



1985 Historical Aerial





1985 Historical Aerial





1995 Historical Aerial





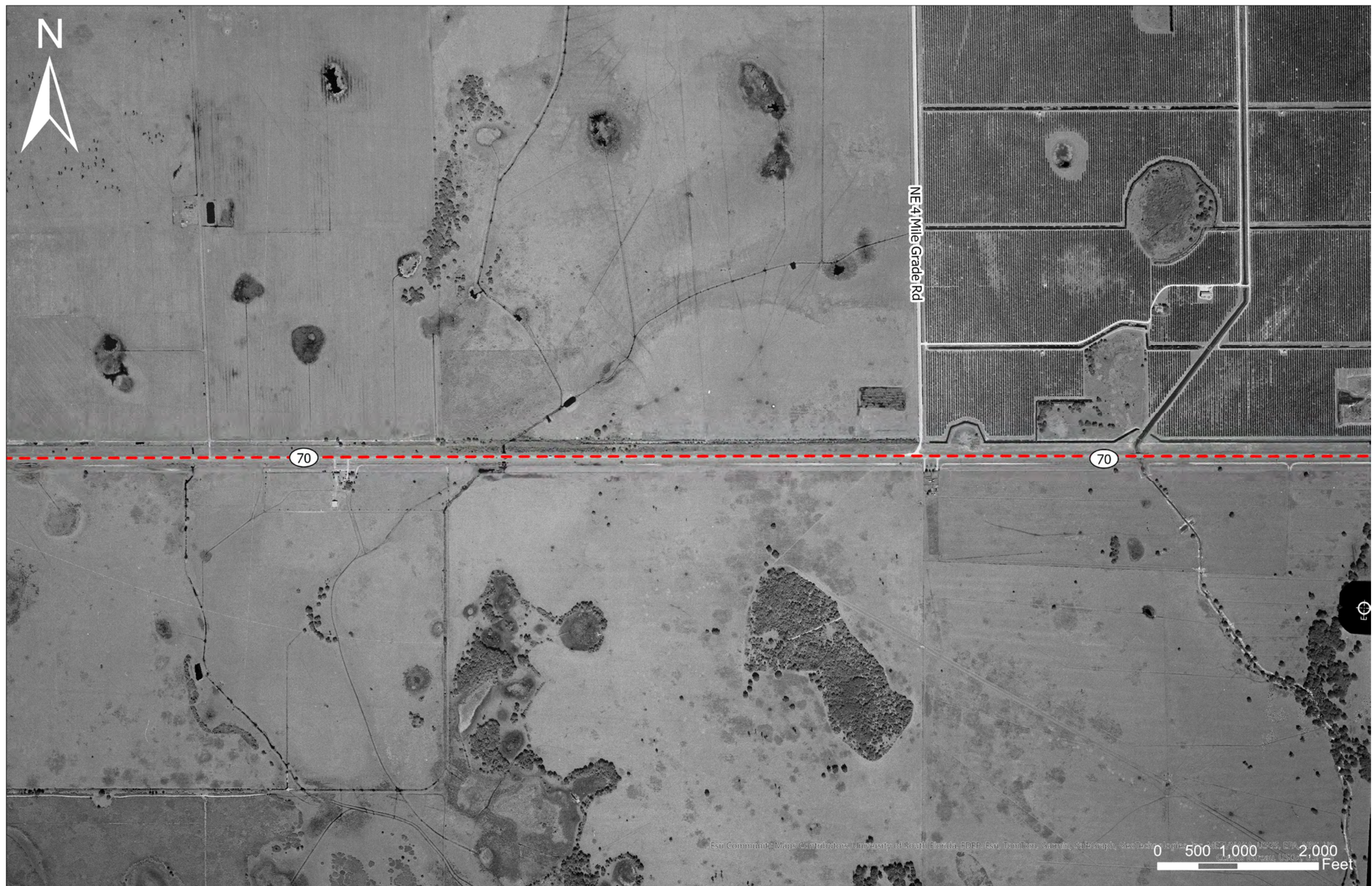
1995 Historical Aerial





1995 Historical Aerial





1995 Historical Aerial





1995 Historical Aerial





