrar Court, Suite 100  
Richmond, Virginia 23236  
phone: (804) 275-8301 • fax: (804) 275-8371  
www.deltaairport.com

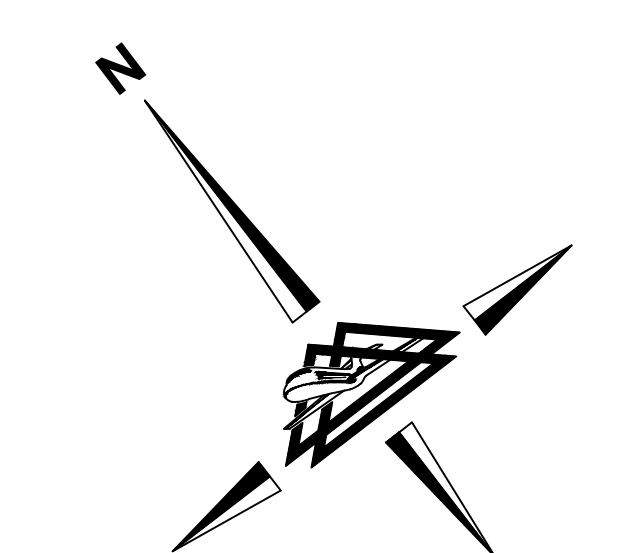
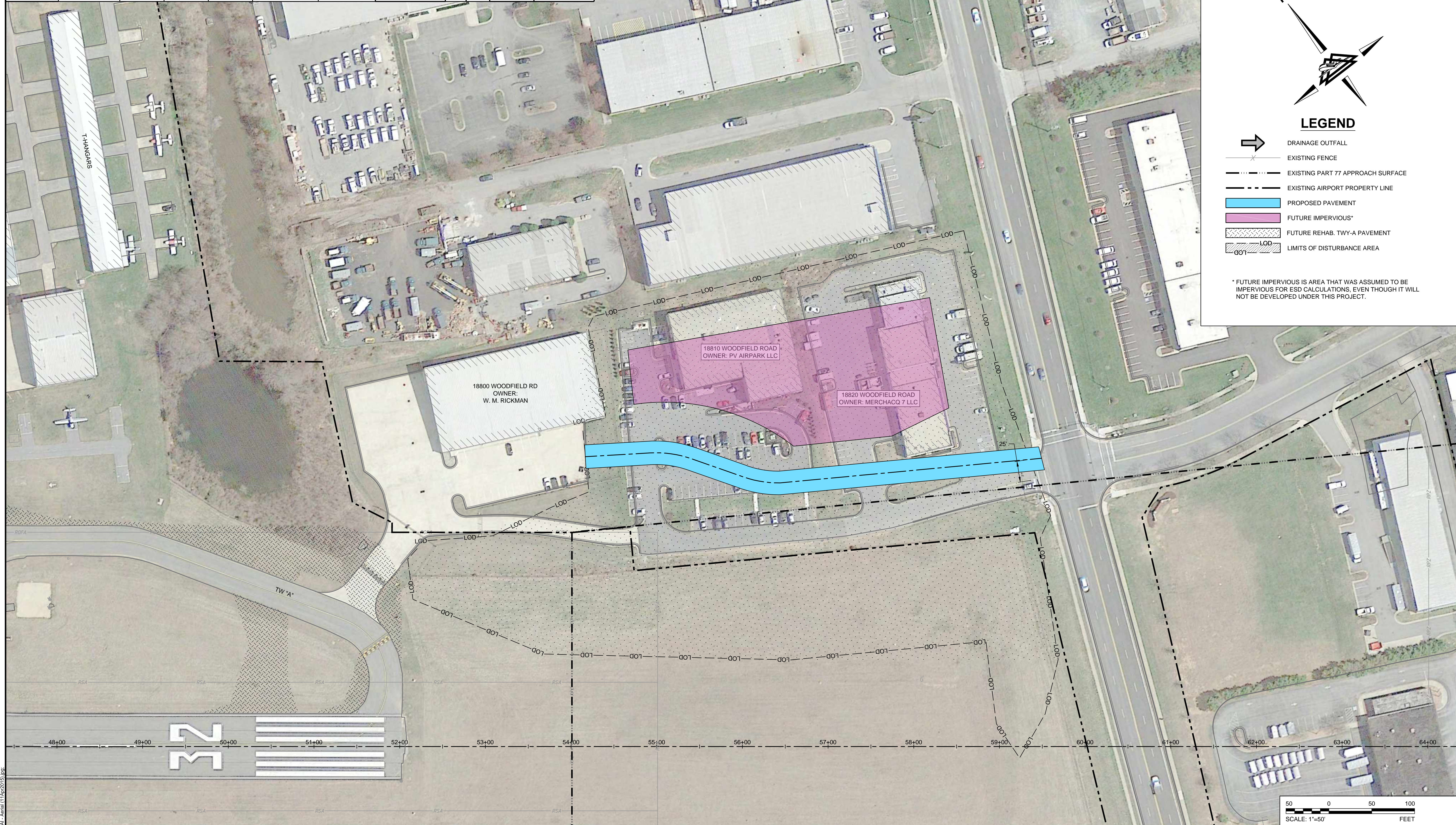


**DELTA AIRPORT  
CONSULTANTS, INC.**

CONCEPT PLAN  
PRELIMINARY - DO NOT USE  
FOR CONSTRUCTION

OBSTRUCTION REMOVAL	AIP NO.	JOB NO.
COVER SHEET	3-24-0018-026-2015	14115
	DRAWN BY: MRM	SHEET 1 OF 5
MONTGOMERY COUNTY AIRPARK	DESIGNED BY: TJP/CMS	
	SCALE: AS SHOWN	DATE: FEBRUARY 2017

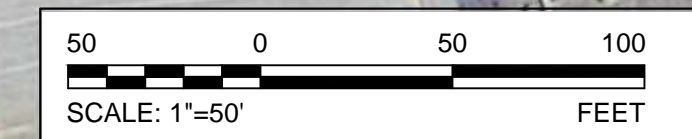
ENVIRONMENTAL SITE DESIGN TARGET VOLUME DATA											
PROJECT SITE AREA (AC)	EXISTING SITE IMPERVIOUS (AC)	C SOILS (AC)	1% I (AC)	50% I (AC)	PROPOSED SITE IMPERVIOUS (AC)	NET IMPERVIOUS (AC)	50% EXISTING NET IMPERVIOUS (AC)	P <sub>E</sub>	R <sub>V</sub>	AREA	TARGET ESD <sub>V</sub> (CF)
5.77	2.32	5.77	40	1.16	1.33	-0.99	0.16	1.00	0.95	0.16	555



**LEGEND**

- DRAINAGE OUTFALL
- EXISTING FENCE
- EXISTING PART 77 APPROACH SURFACE
- EXISTING AIRPORT PROPERTY LINE
- PROPOSED PAVEMENT
- FUTURE IMPERVIOUS\*
- FUTURE REHAB. TWY-A PAVEMENT
- LIMITS OF DISTURBANCE AREA

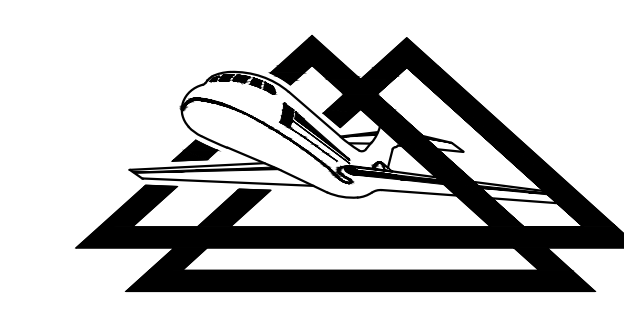
\* FUTURE IMPERVIOUS IS AREA THAT WAS ASSUMED TO BE IMPERVIOUS FOR ESD CALCULATIONS, EVEN THOUGH IT WILL NOT BE DEVELOPED UNDER THIS PROJECT.



DRAWING: 14115 GEN-C-000 LAYOUT.LT  
 DESIGNED BY: TJP/CMS  
 DATE: 01/14/2015

NO.	REVISIONS	BY	APP.	DATE

9711 Farrar Court, Suite 100  
 Richmond, Virginia 23236  
 phone: (804) 275-8301 • fax: (804) 275-8371  
 www.deltaairport.com



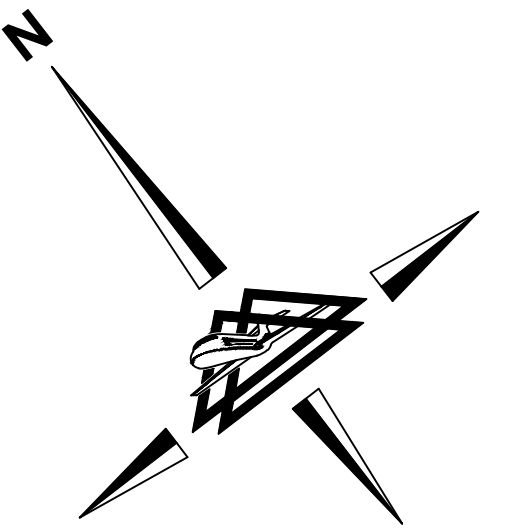
**DELTA AIRPORT  
 CONSULTANTS, INC.**

CONCEPT PLAN  
 PRELIMINARY - DO NOT USE  
 FOR CONSTRUCTION

<b>OBSTRUCTION REMOVAL</b>	AIP NO. 3-24-0018-026-2015	JOB NO. 14115
<b>PROJECT LAYOUT</b>	DRAWN BY: MRM	SHEET <b>2</b>
	DESIGNED BY: TJP/CMS	OF <b>5</b>
<b>MONTGOMERY COUNTY AIRPARK</b>	SCALE: 1"=50'	DATE: FEBRUARY 2017

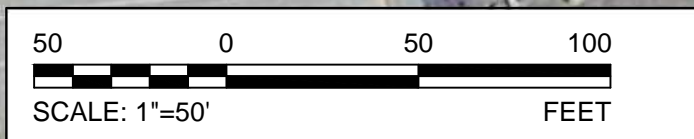
ENVIRONMENTAL SITE DESIGN DATA

DRAINAGE AREA	TOTAL AREA (AC)	TOTAL AREA (SF)	HYDROLOGIC SOIL GROUP (SF)	LAND COVER (SF)	
			C	IMPERVIOUS	GRASS
1	5.77	251501	234921	24556	226945
2	1.61	70330	77004	52073	18258
3	3.04	132620	146325	82570	50051



LEGEND

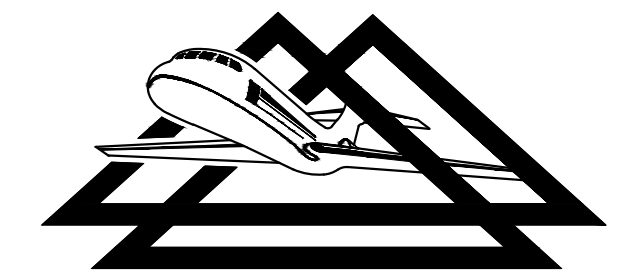
- 2 DRAINAGE AREA
- POINT OF OUTFALL ANALYSIS
- DRAINAGE AREA BOUNDARY
- EXISTING AIRPORT PROPERTY LINE
- EXISTING STORMSEWER



DRAWING: 14115 DAMPRE.dwg LAYOUT: L1  
 PLOTS: 14115.dwg 1/10/15 11:55:33 AM  
 USER: JCS - Aerial (11 Apr 2015) 1:02

NO.	REVISIONS	BY	APP.	DATE

9711 Farrar Court, Suite 100  
 Richmond, Virginia 23236  
 phone: (804) 275-8301 • fax: (804) 275-8371  
 www.deltaairport.com



**DELTA AIRPORT  
 CONSULTANTS, INC.**

CONCEPT PLAN  
 PRELIMINARY - DO NOT USE  
 FOR CONSTRUCTION

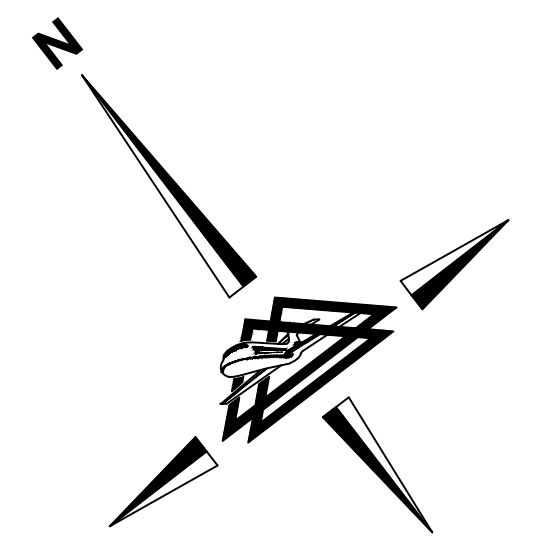
OBSTRUCTION REMOVAL	AIP NO. 3-24-0018-026-2015	JOB NO. 14115
PRE-DEVELOPMENT DRAINAGE AREA MAP	DRAWN BY: MRM	SHEET <b>3</b>
	DESIGNED BY: TJP/CMS	OF <b>5</b>
MONTGOMERY COUNTY AIRPARK	SCALE: 1" = 50'	DATE: FEBRUARY 2017



ENVIRONMENTAL SITE DESIGN DATA					
DRAINAGE AREA	TOTAL AREA (AC)	TOTAL AREA (SF)	HYDROLOGIC SOIL GROUP (SF)	LAND COVER (SF)	
				C	IMPERVIOUS
1A	5.39	234697	234697	10208	224489
1B	1.69	73452	73452	7733	65719
1C	0.58	25171	25171	252	24919
1D	0.51	22302	22302	4330	17972
1E	1.36	59032	59032	51432	7600
1F	0.55	23832	23832	7012	16820

ESD MEASURES PROVIDED			
MEASURE	QTY	ESD <sub>v</sub> PROV'D	
N-2 DISCONNECTION	14.00	1079.00	
GRASSED SWALE	1.00	593.00	
TOTALS		1672.00	
GRASSED SWALE			
GRASS SWALE	AREA OF IMPERVIOUS	P <sub>e</sub>	R <sub>v</sub>
GS-1	7012.00	1.00	0.95
TOTAL		555.12	
DRAINAGE STRUCTURE SUMMARY			
DRAINAGE STRUCTURE	TOTAL AREA (AC)	C - VALUE	TIME OF CONC. (MIN)
D100	2.68	0.61	15.00