1995 Historical Aerial





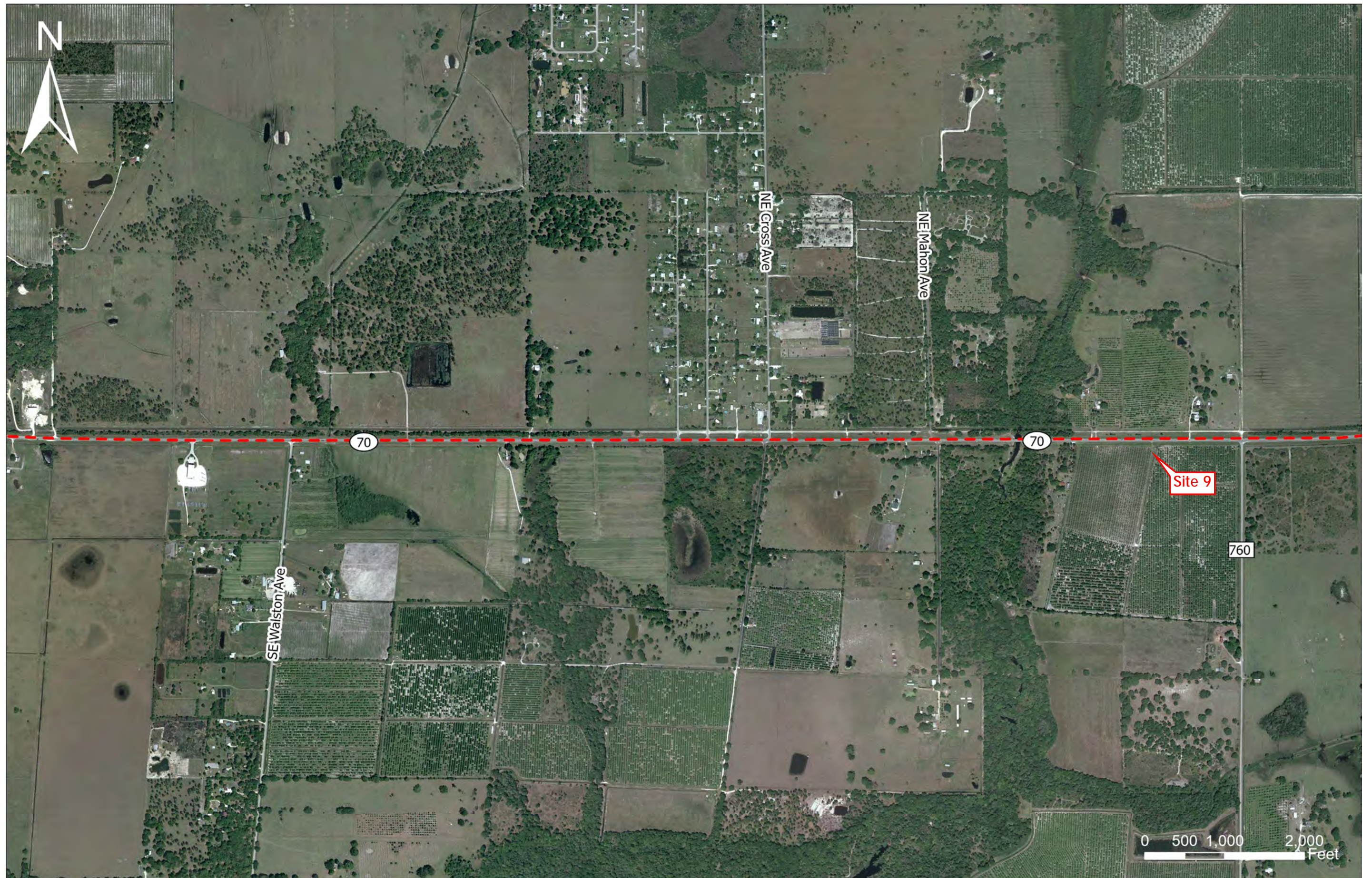
1995 Historical Aerial





2004 Historical Aerial





2004 Historical Aerial





2004 Historical Aerial





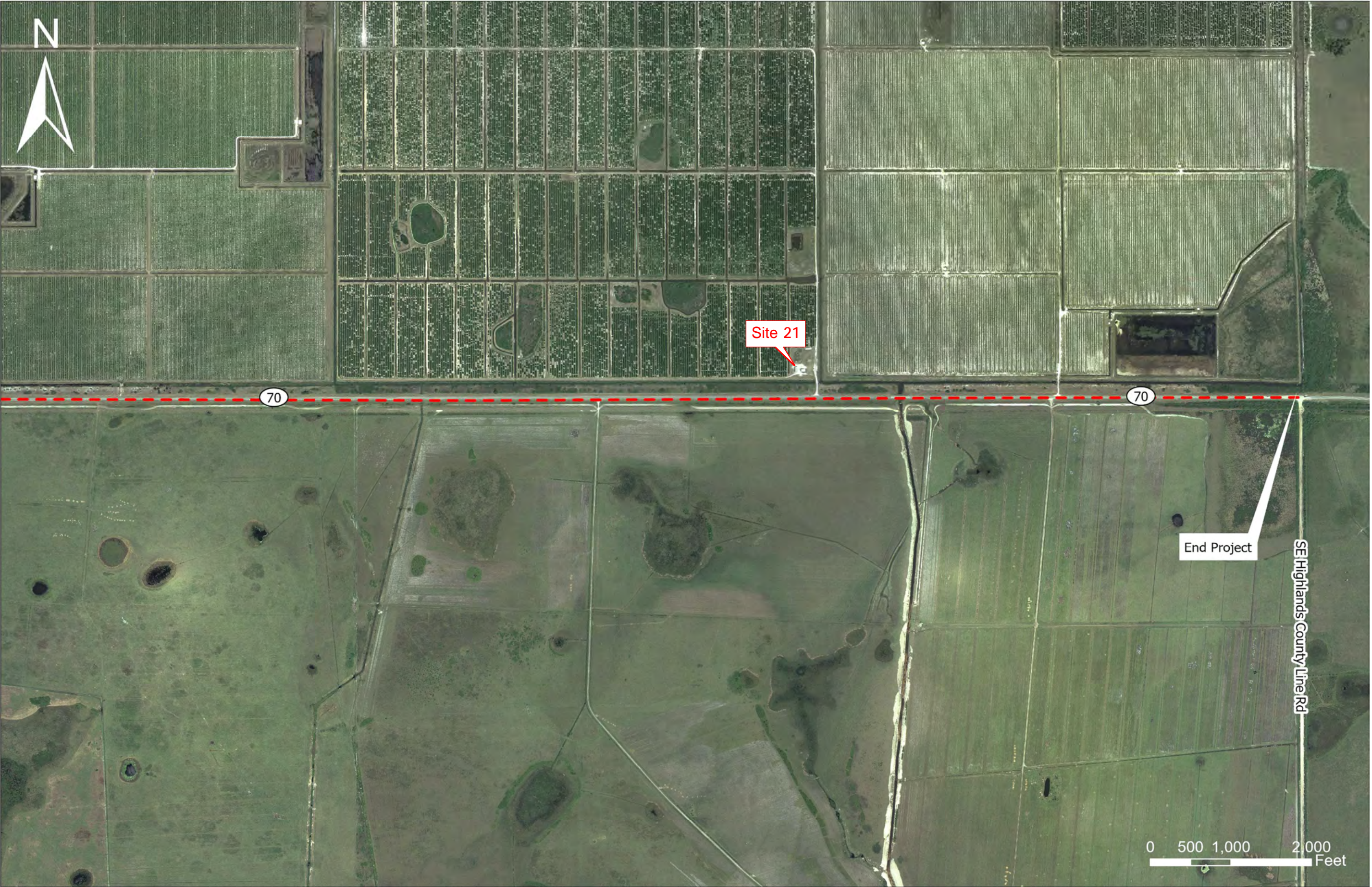
2004 Historical Aerial





2004 Historical Aerial





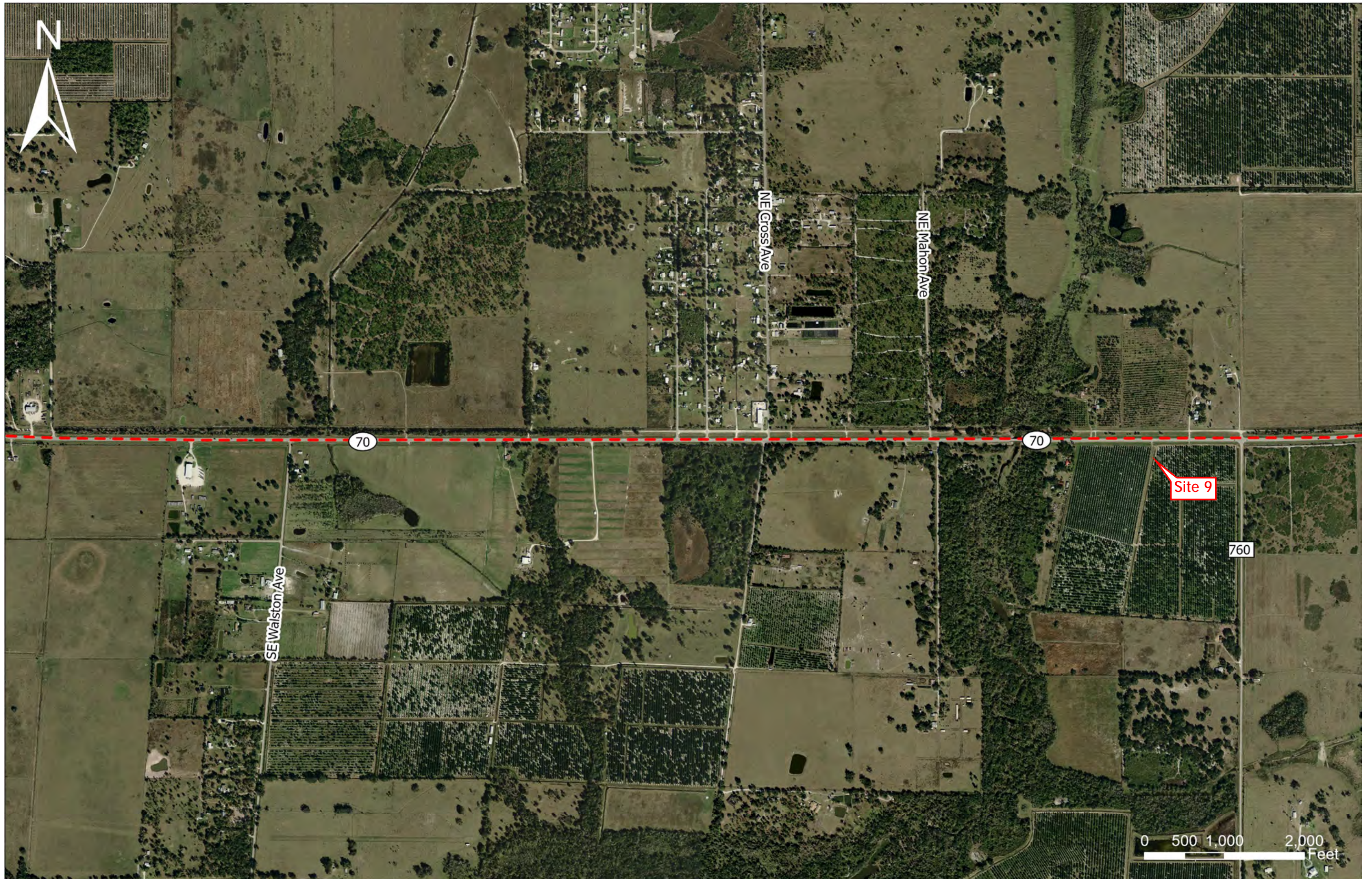
2004 Historical Aerial





2009 Historical Aerial





2009 Historical Aerial





2009 Historical Aerial





2009 Historical Aerial