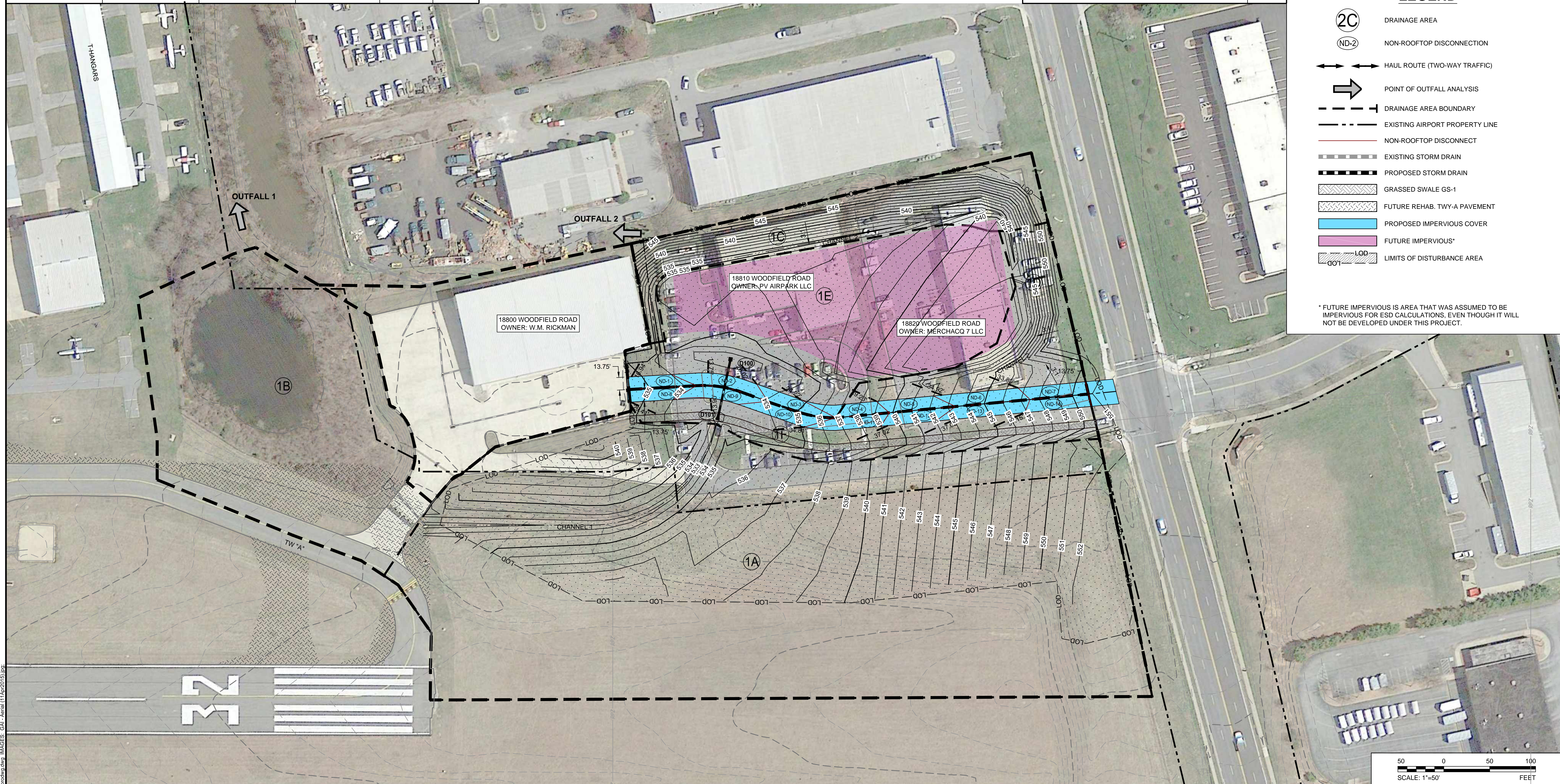
NON-ROOFTOP DISCONNECTS ALONG ACCESS ROAD						
NO.	IMPERVIOUS AREA (SF)	IMPERVIOUS WIDTH (FT)	PERVIOUS PATH (FT)	P <sub>e</sub> (IN)	R <sub>v</sub>	ESD <sub>v</sub> (CF)
1	1000	13.75	14	1.0	0.95	79
2	1000	13.75	14	1.0	0.95	79
3	1000	13.75	14	1.0	0.95	79
4	1000	13.75	14	1.0	0.95	79
5	600	13.75	14	1.0	0.95	48
6	1000	13.75	14	1.0	0.95	79
7	1000	13.75	14	1.0	0.95	79
8	1000	13.75	14	1.0	0.95	79
9	1000	13.75	14	1.0	0.95	79
10	1000	13.75	14	1.0	0.95	79
11	1000	13.75	14	1.0	0.95	79
12	1000	13.75	14	1.0	0.95	79
13	1000	13.75	14	1.0	0.95	79
14	1000	13.75	14	1.0	0.95	79
TOTAL						1079



**LEGEND**

- 2C DRAINAGE AREA
- ND-2 NON-ROOFTOP DISCONNECTION
- $\longleftrightarrow$  HAUL ROUTE (TWO-WAY TRAFFIC)
- $\rightarrow$  POINT OF OUTFALL ANALYSIS
- $\dashv$  DRAINAGE AREA BOUNDARY
- $\cdots$  EXISTING AIRPORT PROPERTY LINE
- $\cdots$  NON-ROOFTOP DISCONNECT
- $\cdots$  EXISTING STORM DRAIN
- $\cdots$  PROPOSED STORM DRAIN
- GRASSED SWALE GS-1
- FUTURE REHAB. TWY-A PAVEMENT
- PROPOSED IMPERVIOUS COVER
- FUTURE IMPERVIOUS\*
- $\cdots$  LOD LIMITS OF DISTURBANCE AREA

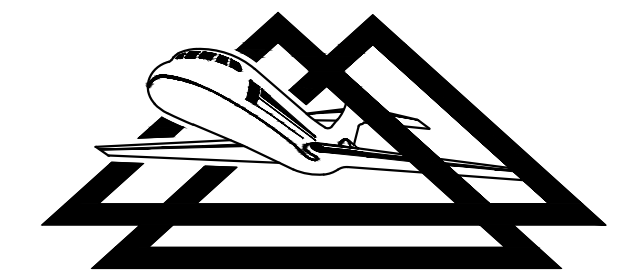
\* FUTURE IMPERVIOUS IS AREA THAT WAS ASSUMED TO BE IMPERVIOUS FOR ESD CALCULATIONS, EVEN THOUGH IT WILL NOT BE DEVELOPED UNDER THIS PROJECT.



DRAWING: 14116 DAMPOST.dwg LAYOUT: L1  
 PLOTS: 14116 DAMPOST.dwg 14116 DAMPOST.dwg IMAGES: CA - Aerial (1/16/2015).tif

NO.	REVISIONS	BY	APP.	DATE

9711 Farrar Court, Suite 100  
 Richmond, Virginia 23236  
 phone: (804) 275-8301 • fax: (804) 275-8371  
 www.deltaairport.com



**DELTA AIRPORT  
 CONSULTANTS, INC.**

CONCEPT PLAN  
 PRELIMINARY - DO NOT USE  
 FOR CONSTRUCTION

OBSTRUCTION REMOVAL	AIP NO. 3-24-0018-026-2015	JOB NO. 14115
POST-DEVELOPMENT DRAINAGE AREA MAP	DRAWN BY: MRM	SHEET 4
	DESIGNED BY: TJP/CMS	OF 5
MONTGOMERY COUNTY AIRPARK	SCALE: 1" = 50'	DATE: FEBRUARY 2017



**GRASSED SWALE (GS)**

The Grassed Swale methods described in the following section are based on the Grassed Swale design found in Chapter 5 of the Maryland Storm Water Design Manual and the ESD Process & Computations Supplement dated July 2010. Where deemed appropriate, the design specifications have been modified by the Montgomery County Department of Permitting Services (DPS).

**A. Facility Description**

A Grassed Swale is a channel that provides conveyance, water quality treatment and flow attenuation of stormwater runoff. Pollutant removal is achieved through vegetative filtering, sedimentation, biological uptake, and infiltration.

**B. System Design Considerations**

**1. Applicability**

Grassed Swales are intended to be used in lieu of curb and gutter conveyance for roadways and driveways only. They are appropriate for new and redevelopment applications. They may be used in public and private rights-of-way, and for other areas such as driveways where swales can be incorporated into the project design in place of curb and gutter. Grassed Swales are not appropriate as treatment for roof downspouts, parking lots, or other non linear applications. Grassed Swales must be as long as the treated surface.

The channel slope shall be between 1% and 4.0%. Maximum ESD flow velocity may not exceed 1.0 fps. Channel side slopes may not exceed 3:1. In cases where the flow velocity exceeds 1 fps, overflow inlets shall be employed to keep the average flow in the swale below 1 fps.

**2. Conveyance**

Grassed Swales shall be designed to receive flow along their entire length via sheet flow. They may not be designed as treatment for piped flow or for other areas of concentrated flow. Overflow inlets should be installed as necessary to maintain conveyance and keep ESD velocity to 1 fps or less. All swales shall be sized to safely convey runoff from a 10-year storm event in a non erosive fashion to an acceptable outfall.

**3. Groundwater**

Grassed Swales shall not be located where the water table is within 2 feet of the bottom of the facility. If the 2 ft. clearance requirement cannot be met, an alternative stormwater practice must be proposed.

**4. Setbacks**

Grassed Swales shall be located at least 30 feet from water supply wells and 25 feet from septic systems. Practices should be located down gradient and setback at least 10 feet from building foundations.

**C. Specifications and Details**

**1. Sizing**

When sized per the criteria below, the Grassed Swale may be credited as providing treatment volume for a Pe of 1.0 inch for the impervious area draining to it. Surface ponding may not be calculated for Grassed Swales since they do not pond water, they convey it away.

The surface of the Grassed Swale shall be 2 to 8 feet in width. Maximum velocity for the runoff from a one inch rainfall may not exceed 1.0 fps. Flow rate shall be calculated per Appendix D.10 of the 2000 Maryland Stormwater Design Manual. Where channel width, slope, and ESD flow rate requirements are met within a Grassed Swale for a drainage area, a credit of Pe = 1.0 inch shall be given. The treatment area used for calculating the ESD credit is considered to be only the impervious vehicular area draining directly to the swale along its length. Other areas that may drain to the swale, such as yards, rooftops and parking lots, will not be given ESD credit within the Grassed Swale.

Grassed Swales may not be "enhanced" by placing additional stone storage below them.

**2. Inflow Design Criteria**

Runoff shall enter the Grassed Swale in a non-erosive manner (less than 2 fps) as sheet flow from the surface being treated.

**3. Overflow Design Criteria**

Safe conveyance of the developed 10-year storm through the Grassed Swale must be demonstrated. Overflow inlets may be installed as required. All piped overflows must outfall to safe, stable locations.

**4. Planting Media**

Formal planting medium is not employed in the construction of Grassed Swales. However, the soil must be prepared for planting per Montgomery County tilling/topsoiling specifications prior to planting.

**5. Mulch**

Mulch is not employed in Grassed Swales. Swales must be stabilized with sod or with seed and erosion control matting at the time of grading.

**6. Plant Materials**

Plants, through their pollutant uptake and evapo-transpiration of stormwater runoff, play a key role in the overall effectiveness of the Grassed Swale. The swale should be densely planted in appropriate grasses.

**Grassed Swale Sizing Example**

A Grassed Swale is being designed to treat the runoff from a street that is part of a larger development. The target ESD, for the overall project has already been determined. The total treatment area (roadway surface) to the swale is 10,000 square feet of roadway area. The longitudinal flow slopes at an average of 3.5%, and the bottom width has been adjusted to provide <= 1 fps for the ESD flow velocity (in this case a 2 foot bottom width). Treated roadway area is 1,000 feet long by ten feet wide. The swale runs the entire length of the treated area.

A = 10,000 sq. ft. of impervious area being treated directly in the swale  
Pe = 1.0  
Rv = .05 + 0.009(I) = .05 + 0.009(100) = 0.95

ESDv provided = (1.0) (.95) (10,000) / 12 = 792 cf

For calculation of maximum velocity and 10-year conveyance, the entire developed drainage area to the swale must be considered



**DISCONNECTION OF NON-ROOFTOP RUNOFF**

The Disconnection of Non-Rooftop Runoff methods described in the following section are based on the guidelines found in Chapter 5 of the Maryland Storm Water Design Manual and the ESD Process & Computations Supplement dated July 2010. Where deemed appropriate, the design specifications have been modified by the Montgomery County Department of Permitting Services (DPS).

**A. Facility Description**

Disconnection of Non-Rooftop Runoff is a nonstructural method of dispersing flows from impervious surfaces across vegetated areas to reduce runoff volume and pollutants.

**B. System Design Considerations**

**1. Applicability**

Disconnection of Non-Rooftop Runoff is appropriate for new and redevelopment applications. This is most frequently applied to small impervious areas such as driveways and small parking areas, patios, pool decks, etc.

**2. Conveyance**

Disconnected runoff must discharge directly to relatively flat vegetated areas to receive treatment credit. The average slope of the disconnection path may not exceed 5%. Disconnections must encourage sheet flow.

Swales may not be used to modify disconnection flow paths, as they discourage sheet flow.

The entire disconnection flow path must be located on the subject property. Disconnection credit will not be given for flow beyond the property line.

Flow path length shall be at least 10 feet. Credit will not be given for flow path lengths above 75 feet.

Disconnected flow must remain disconnected throughout its entire credited flow length. Credit will not be given beyond the point where flow converges with flow from another source.

Disconnection areas must be clearly shown and labeled on construction plans.

A 1 to 2 foot wide pea gravel transition strip between the treated impervious area and the pervious treatment area should be provided to ensure runoff will flow in a safe and non erosive manner.

**3. Soil Suitability**

Disconnection of Non-Rooftop Runoff works best on uncompacted soils that support healthy vegetation and that allow runoff to infiltrate. In areas where the soils are compacted by construction equipment or are unsuitable for other reasons, soil amendments or deconsolidation may be required.

**4. Reconnections**

Disconnection of Non-Rooftop Runoffs may not flow across impervious areas or connect with flow from other sources for their entire treatment length. The credited flow length must remain separate from other areas of concentrated flow for its entire credited flow length.

**5. Vegetation**

Disconnection of Non-Rooftop Runoff is most commonly proposed for lawn areas with turf grass. However, other types of vegetation such as trees, shrubs or other herbaceous plants are acceptable provided the flow area is a well vegetated area with healthy plants.

**C. Specifications and Details**

The following table will be used to compute Disconnection of Non-Rooftop Runoff credits in Montgomery County.

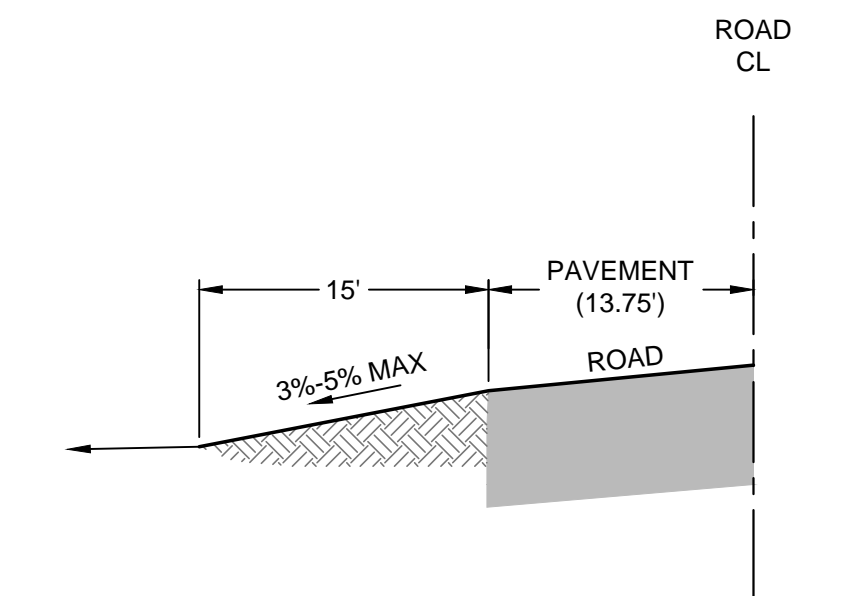
Impervious Ratio	Ratio of Disconnection Length to Contributing Length				
	0.2:1	0.4:1	0.6:1	0.8:1	1:1
Pe (ft.) =	0.2	0.4	0.6	0.8	1.0

When the target Pe = 1.0 because the impervious area <= 15%, if the provided treatment per the table is 1.0 then no additional calculation is necessary.

**Disconnection of Non-Rooftop Runoff Sizing Example**

Disconnection of Non-Rooftop Runoff is being proposed to provide treatment for the runoff from a driveway. The target ESD, for the overall project has already been determined. The driveway to be treated is 20 feet in width and 45 feet long. The receiving lawn area is at an average slope of less than 4%, and the flow length to the property line is 60 feet.

A = 900 sq. ft. (For purposes of calculating ESD credit for Non-Rooftop Disconnection, A = the impervious area being treated.)  
Contributing Impervious Length = 20 feet  
Receiving Pervious Length = 10 feet  
Impervious Ratio = 0.5:1  
Pe = 0.5 (from chart)  
Rv = .05 + 0.009(I) = .05 + 0.009(100) = 0.95  
ESDv provided = (0.5) (.95) (900) / 12 = 36 cf



**ROAD - NON-ROOFTOP DISCONNECT  
TYPICAL SECTION**

NTS

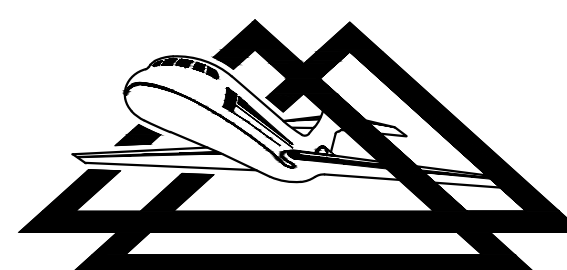
NOTE:

1. ACTUAL FLOW PATH LENGTHS AND WIDTH OF CONTRIBUTING IMPERVIOUS AREAS INCLUDED ON POST-DEVELOPMENT DRAINAGE AREA MAP SHEETS.