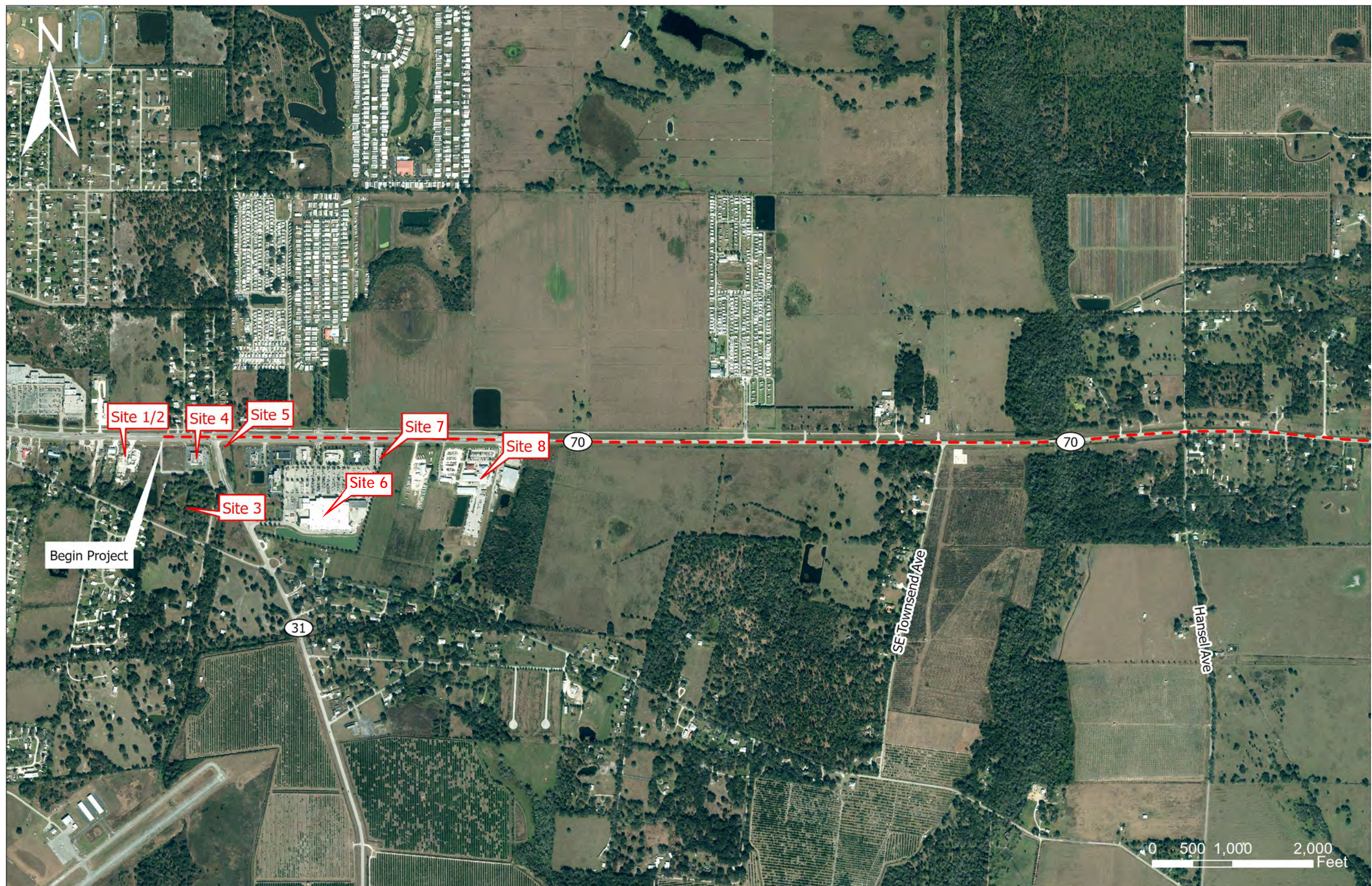
2009 Historical Aerial





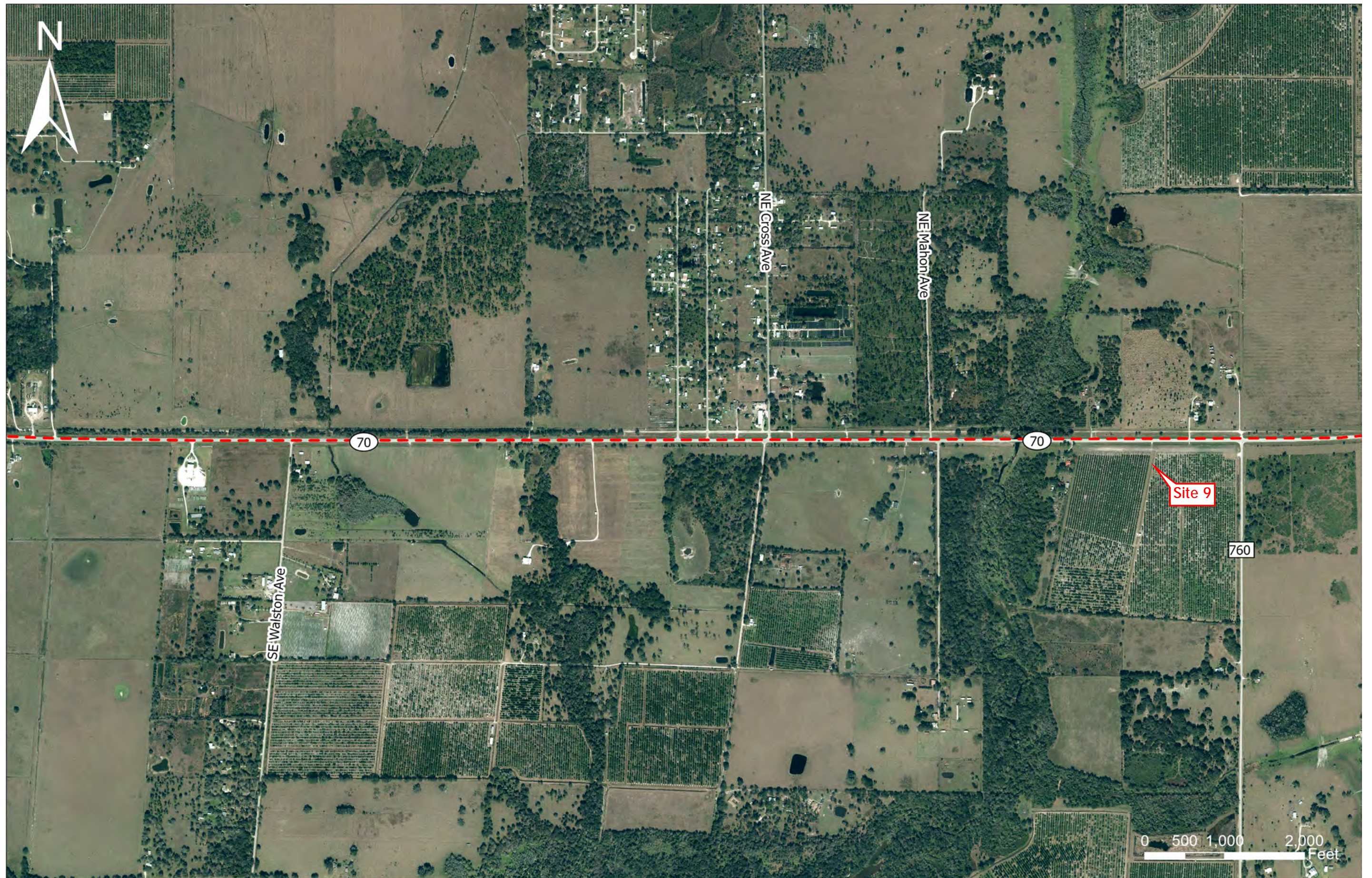
2009 Historical Aerial





2014 Historical Aerial





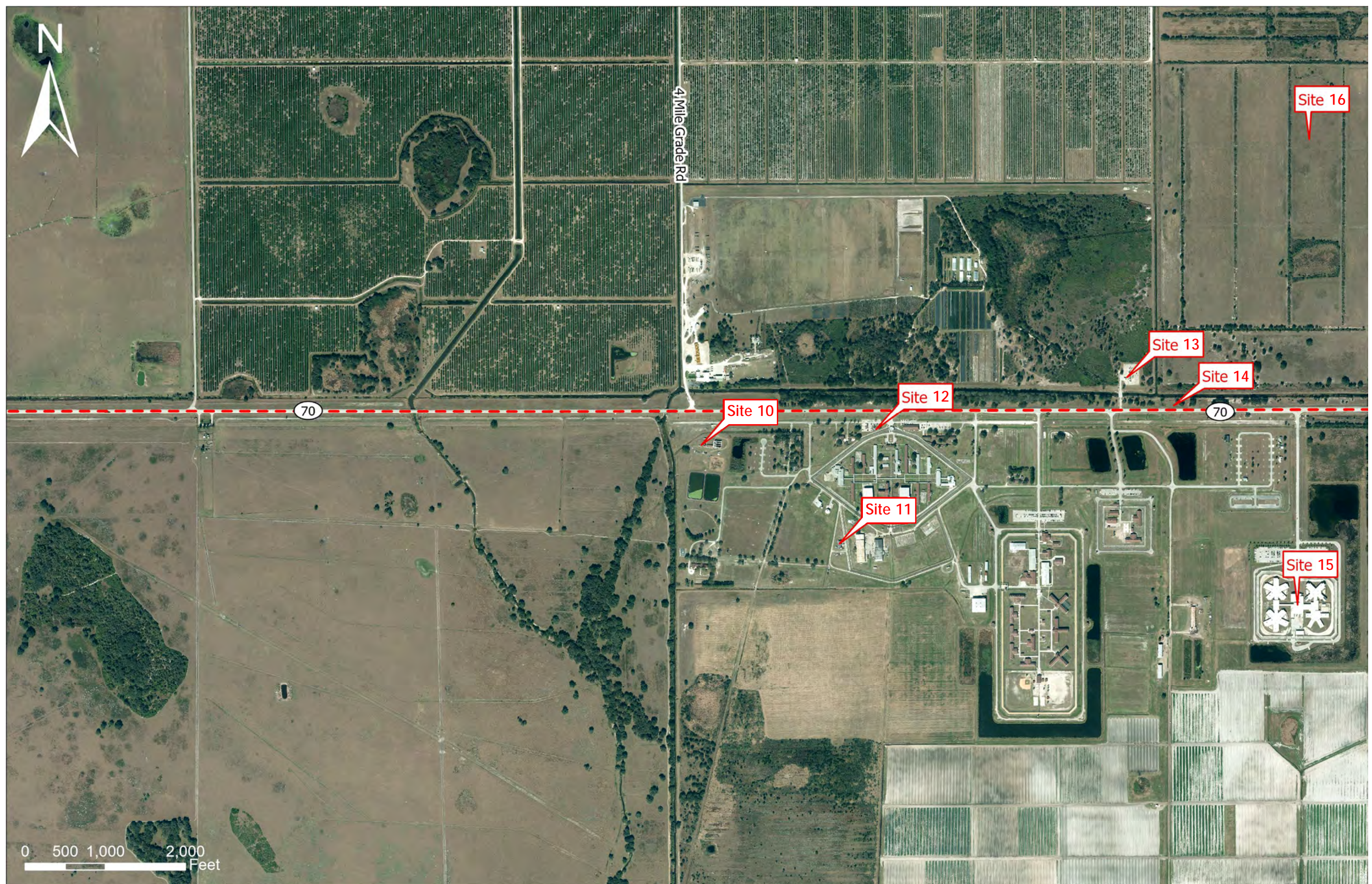
2014 Historical Aerial





2014 Historical Aerial





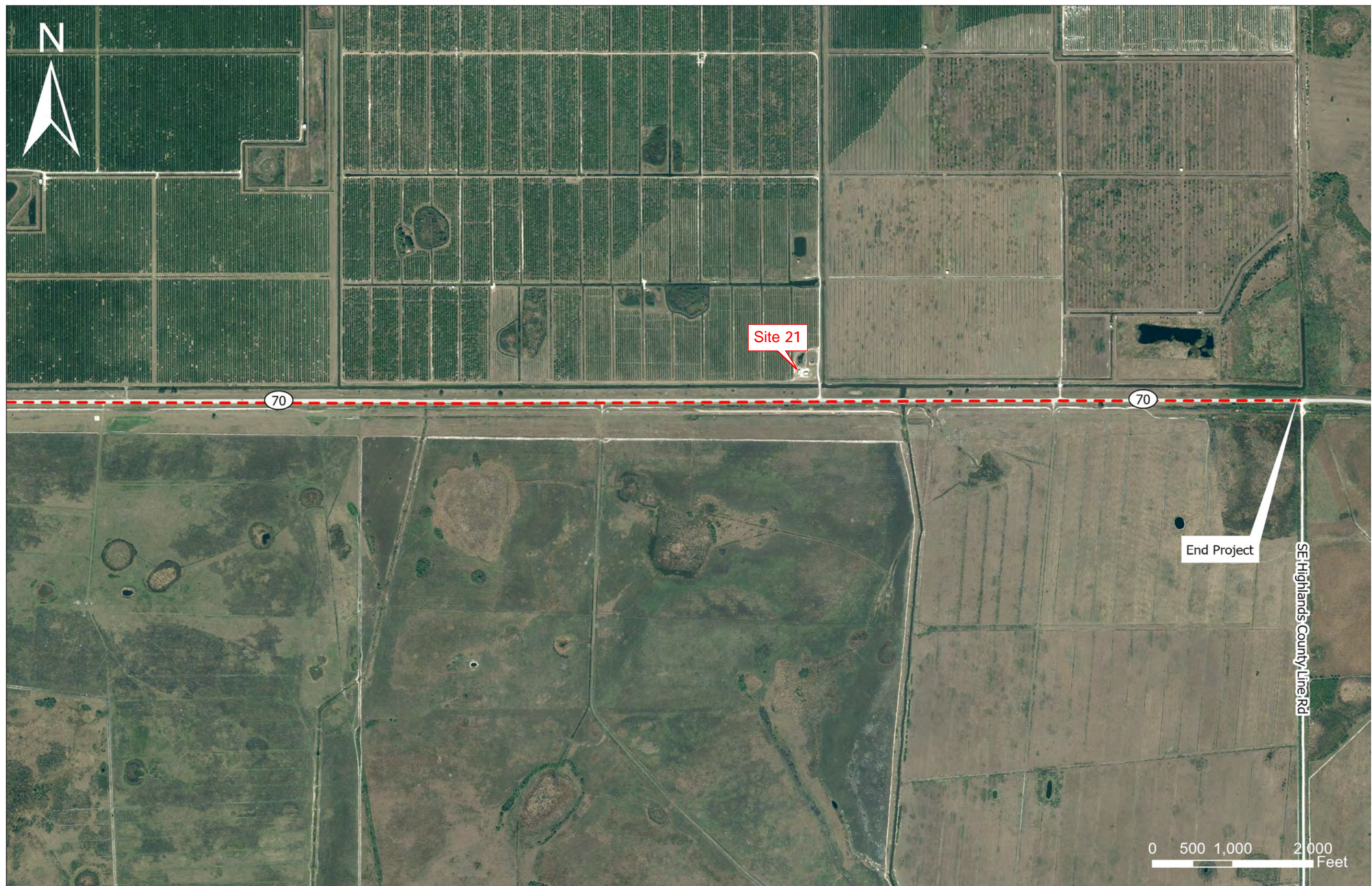
2014 Historical Aerial





2014 Historical Aerial





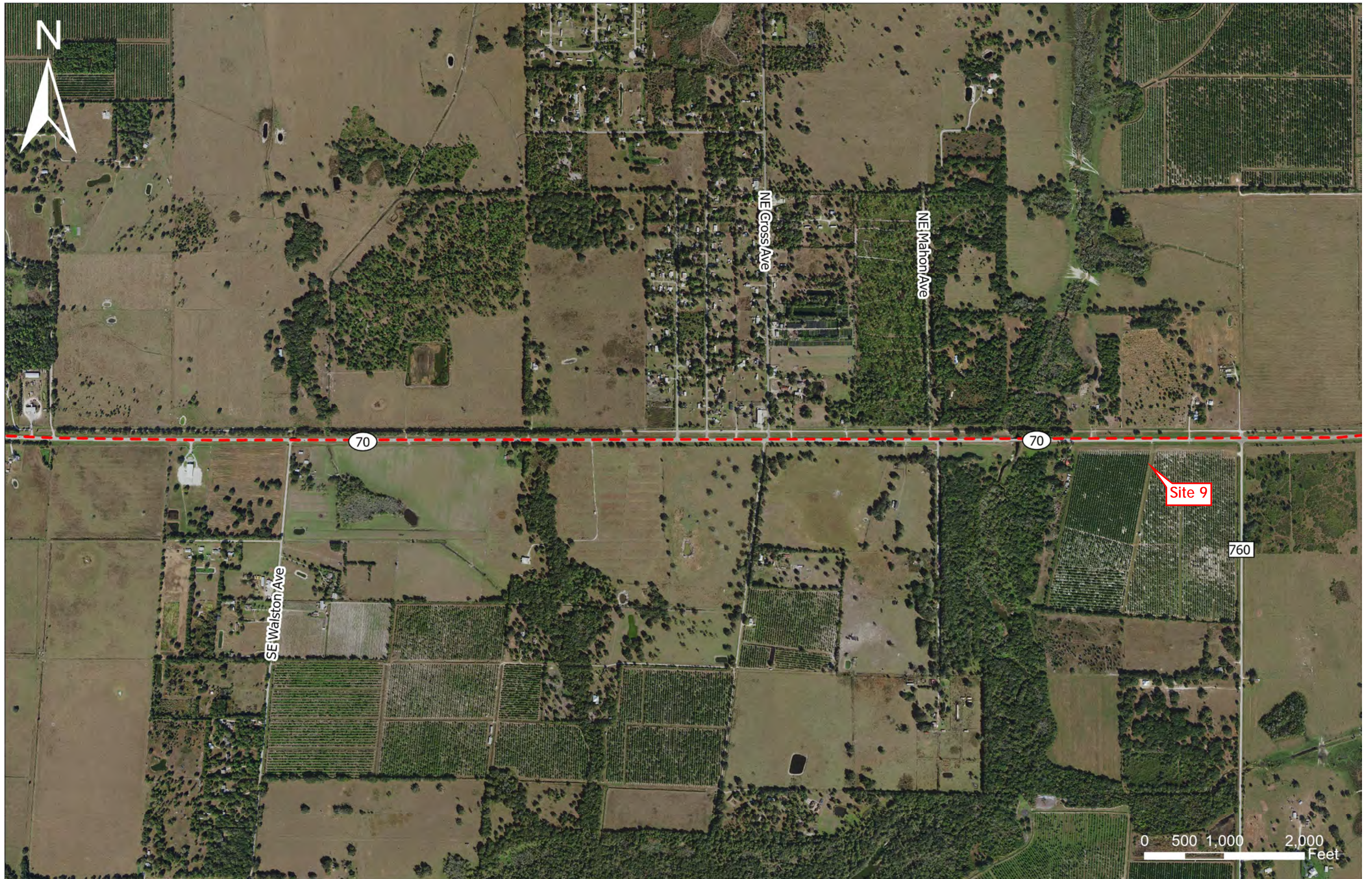
2014 Historical Aerial





2017 Historical Aerial





2017 Historical Aerial