DRAWING: 14115.DTL.dwg LAYOUT: CPT  
DATE: 11/30/12 APPROVED BLOCK: [signature]

NO.	REVISIONS	BY	APP.	DATE

9711 Farrar Court, Suite 100  
Richmond, Virginia 23236  
phone: (804) 275-8301 • fax: (804) 275-8371  
www.deltaairport.com

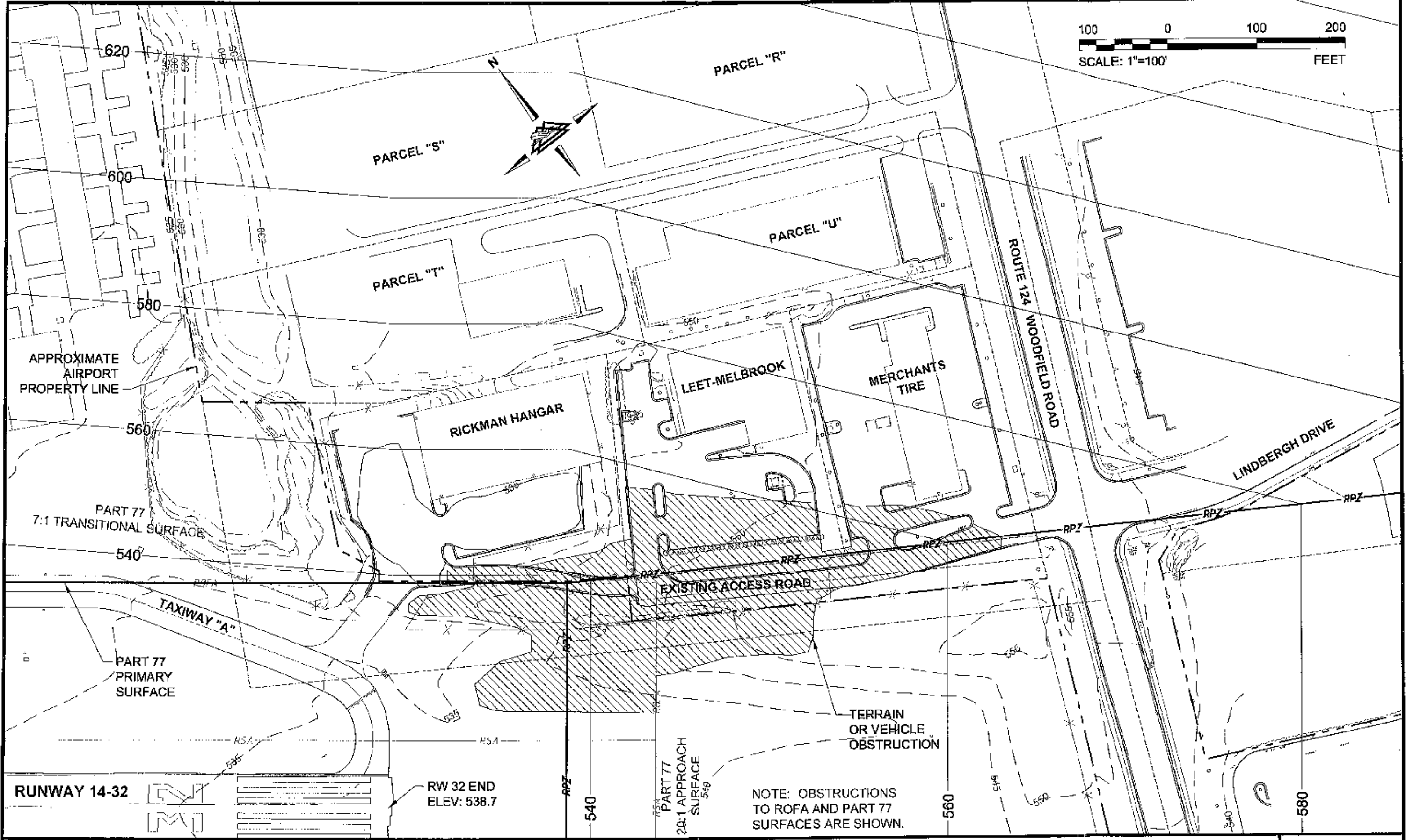
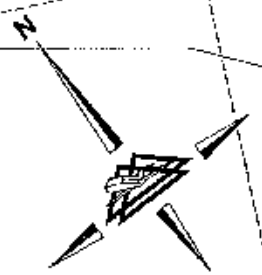
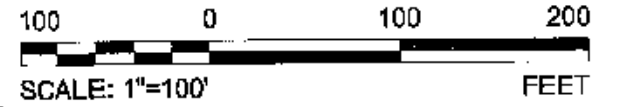


**DELTA AIRPORT  
CONSULTANTS, INC.**

CONCEPT PLAN  
PRELIMINARY - DO NOT USE  
FOR CONSTRUCTION

<b>OBSTRUCTION REMOVAL</b>	AIP NO. 3-24-0018-026-2015	JOB NO. 14115
<b>STORMWATER MANAGEMENT NOTES &amp; DETAIL</b>	DRAWN BY: MRM	SHEET <b>5</b>
	DESIGNED BY: TJP/CMS	OF <b>5</b>
<b>MONTGOMERY COUNTY AIRPARK</b>	SCALE: NTS	DATE: FEBRUARY 2017

**Appendix 4 – 2011 Preliminary Engineering Design Report Exhibits**



NOTE: OBSTRUCTIONS TO ROFA AND PART 77 SURFACES ARE SHOWN.

**EXISTING ACCESS ROAD OBSTRUCTIONS  
MONTGOMERY COUNTY AIRPARK**

**EXHIBIT  
I**



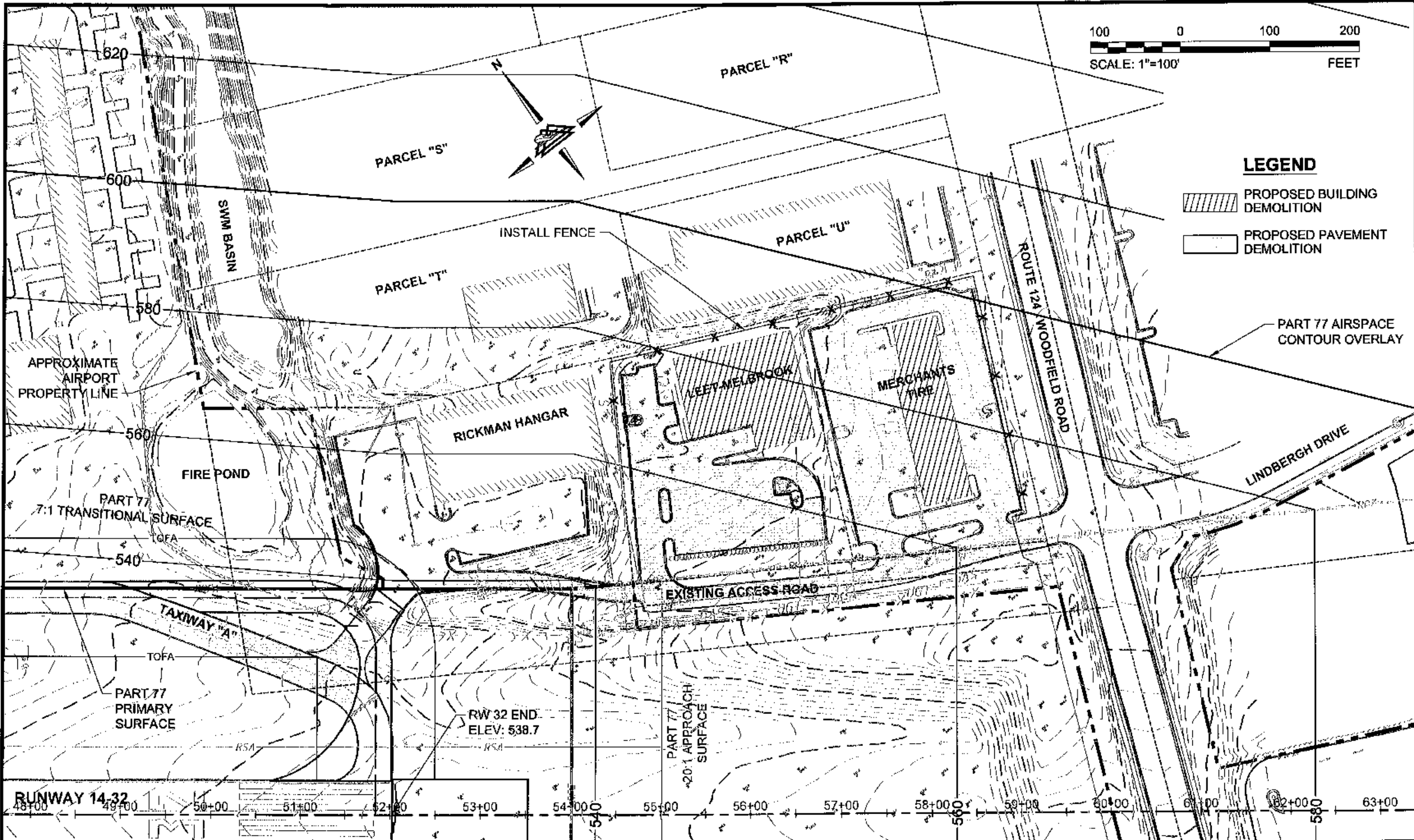
DRAWN BY: F.J.W. CHECKED BY: T.S.S. SCALE: 1"=100' DATE: FEBRUARY 2010

X:\2009proj\05012\Exhibits\05012 Access Road Options.dwg, EX, 2/24/2010 12:47:02 PM, pjw

DRAWING: 05012 Access Road Options.dwg LAYOUT: EX

N:\09012\04 CAD\Exhibits\09012 Proposed Action Phase 1.dwg, LI, 3/18/2011 11:02:05 AM, pjw

DRAWING: 09012 Proposed Action Phase 1.dwg LAYOUT: LI



**PROPOSED ACTION - PHASE I - ACQUIRE LEET-MELBROOK & MERCHANTS PARCELS  
MONTGOMERY COUNTY AIRPARK**

SHEET  
1

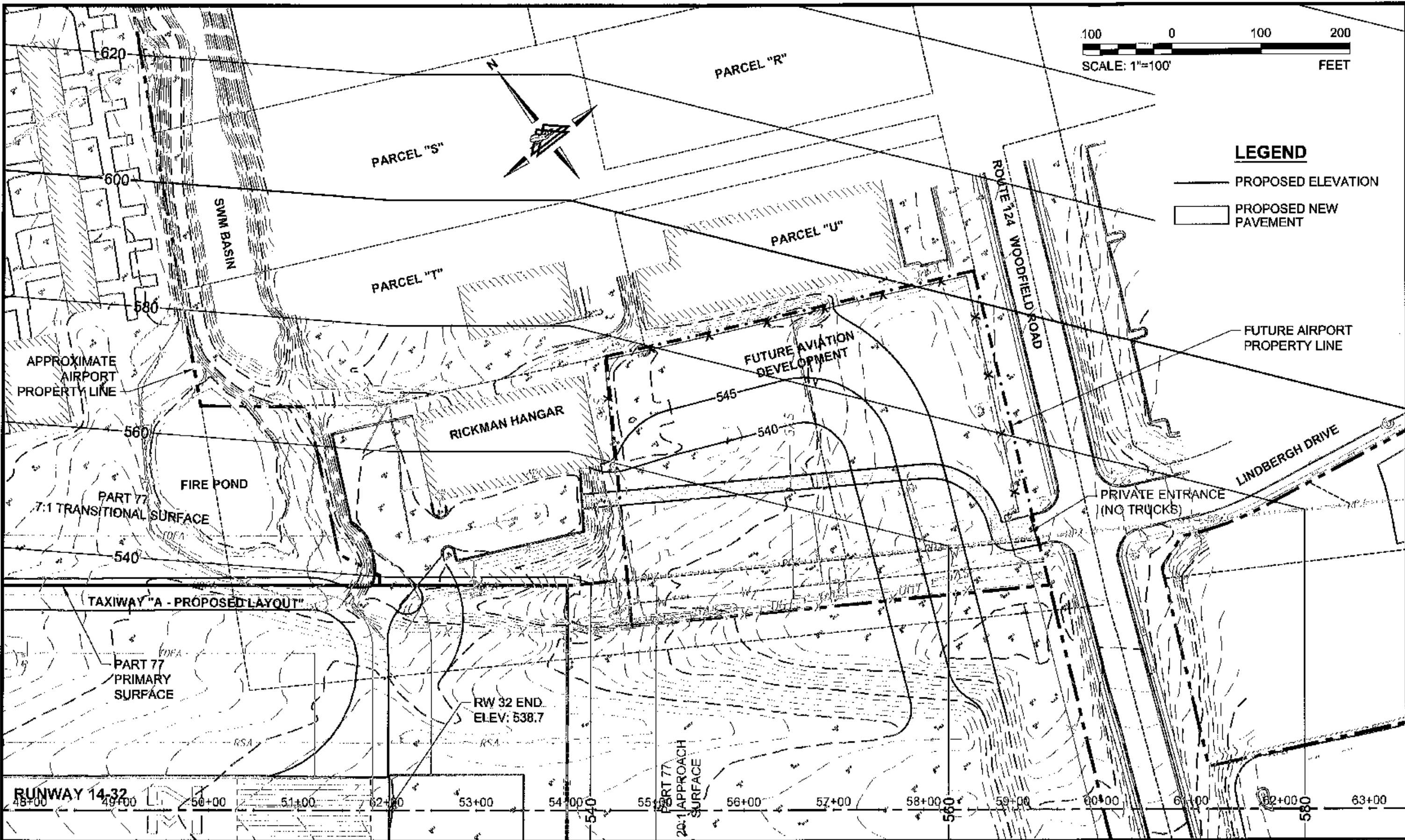


www.dallasairport.com

DRAWN BY: PJW CHECKED BY: MJK SCALE: 1"=100' DATE: NOVEMBER 2010

N:\09012\04 CAD\Exhibits\09012 Proposed Action Phase 2.dwg, LI, 3/18/2011 11:04:33 AM, pjw

DRAWING: 09012 Proposed Action Phase 2.dwg\_LAYOUT\_1



RUNWAY 14-32  
 48+00 49+00 50+00 51+00 52+00 53+00 54+00 55+00 56+00 57+00 58+00 59+00 60+00 61+00 62+00 63+00

**PROPOSED ACTION - PHASE II - GRADE AND RELOCATE ROAD  
MONTGOMERY COUNTY AIRPARK**

**SHEET  
3**



DRAWN BY: PJW    CHECKED BY: MWK    SCALE: 1"=100'    DATE: NOVEMBER 2010

**Appendix 5- FAA Review Comments on 2011 Preliminary Engineering Design Report**

**MONTGOMERY COUNTY AIRPARK**  
**RUNWAY 32 OBSTRUCTION REMOVAL**  
**PRELIMINARY DESIGN STUDY – FINAL REPORT**

**AIP 3-24-0018-019**

**FAA REVIEW COMMENTS (1-12-11)**  
**RESPONSES FROM DELTA AIRPORT CONSULTANTS, INC.**

**Comments are numbered as per FAA letter, responses in bold.**

1. Page 2 – the obstruction removal program is based upon those identified the approved Airport Layout Plan (ALP).

**Revised as noted.**

2. Page 2 – The goal of this study was not to evaluate conditions of the Runway 32 end but to better quantify how the obstruction removal program identified on the ALP was going to be implemented. The decisions regarding compliance with FAA standards are made when the ALP is submitted and approved.

**Revised as noted.**

3. Page 2 – This study did not determine that lowering the access road is not feasible but I fact documented that it can be lowered in accordance with the approved ALP and that additional properties are effected.

**Wording revised as noted by the FAA.**

4. Page 2 – As the consultant is aware, resolution of obstructions is not resolved through the use of the Modification of Standards (MOS) process and is not new to the consultant.

**Reference to MOS request has been deleted.**

5. Page 2 – Unless the sponsor proposes to meet the 3 degree design standards for the Obstacle Clearance Surface (OCS) for the PAPI, its installation is not approved.