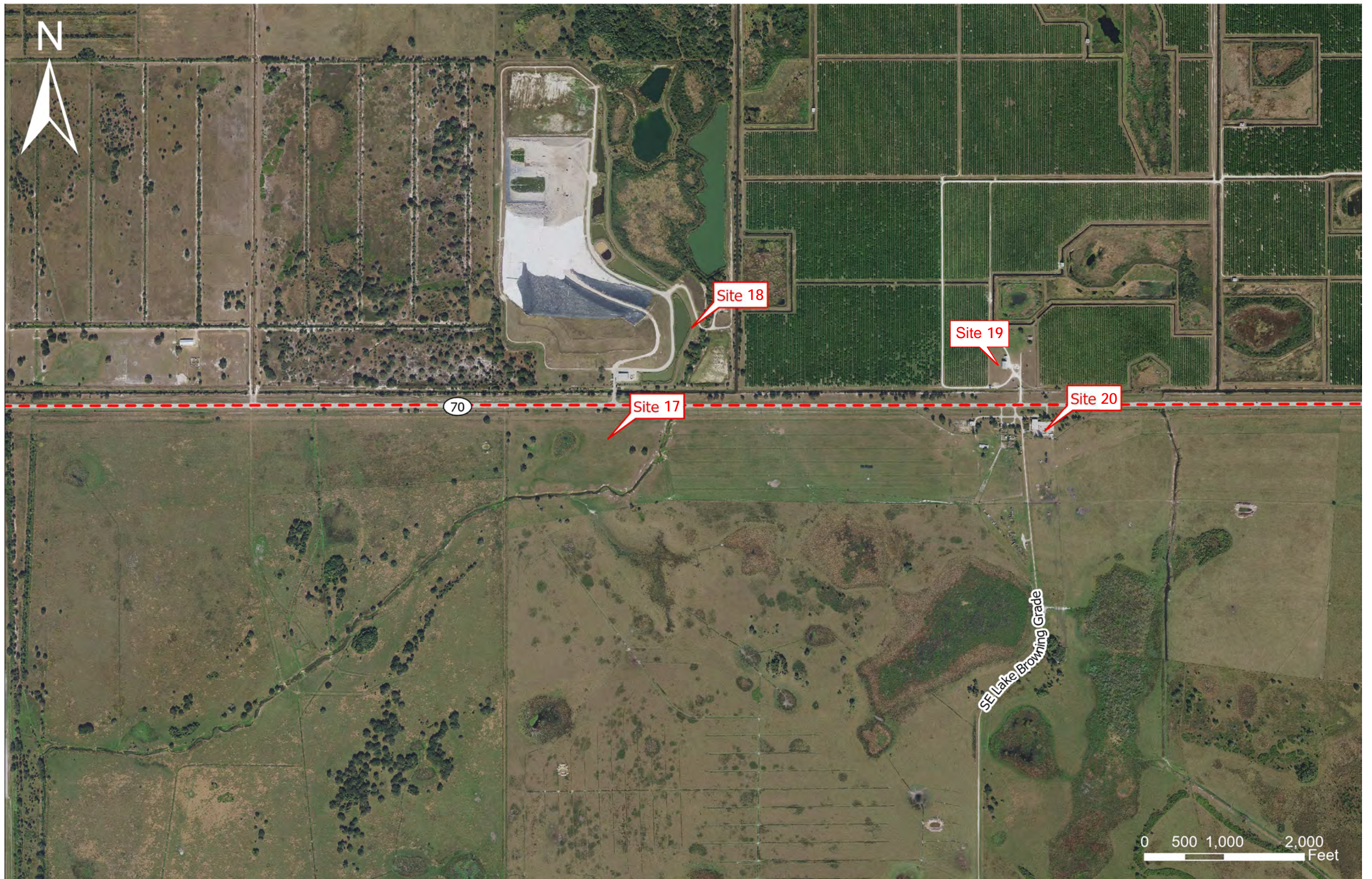
2017 Historical Aerial





2017 Historical Aerial





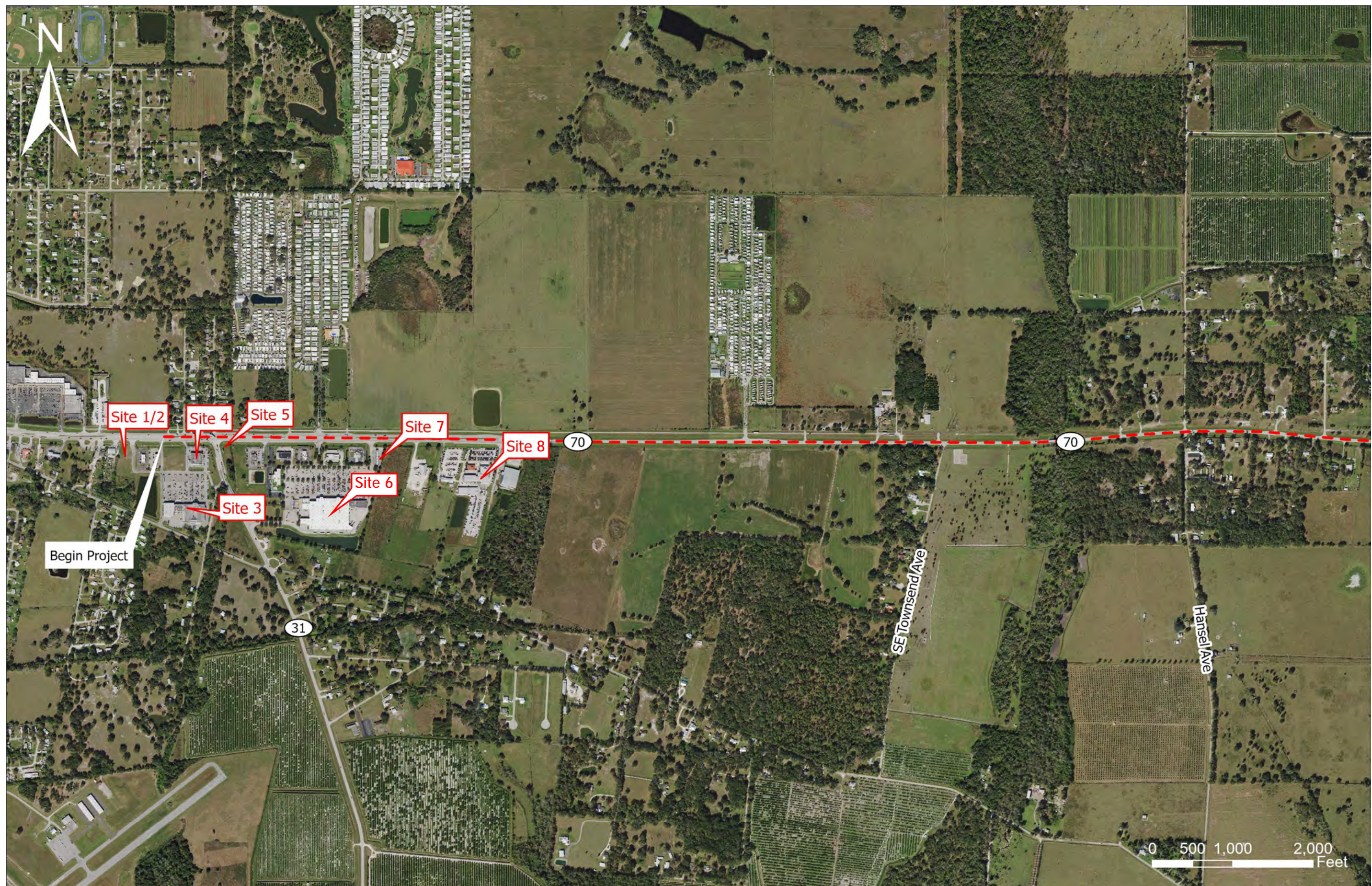
2017 Historical Aerial





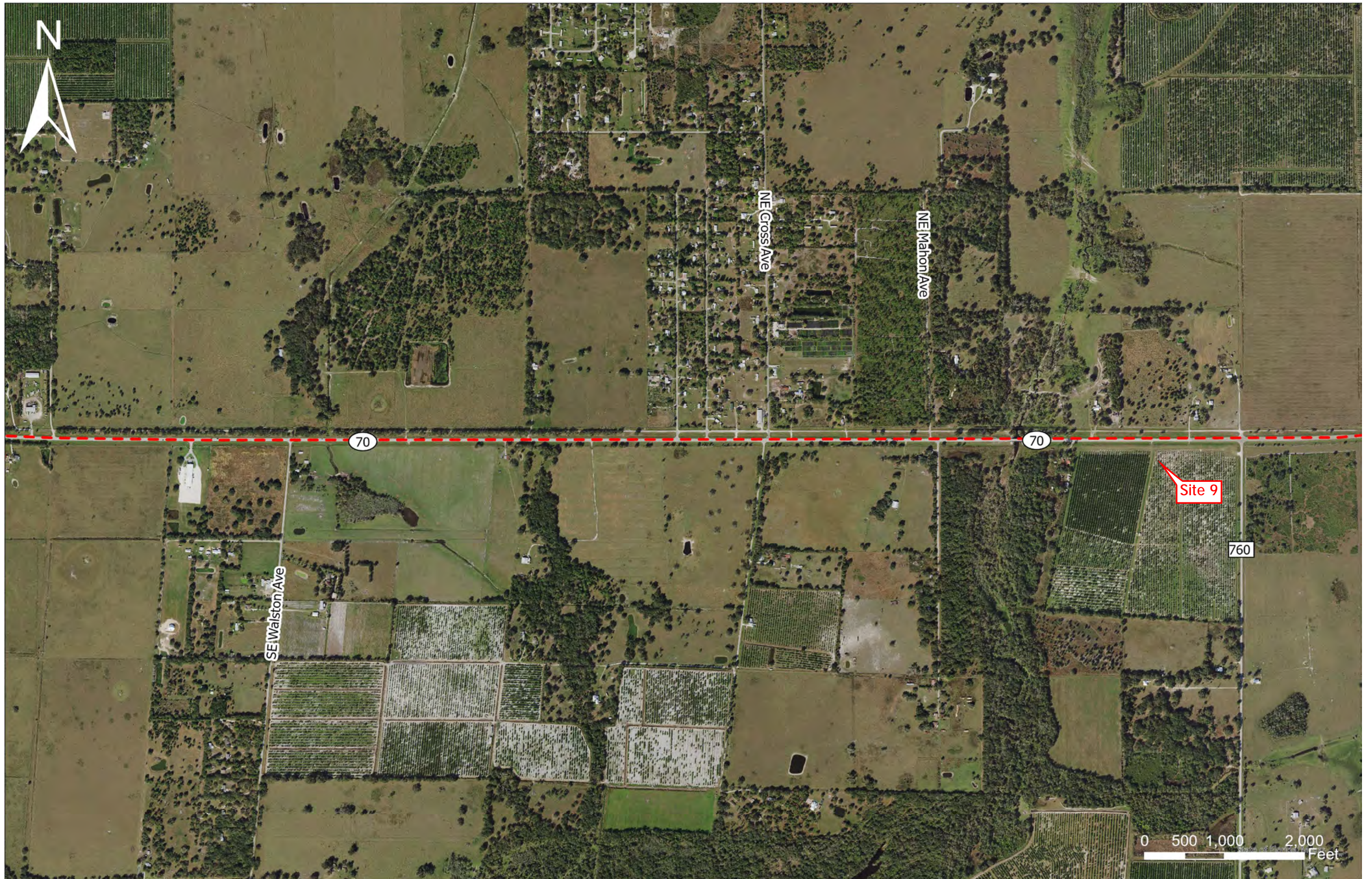
2017 Historical Aerial





2020 Historical Aerial