**The PAPI obstacle clearance surfaces for Runway 32 appear to be free of obstructions. A survey has not yet been completed to verify. The PAPI reference has been revised in the report.**

6. Page 5 – The sponsor, not the FAA selects an Airport Reference Code (ARC). The ARC is identified by the Sponsor on their ALP. The report gives the impression that this was somehow imposed upon the sponsor.

**Text revised to remove the impression noted.**



7. Page 8 – The design effort is supposed to produce a specific alternative which is consistent with the approved ALP. It would appear that the consultant's purpose was to attempt to revisit the approved ALP alternative during the design effort.

**The study reviewed alternatives desired by the Owner to minimize off Airport Property impacts in accordance with the ALP. The alternatives presented will assist in documentation of alternatives if additional NEPA analysis is required for the property acquisition. The text has been revised to address comments.**

8. Page 9 – Buildings at the airport do penetrate the Part 77 transitional surfaces but not the primary surface.

**The report reflects this comment.**

9. Page 9 – No data has been supplied to the FAA to substantiate whether the proposed PAPI meets the OCS. As noted on Page 10, insufficient data currently exists to conclude whether it would meet those criteria. Until that data is available, the FAA cannot consider installation of a PAPI.

**The report text has been revised to more clearly state requirements for a PAPI OCS survey and design to confirm standards are met.**

10. Page 15 – The FAA did not issue a "waiver" to the Threshold Siting Surface (TSS) as identified as we do not have the ability to do so.

**The reference to the waiver has been removed. The Runway 32 landing threshold was temporarily displaced for a period of time but was returned to full length after coordination with FAA officials.**

11. Page 17 – The correct designation would be FAR Part 77.

**Revised as noted.**

12. The Sponsor's proposed plan which addresses FAA design standards is identified on the approved ALP. That plan identifies how the Sponsor proposes to address all of those standards.

**Text revised to address comment.**

13. Page 23 – The access road is considered a public road as the public is permitted to use it unrestricted.

**Text revised as noted.**

14. Page 23 – The consultant unsuccessfully attempted to categorize a public road with no height restrictions as a private road without providing any credible means to meet the

requirements under Part 77. The road designation under Part 77 is determined by the height of vehicles expected to use the road. As the consultant identified that vehicles greater than 10 feet in height would use the road, there is no credible basis to consider it a private road.

**Clarification has been provided and the road is considered public by standards. The text has been revised to clarify.**

15. Page 26 – The Rickman through the fence agreement also requires Rickman to lower the access road.

**This requirement is understood. Text revised to note comment.**

16. Page 26 – See comment (4) regarding MOS for Part 77 penetrations.

**Reference to MOS removed.**

17. Page 27 – See comment (4) regarding MOS for Part 77 penetrations.

**Reference to MOS removed.**

18. Page 28 – The FAA has already provided guidance to the consultant regarding the additional property acquisition option selected by the sponsor for resolving the lowering of the road.

**The text has been revised as noted. Additional environmental assessment may be required for the additional fee simple land acquisition and business relocations required.**

19. Page 30 – Advisory Circular 150-5300-13 identifies that clearing standards include FAR Part 77.

**Text revised as noted.**

20. Page 30 – See comment (4) regarding MOS for Part 77 penetrations.

**Text revised as noted.**

21. Page 32 – The FAA has already concurred with the sponsor's plan, as identified on the approved ALP, to resolve obstruction standards. That plan identified meeting the 15-foot public road standard for the area under study.

**Comment acknowledged. Text revised to refer to approved ALP.**

Scanned



U. S. Department  
Of Transportation

Federal Aviation  
Administration

WASHINGTON AIRPORTS DISTRICT OFFICE  
23723 Air Freight Lane, Suite 210  
Dulles, Virginia 20166  
Telephone: 703/661-1359 Fax: 703/661-1370

January 12, 2011

Mr. Keith Miller, Executive Director  
Montgomery County Revenue Authority  
101 Monroe Street, Suite 410  
Rockville, Maryland 20850

Re: Montgomery County Airpark  
AIP 3-24-0018-019  
Remove Obstructions - Design Report

Dear Mr. Miller:

We have completed our review of the preliminary design study report dated November 2010 for the referenced project. Based on our review we have developed comments which must be addressed in the next submittal. If you have any questions please contact our office.

Sincerely,

Original Signed By  
Thomas A. Priscilla

Thomas A. Priscilla, Jr.  
Baltimore Metro Engineer

Enclosure

Cc: Mr. Solanki, MAA (W/enc.)  
Mr. Kundrot, Delta (W/enc.) ✓

Montgomery County Airpark  
Preliminary Design Report  
AIP 3-24-0018-019

- (1) Page 2 – the obstruction removal program is based upon those identified the approved Airport Layout Plan (ALP).
- (2) Page 2 – The goal of this study was not to evaluate conditions of the Runway 32 end but to better quantify how the obstruction removal program identified on the ALP was going to be implemented. The decisions regarding compliance with FAA standards are made when the ALP is submitted and approved.
- (3) Page 2 – This study did not determine that lowering the access road is not feasible but in fact documented that it can be lowered in accordance with the approved ALP and that additional properties are effected.
- (4) Page 2 – As the consultant is aware, resolution of obstructions is not resolved through the use of the Modification of Standards (MOS) process and is not new to the consultant.
- (5) Page 2 – Unless the sponsor proposes to meet the 3 degree design standards for the Obstacle Clearance Surface (OCS) for the PAPI, its installation is not approved.
- (6) Page 5 – The sponsor, not the FAA selects an Airport Reference Code (ARC). The ARC is identified by the Sponsor on their ALP. The report gives the impression that this was somehow imposed upon the sponsor.
- (7) Page 8 – The design effort is supposed to produce a specific alternative which is consistent with the approved ALP. It would appear that the consultant's purpose was to attempt to revisit the approved ALP alternative during the design effort.
- (8) Page 9 – Buildings at the airport do penetrate the Part 77 transitional surfaces but not the primary surface.
- (9) Page 9 – No data has been supplied to the FAA to substantiate whether the proposed PAPI meets the OCS. As noted on Page 10, insufficient data currently exists to conclude whether it would meet those criteria. Until that data is available, the FAA cannot consider installation of a PAPI.
- (10) Page 15 – The FAA did not issue a "waiver" to the Threshold Siting Surface (TSS) as identified as we do not have the ability to do so.
- (11) Page 17 – The correct designation would be FAR Part 77.
- (12) Page 17 – The Sponsor's proposed plan which addresses FAA design standards is identified on the approved ALP. That plan identifies how the Sponsor proposes to address all of those standards.
- (13) Page 23 – The access road is considered a public road as the public is permitted to use it unrestricted.
- (14) Page 23 – The consultant unsuccessfully attempted to categorize a public road with no height restrictions as a private road without providing any credible means to meet the requirements under Part 77. The road designation under Part 77 is determined by the height of vehicles expected to use the road. As the consultant identified that vehicles greater than 10 foot in height would use the road, there is no credible basis to consider it a private road.

- (15) Page 26 – The Rickman through the fence agreement also requires Rickman to lower the access road.
- (16) Page 26 – See comment (4) regarding MOS for Part 77 penetrations.
- (17) Page 27 – See comment (4) regarding MOS for Part 77 penetrations.
- (18) Page 28 – The FAA has already provided guidance to the consultant regarding the additional property acquisition option selected by the sponsor for resolving the lowering of the road.
- (19) Page 30 – Advisory Circular 150-5300-13 identifies that clearing standards include FAR Part 77.
- (20) Page 30 - See comment (4) regarding MOS for Part 77 penetrations.
- (21) Page 32 – The FAA has already concurred with the sponsors plan, as identified on the approved ALP, to resolve obstruction standards. That plan identified meeting the 15 foot public road standard for the area under study.

# **APPENDIX F**

Public and Agency Review





*Larry Hagan, Governor*  
*Boyd K. Rutherford, Lt. Governor*  
*Mark J. Belton, Secretary*  
*Frank W. Dawson, III, Deputy Secretary*

June 26, 2015

Mary Ashburn Pearson  
Delta Airport Consultants, Inc.  
9711 Farrar Court, Suite 100  
Richmond, VA 23236

**RE: Environmental Review for Runway 14-32 Obstruction Removal, west side trees, Montgomery County Airpark, Montgomery County, MD.**

Dear Ms. Pearson:

The Wildlife and Heritage Service has determined that there are no State or Federal records for rare, threatened or endangered species within the boundaries of the project site as delineated. As a result, we have no specific comments or requirements pertaining to protection measures at this time. This statement should not be interpreted however as meaning that rare, threatened or endangered species are not in fact present. If appropriate habitat is available, certain species could be present without documentation because adequate surveys have not been conducted.

Thank you for allowing us the opportunity to review this project. If you should have any further questions regarding this information, please contact me at (410) 260-8573.

Sincerely,

Lori A. Byrne,  
Environmental Review Coordinator  
Wildlife and Heritage Service  
MD Dept. of Natural Resources

ER# 2015.0835.mo

DELTA AIRPORT  
CONSULTANTS

JUL 07 2015

RICHMOND, VA



January 4, 2016

**Memorandum**

**To:** Distribution List- via Email Only

**From:** Mary Ashburn Pearson, AICP  
Delta Airport Consultants, Inc.

**Reference:** Montgomery County Airpark, Supplemental Environmental Assessment  
Agency Coordination Letter- **Invitation to Comment**

In 2006, the Montgomery County Revenue Authority (MCRA), owner and operator of the Montgomery County Airpark, completed an Environmental Assessment (EA) for proposed airport improvements, including:

- Remove obstructions for Runway 14/32
- Lower adjacent access road and parking lot
- Acquire approximately 26 acres for Runway Protection Zone (RPZ) control
- Install holding position signage and marking and install Precision Approach Path Indicator (PAPI) lights

A Finding of No Significant Impact (FONSI) was issued by FAA in June 2006.

The 2006 EA identified the existing, off-airport access road and parking lot on the Runway 32 (southeastern) end, leading to Woodfield Road (State Route 124), as penetrations to the proposed 14 CFR Part 77 airspace surfaces, and recommended that the road and parking lot be lowered to mitigate the terrain penetrations.

In 2011, a Preliminary Engineering effort was conducted which concluded that lowering the access road and parking lot in place, as proposed in the 2006 EA, is not feasible. The Preliminary Engineering report recommended that the access road be relocated and lowered/modified, and the buildings and parking lot pavement on the adjacent parcels be demolished and the associated businesses relocated.

MCRA has retained Delta Airport Consultants, Inc. to prepare a Supplemental EA to update the 2006 EA with the acquisition of these two additional parcels. The Supplemental EA is to be prepared consistent with the guidelines of the National Environmental Policy Act (NEPA) and FAA Order 1050.1F, *Environmental Impacts: Policies and Procedures*.





January 4, 2016  
Page 2

**The purpose of this letter is to invite interested and involved parties to comment on items for the applicant to consider during the Supplemental EA process.** You are included in the distribution list for this agency scoping memo because you, or your agency, were included during the 2006 EA agency coordination effort.

### **Proposed Action**

The Proposed Action in the 2016 Supplemental EA is the fee-simple acquisition of two parcels (Parcels 28 and 29 on the attached exhibit); the grading/demolition of the pavement and buildings on Parcels 28 and 29; the relocation of the access road to serve Parcel 33. A fence is to be installed around the newly acquired airport property. There are three parcels within the study area (33, 28, and 29); only two (28 and 29) are proposed to be acquired.

### **Existing Land Use**

GAI is an operating, general aviation airport located in Montgomery County, Maryland near the intersection of State Route 115 and State Route 124 (Woodfield Road). The airport property is heavily developed. Industrial land uses border the airport on all sides. Parcel 33 houses an airport hangar; Parcels 28 and 29 contain businesses (a gym and three auto-related shops, respectively).

### **Environmental Analysis**

The Supplemental EA is to supplement only those document sections in the 2006 EA requiring update and is to provide concise analysis only for the potential environmental impacts that the Proposed Action, if any, may cause.

Because the project area consists of three industrial, paved and previously disturbed sites, no impacts to biotic and natural resources or water resources are anticipated. A search of the United States Fish and Wildlife Service (USFWS) Information, Planning, and Conservation (IPaC) database did not identify any endangered species or critical habitat within the study area. According to online USFWS National Wetlands Inventory (NWI) data, there are no wetlands within the study area; and Federal Emergency Management Agency (FEMA) floodplain data confirms the absence of floodplains within the study area. Coordination with the Maryland Historical Trust (MHT) conducted in July 2015 confirmed that there are no historic properties affected by the proposed undertaking.

Montgomery County has been designated by the Environmental Protection Agency (EPA) as a non-attainment area for ozone; per the 2006 EA, the proposed



January 4, 2016  
Page 3

improvements would not have a significant, adverse impact on air quality. No air quality analysis is included in the environmental effort.

A Natural Resources Inventory (NRI) and Forest Stand Delineation (FSD) and report were prepared during the previous EA; the FSD is to be updated to include the three additional parcels within the EA study area. The NRI is also to be updated during this effort to confirm the absence of threatened and endangered species and wetlands in the project area. Coordination with USFWS and Maryland Department of Natural Resources (MDNR) is to be conducted during the Supplemental EA effort as part of the updated NRI/FSD.

A Phase 1 Environmental Due Diligence Audit (EDDA) was conducted on the three parcels in 2011 to identify any hazardous materials; the audit found minor soil contamination on Parcels 28 and 29. The Phase 1 EDDA is to be revisited and updated as appropriate during this Supplemental EA effort, and sub-surface investigation is to be conducted on Parcels 28 and 29. The Supplemental EA effort also includes environmental building materials inspections for the buildings on Parcels 28 and 29, which are slated to be demolished.

A proposed project exhibit and a USGS quad map have been enclosed for your reference.

Please send all comments to the address below or to [mapearson@deltairport.com](mailto:mapearson@deltairport.com) no later than February 5, 2016.

Ms. Mary Ashburn Pearson, AICP  
Delta Airport Consultants, Inc.  
9711 Farrar Court, Suite 100  
Richmond, VA 23236

If you have any questions or need further information, please do not hesitate to contact me.