2020 Historical Aerial





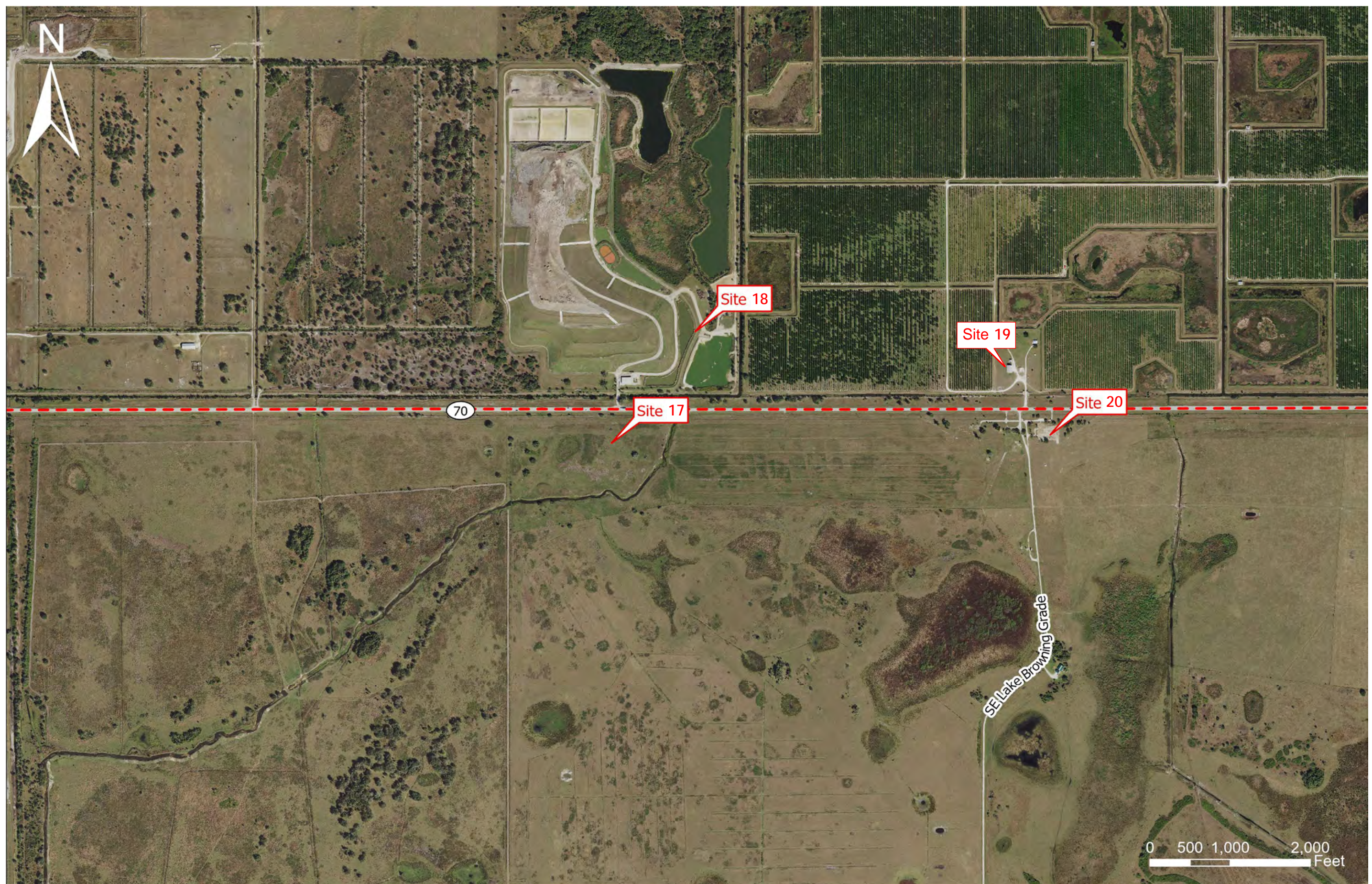
2020 Historical Aerial





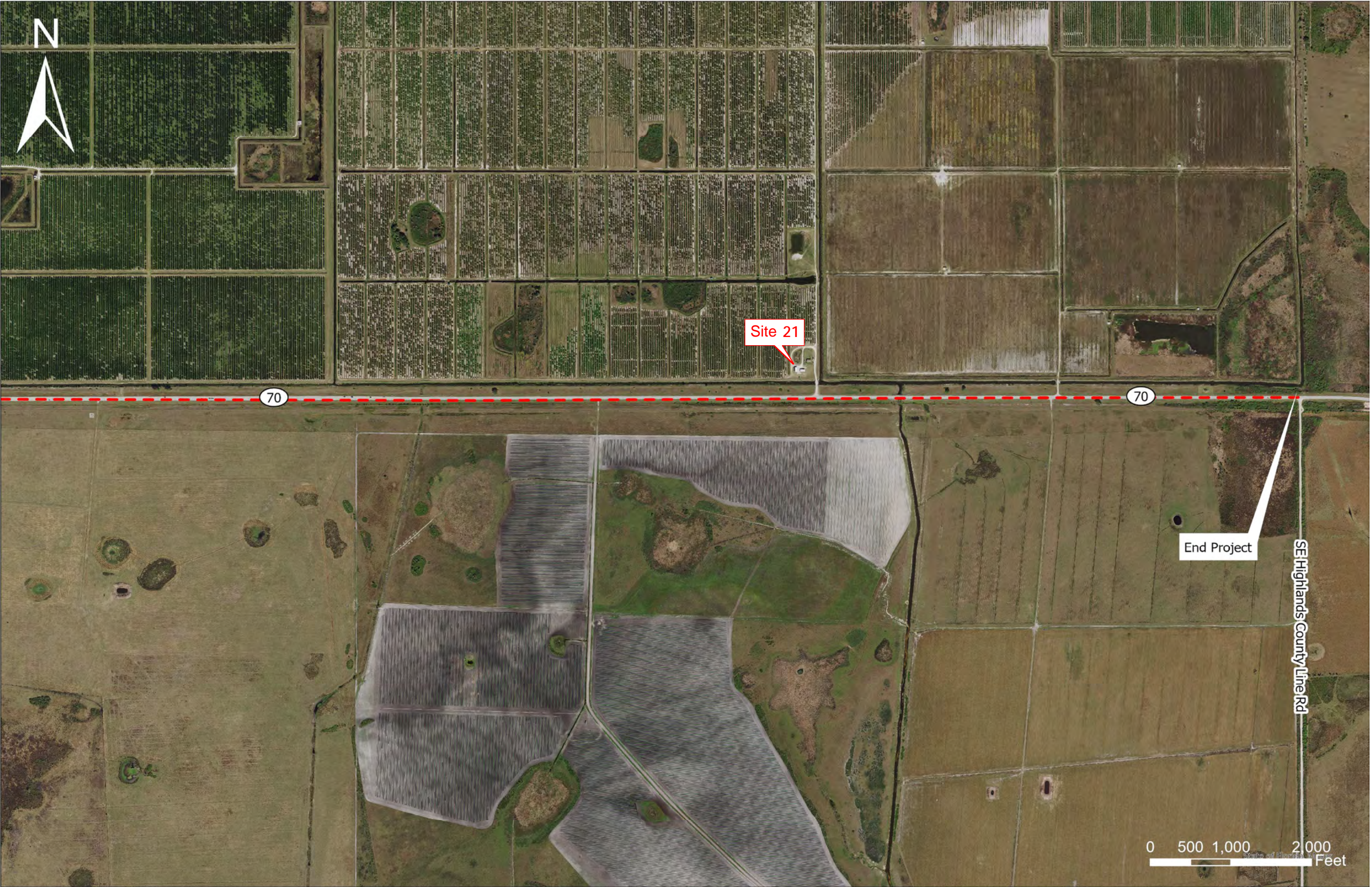
2020 Historical Aerial





2020 Historical Aerial





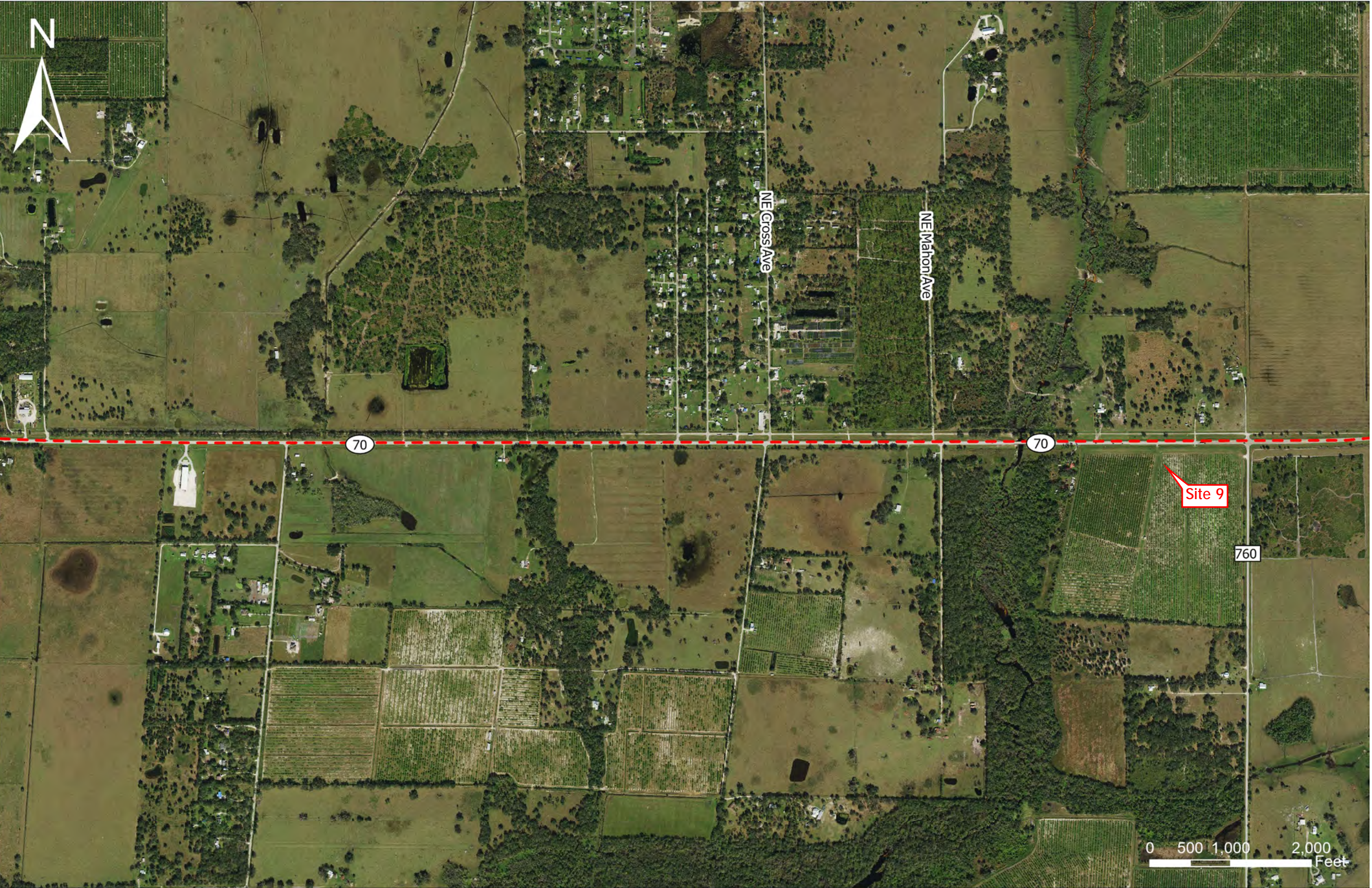