Thank you for your consideration in this matter.

cc: Mr. Keith Miller, MCRA



January 4, 2016  
Page 4

## **Agency Distribution List- Via Email Only**

### **Federal Agencies**

Mr. Marcus Brundage, REM, CHS-V  
Washington Airports District Office  
Federal Aviation Administration  
23723 Air Freight Lane, Suite 210  
Dulles, VA 20166  
[Marcus.brundage@faa.gov](mailto:Marcus.brundage@faa.gov)  
703-661-1365

Ms. Julie Slacum  
U.S. Fish and Wildlife Service  
Chesapeake Bay Field Office  
Division of Strategic Habitat  
177 Admiral Cochrane Drive  
Annapolis, Maryland 21401  
[Julie\\_thompson@fws.gov](mailto:Julie_thompson@fws.gov)  
410-573-4595

Mr. James Myers  
District Conservationist  
U.S. Department of Agriculture  
Natural Resources Conservation Service, Montgomery County Service Center  
18410 Muncaster Road  
Derwood, MD 20855-1421  
[James.myers@md.usda.gov](mailto:James.myers@md.usda.gov)  
301-590-2855

Mr. Steve Harman  
U.S. Army Corps of Engineers  
Baltimore Districts Office  
PO Box 1715  
Baltimore, MD 21203-1715  
[Steve.harman@usace.army.mil](mailto:Steve.harman@usace.army.mil)  
410-962-6082



January 4, 2016  
Page 5

Mr. Shawn M. Garvin  
Administrator – Region 3  
U.S. Environmental Protection Agency  
1650 Arch Street (3PM52)  
Philadelphia, Pennsylvania 19103  
[R3\\_RA@EPA.gov](mailto:R3_RA@EPA.gov)  
215-814-2900

### **State Agencies**

Mr. William Krozack  
Airport Services Manager  
Office of Regional Aviation Assistance  
Maryland Aviation Administration  
P.O. Box 8766  
BWI Airport, Maryland 21240  
[wkrozack@bwiairport.com](mailto:wkrozack@bwiairport.com)  
410-859-7137

Ms. Linda Janey  
Director of Clearinghouse  
Maryland Department of Planning  
Clearinghouse  
301 Preston Street  
Baltimore, MD 21201-2365  
[Linda.janey@maryland.gov](mailto:Linda.janey@maryland.gov)  
410-767-4490

Ms. Emily H. Wilson  
Director  
Land Acquisition and Planning  
Maryland Department of Natural Resources  
Tawes State Office Bldg., E4  
580 Taylor Avenue  
Annapolis, MD 21401-2397  
[Emilyh.wilson@maryland.gov](mailto:Emilyh.wilson@maryland.gov)  
410-260-8436



January 4, 2016  
Page 6

Ms. Marian Honeczy, AICP  
Supervisor of Urban Programs & FCA Coordinator  
Maryland Department of Natural Resources  
Tawes State Office Bldg., E1  
580 Taylor Avenue  
Annapolis, MD 21401-2397  
[Marian.honeczy@maryland.gov](mailto:Marian.honeczy@maryland.gov)  
410-260-8511

Mr. Brian J. Hug  
Deputy Program Manager  
Air Quality Planning Program  
Maryland Department of the Environment  
1800 Washington Boulevard  
Baltimore, MD 21230  
[Brian.hug@maryland.gov](mailto:Brian.hug@maryland.gov)  
410-537-4125

Mr. Bruce Michael  
Unit Director, RAS  
Resource Assessment Service  
Maryland Department of Natural Resources  
Tawes State Office Bldg., C2  
580 Taylor Avenue  
Annapolis, MD 21401-2397  
[Bruce.michael@maryland.gov](mailto:Bruce.michael@maryland.gov)  
410-260-8627

Mr. Glenn Therres  
Associate Director, Natural Heritage Program  
Wildlife and Heritage Service  
Maryland Department of Natural Resources  
Tawes State Office Bldg., E1  
580 Taylor Avenue  
Annapolis, MD 21401-2397  
[Glenn.therres@maryland.gov](mailto:Glenn.therres@maryland.gov)  
410-260-8572



January 4, 2016  
Page 7

Ms. Amanda Sigillito  
Division Chief  
Non-Tidal Wetlands Division  
Maryland Department of the Environment  
1800 Washington Blvd.  
Baltimore, MD 21230  
[asigillito@mde.state.md.us](mailto:asigillito@mde.state.md.us)  
410-537-3766

Mr. Steve Connelly  
Assistant Secretary Marketing Department  
Maryland Department of Agriculture  
50 Harry Truman Parkway  
Annapolis, MD 21401  
[Steve.connelly@maryland.gov](mailto:Steve.connelly@maryland.gov)  
410-841-5786

Mr. William Leahy  
Executive Director  
Maryland Environmental Trust  
100 Community Place – 1<sup>st</sup> Floor  
Crownsville, MD 21032-2023  
[william.leahy@maryland.gov](mailto:william.leahy@maryland.gov)  
410-514-7903

### **Local / County Agencies**

Ms. Gwen Wright  
Planning Director  
Montgomery County Planning Department  
of the Maryland-National Capitol Park & Planning Commission  
8787 Georgia Avenue  
Silver Spring, MD 20910  
[Gwen.wright@montgomeryplanning.org](mailto:Gwen.wright@montgomeryplanning.org)  
301-495-4610



January 4, 2016  
Page 8

Mr. Glenn Kreger  
Division Chief Area 2  
Montgomery County Planning Department  
of the Maryland-National Capitol Park & Planning Commission  
8787 Georgia Avenue  
Silver Spring, MD 20910  
[Glenn.kreger@montgomeryplanning.org](mailto:Glenn.kreger@montgomeryplanning.org)  
301-495-4610

Mr. Steve Findley  
Gaithersburg Vicinity  
Community Based Planning Division  
Montgomery County Planning Department  
of the Maryland-National Capitol Park & Planning Commission  
8787 Georgia Avenue  
Silver Spring, MD 20910  
[Steve.findley@montgomeryplanning.org](mailto:Steve.findley@montgomeryplanning.org)  
301-495-4727

Ms. Holly Adams  
Community Based Planning Division – Area 2  
Montgomery County Planning Department  
of the Maryland-National Capitol Park & Planning Commission  
8787 Georgia Avenue  
Silver Spring, MD 20910  
[Holly.adams@montgomeryplanning.org](mailto:Holly.adams@montgomeryplanning.org)  
301-495-4657

Ms. Lisa Feldt  
Director  
Montgomery County Department of Environmental Protection  
255 Rockville Pike, Suite 120  
Rockville, MD 20850  
[Lisa.feldt@montgomerycountymd.gov](mailto:Lisa.feldt@montgomerycountymd.gov)  
240-777-7730



January 4, 2016  
Page 9

Ms. Sally Sternback  
Acting Director, Chief, MBD  
Montgomery County Department of Economic Development  
111 Rockville Pike, Suite 800  
Rockville, MD 20850  
[Sally.sternbach@montgomerycountymd.gov](mailto:Sally.sternbach@montgomerycountymd.gov)  
240-777-2078

Mr. Craig Simoneau, P.E.  
Director  
Montgomery County Department of Public Works and Administration  
111 Maryland Ave.  
Rockville, MD 20850  
[pw@rockvillemd.gov](mailto:pw@rockvillemd.gov)  
240-314-8500

Mr. Ike Leggett  
County Executive  
Montgomery County  
101 Monroe Street, 2<sup>nd</sup> Flr.  
Rockville, MD 20850  
[ocemail@montgomerycountymd.gov](mailto:ocemail@montgomerycountymd.gov)  
240-777-0311

Ms. Nancy Floreen  
President  
Montgomery County Council  
100 Maryland Ave., 6<sup>th</sup> Flr.  
Rockville, MD 20850  
[Councilmember.floreen@montgomerycountymd.gov](mailto:Councilmember.floreen@montgomerycountymd.gov)  
240-777-7959

Ms. Susan Swift, AICP  
Director  
Montgomery County Community Planning and Development Services  
111 Maryland Ave.  
Rockville, MD 20850  
[sswift@rockvillemd.gov](mailto:sswift@rockvillemd.gov)  
240-314-8202





**DELTA AIRPORT  
CONSULTANTS, INC.**

January 4, 2016

Page 10

Ms. Diane Schwartz Jones

Director

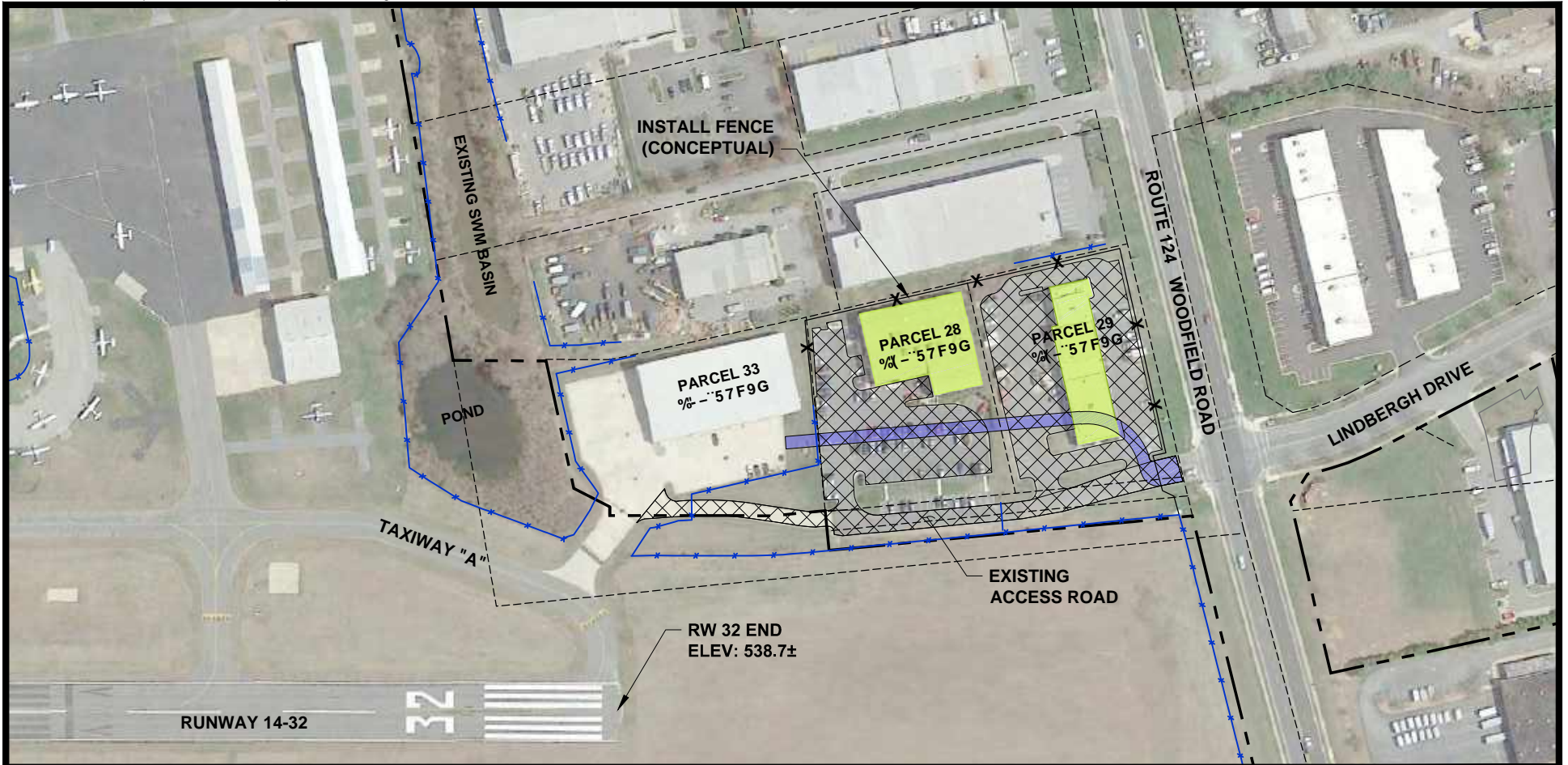
Montgomery County Department of Permitting Services

255 Rockville Pike, 2<sup>nd</sup> Flr

Rockville, MD 20850-4166

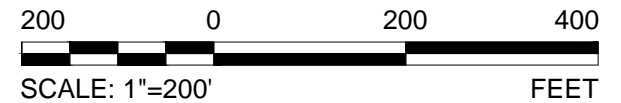
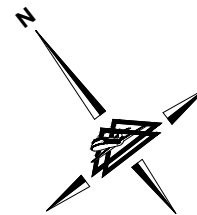
[Diane.jones@montgomerycountymd.gov](mailto:Diane.jones@montgomerycountymd.gov)

240-777-0311



**LEGEND**

- EXISTING AIRPORT PROPERTY LINE
- EXISTING FENCE LINE
- PROPOSED FENCE LINE
- PARCEL LINE
- PROPOSED BUILDING DEMOLITION
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED ROAD REALIGNMENT (CONCEPTUAL)



**PROPOSED ACTION - 2016 SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT  
MONTGOMERY COUNTY AIRPARK**

**EXHIBIT  
1**



**USGS MAP (AFFECTED ENVIRONMENT)  
MONTGOMERY COUNTY AIRPARK**

**EXHIBIT  
2**

DATE: DECEMBER 2015

SCALE: MAP CHECKED BY: DRAWN BY:

## Mary Ashburn Pearson

---

**From:** William Krozack <WKrozack@bwiairport.com>  
**Sent:** Tuesday, January 05, 2016 2:13 PM  
**To:** Kimberly A. Marcia  
**Subject:** RE: Project: GAI-Supplemental EA for LA-Obstr Removal - File Transfer - Montgomery County Airpark - Agency Coordination Letter

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Good\*aukeg oo \*Ki ,\*

+

No\*co e k\*úto \*MAA...\*

+

Besk\*gegagds,\*

+

Bill\*

+

Willia \*M.\*Kgozack,\*C.M.\*

Magyla d\*Aviakio \*Ad i iskgaio \*

Aigpogk\* egvices\*Ma ageg\*

!"#\$%&' \$ ") ( \*oúice\*

!"#\$%&' \$( , %& \*\* A. +

/// . agyla dgegio alaviakio .aego\*

+

+

---

**From:** Kimberly A. Marcia [mailto:KMarcia@deltairport.com]

**Sent:** Tuesday, January 05, 2016 11:09 AM

**To:** Marcus.Brundage@faa.gov; julie\_thompson@fws.gov; James.myers@md.usda.gov; Steve.Harman@usace.army.mil; R3\_RA@EPA.gov; William Krozack; linda.janey@maryland.gov; Emilyh.wilson@maryland.gov; Marian.honeczy@maryland.gov; brian.hug@maryland.gov; bruce.michael@maryland.gov; glenn.therres@maryland.gov; Aamanda.sigillito@maryland.gov; Steve.connelly@maryland.gov; Elizabeth.buxton@maryland.gov; Gwen.wright@montgomerycountyplanning.org; Glenn.kreger@montgomerycountyplanning.org; Steve.findley@montgomerycountyplanning.org; Holly.adams@montgomerycountyplanning.org; Lisa.feldt@montgomerycountymd.gov; Sally.sternbach@montgomerycountymd.gov; pw@rockvillemd.gov;



14115

*Larry Hagan, Governor*  
*Boyd Rutherford, Lt. Governor*  
*Mark Belton, Secretary*  
*Joanne Throwe, Deputy Secretary*

January 11, 2016

Ms. Mary Ashburn Pearson  
Delta Airport Consultants, Inc.  
9711 Farrar Court  
Suite 100  
Richmond, Virginia 23236

DELTA AIRPORT  
CONSULTANTS

JAN 15 2016

RICHMOND, VA

**RE: Environmental Review for Montgomery County Airpark - supplemental EA for Airport Improvements, Montgomery County, Maryland.**

Dear Ms. Pearson:

The Wildlife and Heritage Service has determined that there are no State or Federal records for rare, threatened or endangered species within the boundaries of the project site as delineated. As a result, we have no specific comments or requirements pertaining to protection measures at this time. This statement should not be interpreted however as meaning that rare, threatened or endangered species are not in fact present. If appropriate habitat is available, certain species could be present without documentation because adequate surveys have not been conducted.

Thank you for allowing us the opportunity to review this project. If you should have any further questions regarding this information, please contact me at (410) 260-8573.

Sincerely,

Lori A. Byrne,  
Environmental Review Coordinator  
Wildlife and Heritage Service  
MD Dept. of Natural Resources

ER# 2016.0015.mo

14115



Maryland Department of Planning

Larry Hogan, Governor  
Boyd Rutherford, Lt. Governor

David R. Craig, Secretary  
Wendi W. Peters, Deputy Secretary

January 7, 2016

DELTA AIRPORT  
CONSULTANTS  
JAN 25 2016  
RICHMOND, VA

Ms. Mary Ashburn Pearson, AICP  
Delta Airport Consultants, Inc.  
9711 Farrar Court, Suite 100  
Richmond, VA 23236

Scanned

**STATE CLEARINGHOUSE REVIEW PROCESS – “EXPEDITE”**

**State Application Identifier:** MD20160107-0009  
**Reply Due Date:** 01/31/2016  
**Project Description:** Scoping Prior to the Supplemental Environmental Assessment for fee-simple Land Acquisition (Parcels 28 and 29) and Obstruction Removal Project at the Montgomery County Airpark (Prior: MD20060803-0866)  
**Project Address:** 7940 Airpark Road, Gaithersburg, MD 20879  
**Project Location:** County(ies) of Montgomery  
**Clearinghouse Contact:** Myra Barnes


Dear Ms. Ashburn Pearson:

Thank you for submitting your project for intergovernmental review. Your participation in the Maryland Intergovernmental Review and Coordination (MIRC) process helps to ensure that your project will be consistent with the plans, programs, and objectives of State agencies and local governments.

We have forwarded your project to the following agencies and/or jurisdictions for their review and comments: the Maryland Department(s) of Transportation, the Environment, Natural Resources; the County(ies) of Montgomery; the Regional Agency(ies) of Maryland-National Capital Park and Planning Commission in Montgomery; and the Maryland Department of Planning; including Maryland Historical Trust. A composite review and recommendation letter will be sent to you by the reply due date. Your project has been assigned a unique State Application Identifier that you should use on all documents and correspondence.

Please be assured that we will expeditiously process your project. The issues resolved through the MIRC process enhance the opportunities for project funding and minimize delays during project implementation. Also, if you need assistance or have questions, contact the State Clearinghouse staff noted above at 410-767-4490 or through e-mail at myra.barnes@maryland.gov. Thank you for your cooperation with the MIRC process.

DELTA AIRPORT  
CONSULTANTS  
JAN 25 2016  
RICHMOND, VA

Sincerely,  
  
Linda C. Janey, J.D., Assistant Secretary

LCJ:MB  
cc: Steve Findley - MNCPPC - Gaithersburg

16-0009\_NRR.NEW.doc



**MONTGOMERY COUNTY PLANNING DEPARTMENT**  
THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION

February 5, 2016

Ms. Mary Ashburn Pearson, AICP  
Delta Airport Consultants, Inc.  
9711 Farrar Court, Suite 100  
Richmond, VA 23236

Dear Ms. Pearson:

In response to your request for comments on the Montgomery County Airpark, Supplemental Environmental Assessment Invitation to Comment, the Montgomery County Planning Department offers the following comments. For tracking purposes, this project has been assigned the project review number MR2016016 and is being reviewed by the Planning Department as an administrative level Mandatory Referral.

Comments:

1. This project is in conformance with the recommendations in the 1985 Approved and Adopted Gaithersburg Vicinity Master Plan and the zoning on the site.
2. If this project requires obtaining a Sediment Control Permit, there is typically a requirement to be in compliance with Chapter 22A, Forest Conservation. If compliance with Chapter 22A is required, staff recommends that application be made to the Planning Department for an exemption to Article II of Chapter 22A. There are two exemptions that could apply: Under the (t) exemption provisions of the Forest Conservation Law, an exemption may be granted for a modification to an existing non residential developed property if:
  - a. No more than 5,000 square feet of forest is ever cleared at one time or cumulatively after an exemption is issued;
  - b. The modification does not result in the cutting, clearing, or grading of any forest in a stream buffer or located on a property in a special protection area which must submit a water quality plan;
  - c. The modification does not require approval of a preliminary plan of subdivision; and
  - d. The modification does not increase the developed area by more than 50% and the exiting development is maintained. (In order to meet this criterion, the exemption application should include Parcel 33 so that the requirement to retain the existing development can be met.)

The other potential exemption is the (s) exemption. This exemption applies to:

- a. An activity occurring on a tract of land less than 1.5 acres with no existing forest, or existing specimen or champion tree, and the afforestation requirements would not exceed 10,000 square feet. (To qualify for this exemption, application would have to be made separately for Parcel 28 and Parcel 29, as each is approximately 1.4 acres in size.)

Please do not hesitate to contact me if you have any questions or concerns. Thank you for the opportunity to comment.



Stephen J. Endley  
FBI Administrative Services Unit Planning Division  
M. NORPC, Montgomery County Planning Department  
301-495-4727





Maryland Department of Planning

Larry Hogan, Governor  
Boyd Rutherford, Lt. Governor

David H. Craig, Secretary  
Wendi W. Peters, Deputy Secretary

February 4, 2016

Ms. Mary Ashburn Pearson, AICP  
Delta Airport Consultants, Inc.  
9711 Farrar Court, Suite 100  
Richmond, VA 23236

**STATE CLEARINGHOUSE RECOMMENDATION**

**State Application Identifier: MD20160107-0009**

**Applicant: Delta Airport Consultants, Inc.**

**Project Description:** Scoping Prior to the Supplemental Environmental Assessment for fee-simple Land Acquisition (Parcels 28 and 29) and Obstruction Removal Project at the Montgomery County Airpark (Prior: MD20060803-0866)

**Project Address:** 7940 Airpark Road, Gaithersburg, MD 20879

**Project Location:** County(ies) of Montgomery

**Approving Authority:** U.S. Department of Transportation DOT/FAA

**Recommendation:** Consistent with Qualifying Comment(s)

Dear Ms. Ashburn Pearson:

In accordance with Presidential Executive Order 12372 and Code of Maryland Regulation 34.02.01.04-.06, the State Clearinghouse has coordinated the intergovernmental review of the referenced project. This letter, with attachments, constitutes the State process review and recommendation based upon comments received to date. This recommendation is valid for a period of three years from the date of this letter.

Review comments were requested from the Maryland Department(s) of Natural Resources, Transportation, the Environment; Montgomery County; Maryland National Capital Parks and Planning Commission - Montgomery County; and the Maryland Department of Planning, including the Maryland Historical Trust. As of this date, the Maryland Department(s) of Natural Resources and Transportation have not submitted comments. This recommendation is contingent upon the applicant considering and addressing any problems or conditions that may be identified by their review. Any comments received will be forwarded.

Montgomery County; the Maryland National Capital Parks and Planning Commission - Montgomery County; and the Maryland Department of Planning, including the Maryland Historical Trust found this project to be consistent with their plans, programs, and objectives.

The Maryland-National Capital Park and Planning Commission - Montgomery County stated that the "project is in substantial conformance with the adopted Gaithersburg Vicinity Master Plan (1985)."

The Maryland Historical Trust has determined that the project will have "no effect" on historic properties and that the federal and/or State historic preservation requirements have been met.

The Maryland Department of Environment found (MDE) this project to be generally consistent with their plans, programs, and objectives, but included certain qualifying comments summarized below.

1. Any above ground or underground petroleum storage tanks, which may be utilized, must be installed and maintained in accordance with applicable State and federal laws and regulations. Underground storage tanks must be registered and the installation must be conducted and performed by a contractor certified to install underground storage tanks by the Land Management Administration in accordance with COMAR 26.10. Contact the Oil Control Program at (410) 537-3442 for additional information.
2. If the proposed project involves demolition – Any above ground or underground petroleum storage tanks that may be on site must have contents and tanks along with any contamination removed. Please contact the Oil Control Program at (410) 537-3442 for additional information.
3. Any solid waste including construction, demolition and land clearing debris, generated from the subject project, must be properly disposed of at a permitted solid waste acceptance facility, or recycled if possible. Contact the Solid Waste Program at (410) 537-3315 for additional information regarding solid waste activities and contact the Waste Diversion and Utilization Program at (410) 537-3314 for additional information regarding recycling activities.
4. The Waste Diversion and Utilization Program should be contacted directly at (410) 537-3314 by those facilities which generate or propose to generate or handle hazardous wastes to ensure these activities are being conducted in compliance with applicable State and federal laws and regulations. The Program should also be contacted prior to construction activities to ensure that the treatment, storage or disposal of hazardous wastes and low-level radioactive wastes at the facility will be conducted in compliance with applicable State and federal laws and regulations.
5. Any contract specifying “lead paint abatement” must comply with Code of Maryland Regulations (COMAR) 26.16.01 - Accreditation and Training for Lead Paint Abatement Services. If a property was built before 1950 and will be used as rental housing, then compliance with COMAR 26.16.02 - Reduction of Lead Risk in Housing; and Environment Article Title 6, Subtitle 8, is required. Additional guidance regarding projects where lead paint may be encountered can be obtained by contacting the Environmental Lead Division at (410) 537-3825.
6. The proposed project may involve rehabilitation, redevelopment, revitalization, or property acquisition of commercial, industrial property. Accordingly, MDE's Brownfields Site Assessment and Voluntary Cleanup Programs (VCP) may provide valuable assistance to you in this project. These programs involve environmental site assessment in accordance with accepted industry and financial institution standards for property transfer. For specific information about these programs and eligibility, please contact the Land Restoration Program at (410) 537-3437.
7. Additional comments from the Science Services Administration are enclosed.

**Any statement of consideration given to the comments(s) should be submitted to the approving authority, with a copy to the State Clearinghouse.** The State Application Identifier Number must be placed on any correspondence pertaining to this project. The State Clearinghouse must be kept informed if the approving authority cannot accommodate the recommendation.

Please remember, you must comply with all applicable state and local laws and regulations. If you need assistance or have questions, contact the State Clearinghouse staff person noted above at 410-767-4490 or through e-mail at [myra.barnes@maryland.gov](mailto:myra.barnes@maryland.gov). **Also please complete the attached form and return it to the State Clearinghouse as soon as the status of the project is known. Any substitutions of this form must include the State Application Identifier Number. This will ensure that our files are complete.**

Thank you for your cooperation with the MIRC process.

Sincerely,



Linda C. Janey, J.D., Assistant Secretary

LCJ:MB

Enclosure(s)

cc: Steve Findley - MNCPPC - Gaithersburg

Tina Quinichette - MDOT

Amanda Degen - MDE

Greg Golden - DNR

Greg Ossont - MTGM

Cathy Conlon - MNCPPCM

Bihui Xu - MDPI-T

Peter Conrad - MDPL

Beth Cole - MHT

16-0009\_CRR.CLS.doc

**Scoping Prior to the Supplemental  
Environmental Assessment for fee-simple Land Acquisition  
(Parcels 28 and 29) and Obstruction Removal Project at the  
Montgomery County Airpark**

**Maryland Department of the Environment - Science Services Administration**

**REVIEW FINDING: R1 Consistent with Qualifying Comments  
MD20160107-0009**

The following additional comments are intended to alert interested parties to issues regarding water quality standards. The comments address:

**A. Water Quality Impairments:** Section 303(d) of the federal Clean Water Act requires the State to identify impaired waters and establish Total Maximum Daily Loads (TMDLs) for the substances causing the impairments. A TMDL is the maximum amount of a substance that can be assimilated by a waterbody such that it still meets water quality standards.

**Planners should be aware of existing water quality impairments identified on Maryland's 303(d) list. The Project is situated in the Seneca Creek and Rock Creek watersheds, identified by the MD 8-digit codes 02140208 and 02140206 which are currently impaired by several substances and subject to regulations regarding the Clean Water Act.**

Planners may find a list of nearby impaired waters by entering the 8-digit basin code into an on-line database linked to the following URL:  
<http://www.mde.state.md.us/programs/Water/TMDL/Integrated303dReports/Pages/303d.aspx>.

This list is updated every even calendar year. Planners should review this list periodically to help ensure that local decisions consider water quality protection and restoration needs. **Briefly, the current impairments that are relevant to the Project include the following:**

**Seneca Creek (02140208):**

<b>Nutrients:</b>	<b>Impoundment, Clopper Lake. A TMDL was written and approved by EPA.</b>
<b>Sediments:</b>	<b>Impoundment, Clopper Lake, Non-tidal. A TMDL was written and approved by EPA.</b>
<b>Chlorides:</b>	<b>Non-tidal. A TMDL is pending development.</b>

**Rock Creek (02140206):**

**Nutrients:** Non-tidal. A TMDL is pending development.  
**Bacteria:** Non-tidal. A TMDL was written and approved by EPA.  
**Sediments:** Non-tidal. A TMDL was written and approved by EPA.

**B. TMDLs:** Development and implementation of the any Plan should take into account consistency with TMDLs developed for the impaired waterbodies referenced above. Decisions made prior to the development of a TMDL should strive to ensure no net increase of impairing substances. TMDLs are made available on an updated basis at the following web site:

<http://www.mde.state.md.us/programs/Water/TMDL/CurrentStatus/Pages/Programs/WaterPrograms/TMDL/Summittals/index.aspx>

Special protections for high-quality waters in the local vicinity, which are identified pursuant to Maryland's anti-degradation policy;

**C. Anti-degradation of Water Quality:** Maryland requires special protections for waters of very high quality (Tier II waters). The policies and procedures that govern these special waters are commonly called "anti-degradation policies." This policy states that "proposed amendments to county plans or discharge permits for discharge to Tier II waters that will result in a new, or an increased, permitted annual discharge of pollutants and a potential impact to water quality, shall evaluate alternatives to eliminate or reduce discharges or impacts." These permitted annual discharges are not just traditional Point Sources, it can include all discharges such as Stormwater.

**Currently, Tier II waters are not present in the area surrounding the project.**

Planners should be aware of legal obligations related to Tier II waters described in the Code of Maryland Regulations (COMAR) 26.08.02.04 with respect to current and future land use plans. Information on Tier II waters can be obtained online at: <http://www.dsd.state.md.us/comar/comarhtml/26/26.08.02.04.htm> and policy implementation procedures are located at <http://www.dsd.state.md.us/comar/comarhtml/26/26.08.02.04-1.htm>

Planners should also note that since the Code of Maryland Regulations is subject to periodic updates. A list of Tier II waters pending Departmental listing in COMAR can be found, with a discussion and maps for each county, at the following website:

<http://www.mde.state.md.us/programs/Water/TMDL/Water%20Quality%20Standards/Pages/HighQualityWatersMap.aspx>

## **ADDITIONAL COMMENTS**

### **Chesapeake Bay TMDL**

With the completion of the Chesapeake Bay TMDL, the Chesapeake Bay Program Office (CBPO) will be able to provide loading data at a more refined scale than in the past. MDE will be able to use the CBPO data to estimate pollution allocations at the jurisdictional level (which will include Federal Facilities) to provide allocations to the Facilities. These allocations, both Wasteload (WLA) and Load Allocation (LA) could call for a reduction in both Point Sources and Nonpoint Sources. Facilities should be aware of reductions and associated implementation required by WIPs or FIPs.

### **Stormwater**

The project should consider all Maryland Stormwater Management Controls. Site Designs should consider all Environmental Site Design to the Maximum Extent Practicable and "Green Building" Alternatives. Designs that reduce impervious surface and BMPs that increase runoff infiltration are highly encouraged.

Further Information:

<http://www.mde.state.md.us/programs/Water/StormwaterManagementProgram/Pages/Programs/WaterPrograms/SedimentandStormwater/swm2007.aspx>

Environmental Site Design (Chapter 5):

<http://www.mde.state.md.us/programs/Water/StormwaterManagementProgram/MarylandStormwaterDesignManual/Documents/www.mde.state.md.us/assets/document/chapter5.pdf>

Redevelopment Regulations:

<http://www.dsd.state.md.us/comar/comarhtml/26/26.17.02.05.htm>

**Scoping Prior to the Supplemental  
Environmental Assessment for fee-simple  
Land Acquisition (Parcels 28 and 29) and  
Obstruction Removal Project at the  
Montgomery County Airport  
Montgomery County  
MD20160107-0009**



**Legend**

- Streams
- MD High Quality Waters
- ▨ MD High Quality Waters
- 8-digit Watershed

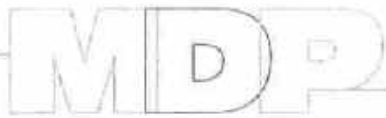
Map Date: 1/12/2016 Drawn By: MDE/SSA-NFL  
 Lat: 39°53'48"N Long: 77°52'30"W  
 Elevation: 548 ft



**Data Sources:**

Google Earth- US Geological Survey  
 Imagery - MD Map 2.0  
 Streets - State Highway Administration, USGS  
 Watersheds - 8-digit - MD Dept. of the Environment





Maryland Department of Planning

Larry Hogan, Governor  
Boyd Rutherford, Lt. Governor

David R. Craig, Secretary  
Wendli W. Peters, Deputy Secretary

### PROJECT STATUS FORM

Please complete this form and return it to the State Clearinghouse upon receipt of notification that the project has been approved or not approved by the approving authority.

**TO:** Maryland State Clearinghouse  
Maryland Department of Planning  
301 West Preston Street  
Room 1104  
Baltimore, MD 21201-2305

**DATE:** \_\_\_\_\_  
(Please fill in the date form completed)

**FROM:** \_\_\_\_\_  
(Name of person completing this form.)

**PHONE:** \_\_\_\_\_  
(Area Code & Phone number)

**RE:** State Application Identifier: MD20160107-0009  
Project Description: Scoping Prior to the Supplemental Environmental Assessment for fee-simple Land Acquisition (Parcels 28 and 29) and Obstruction Removal Project at the Montgomery County Airpark (Prior: MD20060803-0866)

<b>PROJECT APPROVAL</b>			
This project/plan was:	<input type="checkbox"/> Approved	<input type="checkbox"/> Approved with Modification	<input type="checkbox"/> Disapproved
Name of Approving Authority:			Date Approved:
_____			

<b>FUNDING APPROVAL</b>			
<i>The funding (if applicable) has been approved for the period of:</i>			
_____, 201__ to _____, 201__ as follows:			
Federal \$:	Local \$:	State \$:	Other \$:
_____	_____	_____	_____

<b>OTHER</b>	
<input type="checkbox"/>	<i>Further comment or explanation is attached</i>



30-Day Public Review of Draft Document  
August 20, 2017 - September 20, 2017  
No public comments received

Ad # 12124990  
Class 825 PO#

Name MONTGOMERY CO REVENUE AUTHORITY ATTN: KE  
Authorized by

Size 80 Lines

T0020  
Account 1010196335

PROOF OF PUBLICATION

District of Columbia, ss., Personally appeared before me, a Notary Public in and for the said District, Travona James well known to me to be BILLING SUPERVISOR of The Washington Post, a daily newspaper published in the City of Washington, District of Columbia, and making oath in due form of law that an advertisement containing the language annexed hereto was published in said newspaper on the dates mentioned in the certificate herein.

I Hereby Certify that the attached advertisement was published in The Washington Post, a daily newspaper, upon the following date(s) at a cost of \$1,325.00 and was circulated in the Washington metropolitan area.

Published 1 time(s). Date(s): 20 of August 2017

Account 1010196335

By

Witness my hand and official seal this 24<sup>th</sup> day of August 2017

My commission expires 5/31/2020

AUG 23 2017



Draft Supplemental Environmental Assessment for Montgomery Airpark Notice of Availability The Montgomery County Revenue Authority, owner and operator of the Montgomery County Airpark (GAI), proposes property interest acquisition of two parcels on the Runway 32 end for the purpose of obstruction removal, in accordance with the approved Airport Property Map. The purpose of the project is to remove obstructions to 14 CFR Part 77 airspace surfaces in accordance with FAA requirements. A Draft Supplemental Environmental Assessment (EA) has been prepared to examine the environmental consequences of the proposed project. The Federal Aviation Administration (FAA) is the lead agency under the National Environmental Policy Act (NEPA). A copy of the Draft Supplemental EA is available for public review during business hours at the following locations: Montgomery County Revenue Authority, 101 Monroe Street, Suite 410, Rockville, MD 20850; Gaithersburg Library, Circulation Desk, 18330 Montgomery Village Ave.; and online on the Montgomery County Airpark website (<http://www.montgomerycountyairpark.com/community-page-.html>). Comments received will be reviewed and addressed in the Final EA, as appropriate. Written comments to the EA may be submitted to: Mary A. Pearson, AICP, Delta Airport Consultants, Inc., 9711 Farrar Court, Suite 100, Richmond, VA 23236. Comments on the Draft Supplemental EA must be received no later than 5:00 pm Eastern Time, September 20, 2017. Before including your address, phone number, e-mail address, or other personal identifying information in your comment, be advised that your entire comment-including your personal identifying information- may be made publically available at any time. While you can ask us in your comment to withhold from public review your personal identifying information, we cannot guarantee that we will be able to do so.

30-Day Public Review of Draft Document  
August 20, 2017 - September 20, 2017  
No public comments received

30-Day Agency Review of Draft  
Document  
September 2017-October 2017

MARYLAND DEPARTMENT OF



Larry Hogan, Governor  
Boyd Rutherford, Lt. Governor

Robert S. McCord, Acting Secretary

September 26, 2017

Ms. Mary Ashburn Pearson, AICP  
Project Manager  
Delta Airport Consultants, Inc.  
9711 Farrar Court, Suite 100  
Richmond, VA 23236

**STATE CLEARINGHOUSE REVIEW PROCESS**

**State Application Identifier:** MD20170925-0837

**Reply Due Date:** 10/31/2017

**Project Description:** Draft Environmental Assessment for Land Acquisition and Obstruction Removal Project at the Montgomery County Airpark in Gaithersburg, Maryland (Prior: MD20160107-0009)

**Project Address:** 7940 Airpark Road, Gaithersburg, MD 20879

**Project Location:** Municipality(ies) of Montgomery-City of Gaithersburg

**Clearinghouse Contact:** Myra Barnes

Dear Ms. Ashburn Pearson:

Thank you for submitting your project for intergovernmental review. Your participation in the Maryland Intergovernmental Review and Coordination (MIRC) process helps to ensure that your project will be consistent with the plans, programs, and objectives of State agencies and local governments.

We have forwarded your project to the following agencies and/or jurisdictions for their review and comments: the Maryland Department(s) of Natural Resources, the Environment, Transportation; and the Maryland Department of Planning; including Maryland Historical Trust. A composite review and recommendation letter will be sent to you by the reply due date. Your project has been assigned a unique State Application Identifier that you should use on all documents and correspondence.

Please be assured that we will expeditiously process your project. The issues resolved through the MIRC process enhance the opportunities for project funding and minimize delays during project implementation. Also, if you need assistance or have questions, contact the State Clearinghouse staff noted above at 410-767-4490 or through e-mail at [myra.barnes@maryland.gov](mailto:myra.barnes@maryland.gov). Thank you for your cooperation with the MIRC process.

Sincerely,

A handwritten signature in blue ink that reads "Myra A. Barnes".

Myra Barnes, Lead Clearinghouse Coordinator

MB:MB

cc: Greg Ossont - MTGM  
17-0837\_NRR.NEW.docx



November 2, 2017

Ms. Mary Ashburn Pearson, AICP  
Project Manager  
Delta Airport Consultants, Inc.  
9711 Farrar Court, Suite 100  
Richmond, VA 23236

**STATE CLEARINGHOUSE RECOMMENDATION****State Application Identifier:** MD20170925-0837**Applicant:** Delta Airport Consultants, Inc.**Project Description:** Draft Environmental Assessment for Land Acquisition and Obstruction Removal Project at the Montgomery County Airpark in Gaithersburg, Maryland (Prior: MD20160107-0009)**Project Address:** 7940 Airpark Road, Gaithersburg, MD 20879**Project Location:** Municipality(ies) of Montgomery-City of Gaithersburg**Approving Authority:** U.S. Department of Transportation DOT/FAA**Recommendation:** Consistent with Qualifying Comment(s)

Dear Ms. Ashburn Pearson:

In accordance with Presidential Executive Order 12372 and Code of Maryland Regulation 34.02.01.04-.06, the State Clearinghouse has coordinated the intergovernmental review of the referenced project. This letter constitutes the State process review and recommendation. This recommendation is valid for a period of three years from the date of this letter.

Review comments were requested from the Maryland Department(s) of Natural Resources, Transportation, the Environment; and the Maryland Department of Planning, including the Maryland Historical Trust. As of this date, the Maryland Department(s) of Natural Resources and Transportation; have not submitted comments.

The Maryland Department of Planning, including the Maryland Historical Trust found this project to be consistent with their plans, programs, and objectives.

Our Department (Planning) noted that "this project will improve air facility safety by implementing FAA-mandated policies to remove height obstructions (i.e. tall tree's, buildings and roadways located within the runway protection zone). The airport and its associated improvements are located within a Priority Funding Area."

The Maryland Historical Trust has determined that the project will have "no effect" on historic properties and that the federal and/or State historic preservation requirements have been met.

The Maryland Department of Environment (MDE) found this project to be generally consistent with their plans, programs, and objectives, but included certain qualifying comments summarized below.

1. If the applicant suspects that asbestos is present in any portion of the structure that will be renovated/demolished, then the applicant should contact the Community Environmental Services Program at (410) 537-3215 to learn about the State's requirements.
2. Construction, renovation and/or demolition of buildings and roadways must be performed in conformance with State regulations pertaining to "Particulate Matter from Materials Handling and Construction" requiring that during any construction and/or demolition work, reasonable precaution must be taken to prevent particulate matter, such as fugitive dust, from becoming airborne.
3. During the duration of the project, soil excavation/grading/site work will be performed; there is a potential for encountering soil contamination. If soil contamination is present, a permit for soil remediation is required from MDE. Please contact the New Source Permits Division at (410) 537-3230 to learn about the State's requirements.
4. If the proposed project involves demolition – Any above ground or underground petroleum storage tanks that may be on site must have contents and tanks along with any contamination removed. Please contact the Oil Control Program at (410) 537-3442 for additional information.
5. Any solid waste including construction, demolition and land clearing debris, generated from the subject project, must be properly disposed of at a permitted solid waste acceptance facility, or recycled if possible. Contact the Solid Waste Program at (410) 537-3315 for additional information regarding solid waste activities and contact the Waste Diversion and Utilization Program at (410) 537-3314 for additional information regarding recycling activities.
6. The Waste Diversion and Utilization Program should be contacted directly at (410) 537-3314 by those facilities which generate or propose to generate or handle hazardous wastes to ensure these activities are being conducted in compliance with applicable State and federal laws and regulations. The Program should also be contacted prior to construction activities to ensure that the treatment, storage or disposal of hazardous wastes and low-level radioactive wastes at the facility will be conducted in compliance with applicable State and federal laws and regulations.
7. The proposed project may involve rehabilitation, redevelopment, revitalization, or property acquisition of commercial, industrial property. For specific information about these programs and eligibility, please contact the Land Restoration Program at (410) 537-3437.

**Any statement of consideration given to the comments should be submitted to the approving authority, with a copy to the State Clearinghouse.** The State Application Identifier Number must be placed on any correspondence pertaining to this project. The State Clearinghouse must be kept informed if the approving authority cannot accommodate the recommendation.

Please remember, you must comply with all applicable state and local laws and regulations. If you need assistance or have questions, contact the State Clearinghouse staff person noted above at 410-767-4490 or through e-mail at [myra.barnes@maryland.gov](mailto:myra.barnes@maryland.gov). **Also, please complete the attached form and return it to the State Clearinghouse as soon as the status of the project is known. Any substitutions of this form must include the State Application Identifier Number. This will ensure that our files are complete.**

Ms. Mary Ashburn Pearson, AICP

November 2, 2017

Page 3

State Application Identifier: **MD20170925-0837**

Thank you for your cooperation with the MIRC process.

Sincerely,



Myra Barnes, Lead Clearinghouse Coordinator

MB:MB

Enclosure(s)

cc: Greg Ossont - MTGM  
Greg Golden - DNR  
Amanda Degen - MDE

Tina Quinichette - MDOT  
Bihui Xu - MDPI-T

Joseph Griffiths - MDPL  
Beth Cole - MHT

*17-0837\_CRR.CLS.docx*



Larry Hogan, Governor  
Boyd Rutherford, Lt. Governor

Robert S. McCord, Acting Secretary

### PROJECT STATUS FORM

Please complete this form and return it to the State Clearinghouse upon receipt of notification that the project has been approved or not approved by the approving authority.

**TO:** Maryland State Clearinghouse  
Maryland Department of Planning  
301 West Preston Street  
Room 1104  
Baltimore, MD 21201-2305

**DATE:** \_\_\_\_\_  
(Please fill in the date form completed)

**FROM:** \_\_\_\_\_  
(Name of person completing this form.)

**PHONE:** \_\_\_\_\_  
(Area Code & Phone number)

**RE:** State Application Identifier: MD20170925-0837  
Project Description: Draft Environmental Assessment for Land Acquisition and Obstruction Removal  
Project at the Montgomery County Airpark in Gaithersburg, Maryland (Prior: MD20160107-0009)

<b>PROJECT APPROVAL</b>			
This project/plan was:	<input type="checkbox"/> Approved	<input type="checkbox"/> Approved with Modification	<input type="checkbox"/> Disapproved
Name of Approving Authority:	Date Approved:		
_____	_____		

<b>FUNDING APPROVAL</b>			
<i>The funding (if applicable) has been approved for the period of:</i>			
_____, 201__ to _____, 201__ as follows:			
Federal \$:	Local \$:	State \$:	Other \$:
_____	_____	_____	_____

<b>OTHER</b>	
<input type="checkbox"/> Further comment or explanation is attached	

# **APPENDIX G**

U.S. Fish and Wildlife Service Coordination



## Mary Ashburn Pearson

---

**From:** CBFO Project Review, FW5 <cbfoprojectreview@fws.gov>  
**Sent:** Tuesday, September 27, 2016 11:33 AM  
**To:** Mary Ashburn Pearson  
**Subject:** "cbfoprojectreview@fws.gov" return receipt Re: Online Project Review Certification Letter

**This message is a return receipt from the "[cbfoprojectreview@fws.gov](mailto:cbfoprojectreview@fws.gov)" mailbox. The U.S. Fish and Wildlife Service has received your project. Thank you.**



**United States Department of the Interior**

U.S. Fish & Wildlife Service  
Chesapeake Bay Field Office  
177 Admiral Cochrane Drive  
Annapolis, MD 21401  
410/573 4575

**Online Certification Letter**Today's date: Project: 

Dear Applicant for online certification:

Thank you for using the U.S. Fish and Wildlife Service (Service) Chesapeake Bay Field Office online project review process. By printing this letter in conjunction with your project review package, you are certifying that you have completed the online project review process for the referenced project in accordance with all instructions provided, using the best available information to reach your conclusions. This letter, and the enclosed project review package, completes the review of your project in accordance with the Endangered Species Act of 1973 (16 U.S.C. 1531-1544, 87 Stat. 884), as amended (ESA). This letter also provides information for your project review under the National Environmental Policy Act of 1969 (P.L. 91-190, 42 U.S.C. 4321-4347, 83 Stat. 852), as amended. A copy of this letter and the project review package must be submitted to this office for this certification to be valid. This letter and the project review package will be maintained in our records.

Based on this information and in accordance with section 7 of the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.), we certify that except for occasional transient individuals, no federally proposed or listed endangered or threatened species are known to exist within the project area. Therefore, no Biological Assessment or further section 7 consultation with the U.S. Fish and Wildlife Service is required. Should project plans change, or if additional information on the distribution of listed or proposed species becomes available, this determination may be reconsidered.

This response relates only to federally protected threatened or endangered species under our jurisdiction. For additional information on threatened or endangered species in Maryland, you should contact the Maryland Wildlife and Heritage Division at (410) 260-8573. For information in Delaware you should contact the Delaware Division of Fish and Wildlife, Wildlife Species Conservation and Research Program at (302) 735-8658. For information in the District of Columbia, you should contact the National Park Service at (202) 339-8309.

The U.S. Fish and Wildlife Service also works with other Federal agencies and states to minimize loss of wetlands, reduce impacts to fish and migratory birds, including bald eagles, and restore habitat for wildlife. Information on these conservation issues and how development projects can avoid affecting these resources can be found on our website ([www.fws.gov/chesapeakebay](http://www.fws.gov/chesapeakebay))

We appreciate the opportunity to provide information relative to fish and wildlife issues, and thank you for your interest in these resources. If you have any questions or need further assistance, please contact Chesapeake Bay Field Office Threatened and Endangered Species program at (410) 573-4527.

Sincerely,

Genevieve LaRouche  
Field Supervisor



# United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Chesapeake Bay Ecological Services Field Office  
177 ADMIRAL COCHRANE DRIVE  
ANNAPOLIS, MD 21401

PHONE: (410)573-4599 FAX: (410)266-9127

URL: [www.fws.gov/chesapeakebay/](http://www.fws.gov/chesapeakebay/);

[www.fws.gov/chesapeakebay/endsppweb/ProjectReview/Index.html](http://www.fws.gov/chesapeakebay/endsppweb/ProjectReview/Index.html)

Consultation Code: 05E2CB00-2016-SLI-2051

September 27, 2016

Event Code: 05E2CB00-2016-E-02033

Project Name: GAI Supplemental EA

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

## To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. This species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan ([http://www.fws.gov/windenergy/eagle\\_guidance.html](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment



United States Department of Interior  
Fish and Wildlife Service

Project name: GAI Supplemental EA

## Official Species List

### Provided by:

Chesapeake Bay Ecological Services Field Office

177 ADMIRAL COCHRANE DRIVE

ANNAPOLIS, MD 21401

(410) 573-4599

<http://www.fws.gov/chesapeakebay/>

<http://www.fws.gov/chesapeakebay/endsppweb/ProjectReview/Index.html>

**Consultation Code:** 05E2CB00-2016-SLI-2051

**Event Code:** 05E2CB00-2016-E-02033

**Project Type:** DEVELOPMENT

**Project Name:** GAI Supplemental EA

**Project Description:** Purchase and raze two buildings and parking lots

**Please Note:** The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.



United States Department of Interior  
Fish and Wildlife Service

Project name: GAI Supplemental EA

### Project Location Map:



**Project Coordinates:** MULTIPOLYGON (((-77.15942859649658 39.16648682406109, -77.15658009052277 39.16493545943983, -77.1572345495224 39.164132729192296, -77.1598470211029 39.16538465164309, -77.15998649597168 39.16538881081673, -77.15942859649658 39.16648682406109)))

**Project Counties:** Montgomery, MD



United States Department of Interior  
Fish and Wildlife Service

Project name: GAI Supplemental EA

## Endangered Species Act Species List

There are a total of 0 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

There are no listed species identified for the vicinity of your project.



United States Department of Interior  
Fish and Wildlife Service

Project name: GAI Supplemental EA

## **Critical habitats that lie within your project area**

There are no critical habitats within your project area.





United States Department of Interior  
Fish and Wildlife Service

Project name: GAI Supplemental EA

## **Appendix A: FWS National Wildlife Refuges and Fish Hatcheries**

There are no refuges or fish hatcheries within your project area.



United States Department of Interior  
Fish and Wildlife Service

Project name: GAI Supplemental EA

## Appendix B: NWI Wetlands

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities may affect local hydrology within, and outside of, your immediate project area). It may be helpful to refer to the USFWS National Wetland Inventory website. The designated FWS office can also assist you. Impacts to wetlands and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes. Project Proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate U.S. Army Corps of Engineers District.

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery and/or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

**Exclusions** - Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

**Precautions** - Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of



United States Department of Interior  
Fish and Wildlife Service

Project name: GAI Supplemental EA

this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

The following NWI Wetland types intersect your project area in one or more locations. To understand the NWI Classification Code, see <https://ecos.fws.gov/ipac/wetlands/decoder>. To view the National Wetlands Inventory on a map go to <http://www.fws.gov/wetlands/Data/Mapper.html>.

Wetland Types	NWI Classification Code
Freshwater Pond	PUBHx

# **APPENDIX H**

2006 Finding of No Significant Impact  
(FONSI)

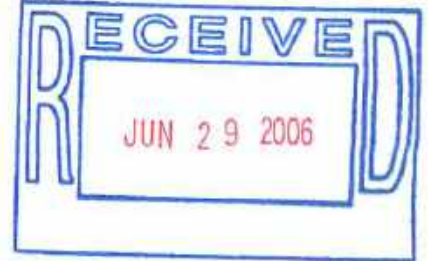




U. S. Department  
of Transportation

Federal Aviation  
Administration

WASHINGTON AIRPORTS DISTRICT OFFICE  
23723 Air Freight Land, Suite 210  
Dulles, Virginia 20166  
Telephone: 703/661-1354  
Fax: 703/661-1370



June 26, 2006

Mr. Marc Atz  
Executive Director, Montgomery County Revenue Authority  
101 Monroe Street, Suite 410  
Rockville, MD 20850

Re: Finding of No Significant Impact – Montgomery County Airpark

Dear Mr. Atz:

Enclosed is one copy of the Finding of No Significant Impact (FONSI), for the proposed improvement projects at Montgomery County Airpark for your information and files. We wish to thank you for your efforts in completing this action.

In accordance with FAA Order 5050.4B, *National Environmental Policy Act (NEPA) Implementing Instructions for Airport Actions*, you are required to publish a notice of availability of the FONSI in the local newspaper. We have included a sample public notice that you may use. We would suggest that the public notice be published two times. Please forward a proof of publication of the notice to this office for our files.

If you have any questions, please contact me at 703-661-1362.

Sincerely,

Jennifer Mendelsohn  
Environmental Protection Specialist

cc: Maria Stanco, FAA Environmental Team Lead  
Colleen Angstadt, Delta Airport Consultants, Inc.

# SAMPLE

## NOTICE OF FINDING OF NO SIGNIFICANT IMPACT

The Federal Aviation Administration has announced that a "Finding of No Significant Impact" (FONSI) has been approved based upon results of a Final Environmental Assessment prepared in June 2006. The proposed project is the Airport's Five Year Capital Improvement Program at Montgomery County Airpark, Gaithersburg, Maryland.

The following projects are addressed by the FONSI:

- Remove obstructions for Runway 14/32.
- Lower adjacent access road and parking lot.
- Acquire approximately 26 acres for Runway Protection Zone control.
- Install holding position signage and marking and install PAPI's.

The FONSI indicates that the proposed action is consistent with existing environmental policies and objectives as set forth in the National Environmental Policy Act of 1969 in that it will not significantly affect the quality of *the human environment*.

Copies of the FONSI are available for public inspection at the following locations:

Federal Aviation Administration  
Washington Airports District Office  
23723 Air Freight Lane, Suite 210  
Dulles, Virginia 20166

Montgomery County Revenue Authority  
101 Monroe Street, Suite 410  
Rockville, MD 20850

Local libraries where the Draft/Final EA was placed for public review

**U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION  
FINDING OF NO SIGNIFICANT IMPACT**

Montgomery County Airpark  
Gaithersburg, Montgomery County, Maryland

Airport's Five Year Capital Improvement Program

1. **Introduction.** This document is a Finding of No Significant Impact on the environment as a result of a development proposal by the Montgomery County Revenue Authority (MCRA) owner and operator of Montgomery County Airpark (GAI). MCRA's proposed actions are obstruction removal, lower access road and parking lot, install holding position signage and marking, install Precision Approach Path Indicators (PAPIs) and acquisition of approximately 26 acres of land for Runway Protection Zone (RPZ) control. The Federal Aviation Administration (FAA) must comply with the National Environmental Policy Act of 1969 (NEPA) before being able to take the federal action of further processing of an application for Federal assistance in funding various airport development and for approval of the Airport Layout Plan (ALP) that depicts the proposed airport development projects. Approval of the ALP is authorized by the Airport and Airway Improvement Act of 1982, as amended (Public Laws 97-248 and 100-223).

2. **Project Purpose and Need.** The purpose of the proposed improvements are to maintain the existing Airport Reference Code (ARC) B-II operational category and improve safety and efficiency, through compliance with FAA design standards at Montgomery County Airpark. The proposed land acquisition, obstruction removal and installation of PAPI's will enhance safety of aircraft operations by providing adequate RPZs to meet FAA safety and design standards. This project is part of the National Plan of Integrated Airport Systems (NPIAS), which is planned to provide public airport facilities conforming to minimum design standards.

Obstruction removal includes the grading of terrain, removal of existing trees and similar natural growth objects, as well as buildings within the protected airspace for Runway 14/32 and the elimination of obstructions to the Federal Aviation Regulation (FAR) Part 77, *Objects Affecting Navigable Airspace* surfaces. The adjacent access road and parking lot will be lowered to provide adequate vertical clearance to Part 77 surfaces to meet FAA design standards. Property interest acquisition is necessary to gain controlling interest in the Runway 14/32 primary surface and RPZs and aid in the removal of obstructions. Property interest includes acquiring the property and existing buildings, and if necessary, relocating businesses.

3. **Proposed Project.** The following is a listing of the various components of the proposed project:

- Remove obstructions for Runway 14/32.
- Lower adjacent access road and parking lot.
- Acquire approximately 26 acres for Runway Protection Zone control.
- Install holding position signage and marking and install PAPI's.

4. **Reasonable Alternatives Considered.** As described in Chapter 2 of the Final Environmental Assessment (EA), the alternative courses of action evaluated include: (1) No Action and (2) Proposed Project - obstruction removal, property interest acquisition, lowering access road and parking lot, installation of holding position signage and markings, and installation of PAPI's on Runway 14/32. Two additional alternatives were evaluated in the ALP Update completed in July 2002. Alternatives 3 and 4 were designed to bring the airfield to compliance with all FAA design standards and meet the County's present general aviation needs with opportunities to expand to meet future needs of the airpark. Alternatives 3 and 4 from the ALP Update included all projects from Alternative 2 in addition to expanding the apron and auto parking and the construction of both t-hangars and conventional hangars. Alternative 4 was the preferred operational alternative identified by the airport sponsor in the ALP Update. During completion of GAI's five-year Airport Capital Improvement Program it was determined that not all items identified in Alternative 4 could be implemented within a five-year period due to funding limitations.

5. **Assessment.** The potential environmental impacts and possible adverse effects were identified and evaluated in Chapter 4 of the Final EA prepared in June 2006. The Final EA examined the following environmental impact categories: Noise; Compatible Land Use; Social Impacts; Induced Socioeconomic Impacts; Air and Water Quality; U.S. Department of Transportation Act Section 4(f) Land; Historic, Architectural, Archaeological and Cultural Resources; Biotic Communities; Endangered and Threatened Species of Flora and Fauna; Wetlands; Floodplains; Coastal Zone Management; Coastal Barriers; Wild and Scenic Rivers; Farmland; Energy Supply and Natural Resources; Light Emissions; Solid Waste Impacts; Construction Impacts; Hazardous Materials and Cumulative Impacts.

Section A of the Final EA states that the aircraft operations at GAJ will remain the same with or without proposed improvements, therefore, there will be no increase in noise impacts. All residential and noise sensitive facilities are located outside the 65 DNL noise contour and will remain outside the 65 DNL noise contour for the proposed project.

Section B and C of the Final EA discloses impacts to nine commercial properties (entire parcels or partial), including the relocation of ten businesses to eliminate obstructions to the Runway 32 approach, primary and transitional surfaces and gain control of the RPZ. The relocated businesses include Property Map Reference Numbers 4, 5, 6, 7 and six units under Number 8 (See Exhibit 4-3 of the Final EA). Portions of three properties (Property Map Reference Numbers 3, 9 and 12) will also be acquired. All acquisitions and relocations would be accomplished in accordance with the Uniform Relocation Assistance Real Property Acquisition Policies Act of 1970. The Maryland-National Capital Park and Planning Commission (M-NCPPC) owns approximately 0.98 acres off the Runway 32 end (Property Map Reference Number 2). The MCRA and M-NCPPC will enter into a Memorandum of Agreement (MOA) to ensure compatible land use for the 0.98 acres which M-NCPPC will continue to own.

Property interest acquisition is also proposed off the Runway 14 end to gain control over the Runway Safety Area, Runway Object Free Area and RPZ. This acquisition would include the partial acquisition of two unimproved properties, Property Map Reference Numbers 10B and 11 (See Exhibit 4-4 of the Final EA). A private landowner owns approximately 3.25 acres (Property Map Reference Number 11) and Montgomery County owns approximately 1.5 acres, which has been designated for park use by M-NCPPC (Property Map Reference Number 10B). Approximately 9.41 acres within the Runway 14 RPZ has also been designated for use by M-NCPPC (Property Map Reference Number 10A). The MCRA and M-NCPPC will enter into a MOA to ensure compatible land use for the 9.41 acres, which M-NCPPC will continue to own.

Section G of the Final EA describes the proposed property interest acquisition to protect the RPZs for both runways. Potential impacts to M-NCPPC property, a 4(f) resource, were evaluated and it was determined that no significant impacts would occur. Approximately 1.5 acres proposed for interest acquisition, located off the Runway 14 end, had been designated for use by M-NCPPC. This property is adjacent to the Lois Y. Green Conservation Park. To complete the transfer of the 1.5 acres, the MCRA will replace the 1.5 acres with land of equal or greater recreational value at the ratio of 2:1. Obstruction (tree) removal is proposed within the threshold siting surface, primary surface, runway object free area (ROFA), Part 77 approach surfaces, and 7:1 transitional surfaces for both Runways 14 and 32. The MCRA and M-NCPPC will enter into a MOA to ensure compatible land use for the 0.98 and 9.41 acres, which M-NCPPC will continue to own. Obstruction (tree) removal to achieve compliance with Part 77 is exempt from the Forest Conservation Act per Section 5-1602(b)(11). However, the M-NCPPC recommends replanting of vegetation appropriate to mitigate for removal of trees.



GAI is located in Montgomery County, an area designated as non-attainment area for ozone and particulate matter as described in Section E of the Final EA. The projected emissions from the proposed project were analyzed and found to be below *de minimis* levels specified in 40 CFR Part 91.153 pursuant to Section 176(c) of the Clean Air Act Amendments of 1990. These emissions are summarized in the table on page 4-23 of the Final EA and are clearly below the *de minimis* levels specified in the federal regulation and are not regionally significant. Therefore, based on this information, the FAA has determined that the Proposed Project is presumed to conform to the State Implementation Plan for the state of Maryland.

As described in Section K of the Final EA the proposed project will impact approximately 0.33 acres of wetlands and would include tree removal but no grubbing or grading. Mitigation will include a 1:1 replacement for impacted wetlands to comply with Maryland Department of Environment (MDE) regulations. A Joint Permit Application has been filed with the MDE and U.S. Army Corps of Engineers for approval.

- 6. Mitigation Measures.** The FAA will require that the Montgomery County Revenue Authority implement the following conservation measures, if they decide to pursue the proposed project:
1. All acquisitions and relocations would be accomplished in accordance with the Uniform Relocation Assistance Real Property Acquisition Policies Act of 1970.
  2. The MCRA and M-NCPPC will enter into a Memorandum of Agreement to ensure compatible land use of the approximately .98 acres off the Runway 32 end and the approximately 9.41 acres off Runway 14 end.
  3. Approximately 1.5 acres proposed for interest acquisition, located off the Runway 14 end, has been designated for use by M-NCPPC. To complete the transfer of the 1.5 acres, the MCRA will replace the 1.5 acres with land of equal or greater recreational value at the ratio of 2:1.
  4. Mitigation for tree removal is required under Montgomery County's Forest Conservation Law. However, obstruction (tree) removal to achieve compliance with Federal Aviation Regulation Part 77, *Objects Affecting Navigable Airspace* are exempt from the Forest Conservation Act per Section 5-1602(b)(11). Due to this exemption, federal funding for tree removal mitigation may be limited.
  5. Approximately 0.33 acres of wetlands would require tree removal. A Joint Permit Application has been filed with the MDE and U.S. Army Corps of Engineers for review and approval. A letter of intent, dated May 16, 2006 was received by MDE and is contained in Appendix H of the Final EA.
  6. MCRA shall prepare an erosion and sedimentation control plan to meet Maryland's Erosion and Sediment Control Guidelines for State and Federal Projects, pursuant to the Environmental Article, Title 4, Subtitle 1, Annotated Code of Maryland and COMAR 26.17.01.
  7. The implementation of Best Management Practices will minimize construction impacts associated with the proposed project.

The EA has been reviewed by the FAA and found to be adequate for the purpose of the proposed Federal action. The FAA has determined that the EA for the proposed project adequately describes the potential impacts of the proposed actions. No new issues surfaced as a result of the public participation process.

7. **Public Participation.** Efforts were made to encourage public participation through the public meeting process as is documented in the Final EA (Appendix J). The Montgomery County Revenue Authority, as owner and operator of GAI held three public meetings. These meetings were held on August 7, 2004, March 23, 2005 and July 20, 2005. Notices announcing these public meetings were published in *The Gazette*, the local newspaper in Montgomery and Frederick Counties, Maryland. The sign-in sheets, project summaries and comments received are included in the EA (Appendix J).
8. **Inter-Agency Coordination.** In accordance with 49 USC 47101(h), FAA has determined that no further coordination with the U.S. Department of Interior or the U.S. Environmental Protection Agency is necessary because the proposed project does not involve construction of a new airport, new runway or major runway extension that has a significant impact on natural resources including fish and wildlife; natural, scenic, and recreational assets; water and air quality; or another factor affecting the environment.
9. **Reasons for the Determination that the Proposed Project will have No Significant Impacts.** The attached Final EA examines each of the various environmental impact categories. The obstruction removal, installation of holding position signage and marking, installation of Precision Approach Path Indicators (PAPIs) and acquisition of approximately 26 acres of land for Runway Protection Zone (RPZ) control would not exceed the threshold of significance as defined in FAA Order 1050.1E. Based on the information contained in the Final EA, the FAA has determined the proposed project (Alternative 2), is most feasible and prudent alternative. FAA has decided to implement the proposed project as described in the attached Final EA.
10. **Finding of No Significant Impact**

I have carefully and thoroughly considered the facts contained in the attached EA. Based on that information I find that the proposed Federal action is consistent with existing national environmental policies and objectives as set forth in section 101(a) of the National Environmental Policy Act of 1969 (NEPA). I also find the proposed Federal Action, with the required mitigation referenced above will not significantly affect the quality of the human environment or otherwise include any condition requiring consultation pursuant to section 102 (2)(C) of NEPA. As a result, FAA will not prepare an EIS for this action.

APPROVED:



Terry J. Page, Manager  
Washington Airports District Office

6/26/06

Date

DISAPPROVED:

\_\_\_\_\_  
Terry J. Page, Manager  
Washington Airports District Office

\_\_\_\_\_  
Date