2020 Historical Aerial





2023 Historical Aerial





2023 Historical Aerial





2023 Historical Aerial





2023 Historical Aerial





2023 Historical Aerial



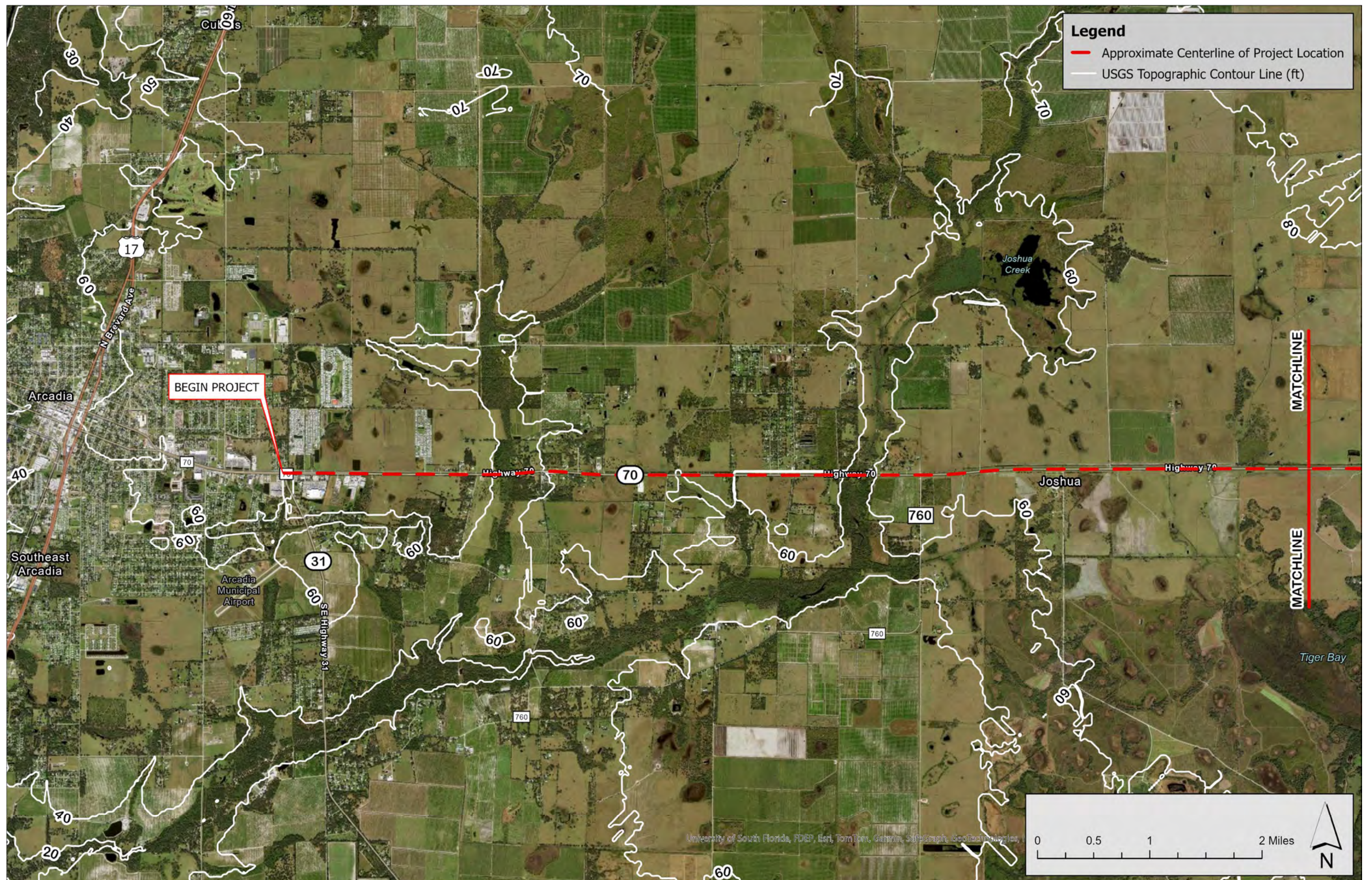


2023 Historical Aerial



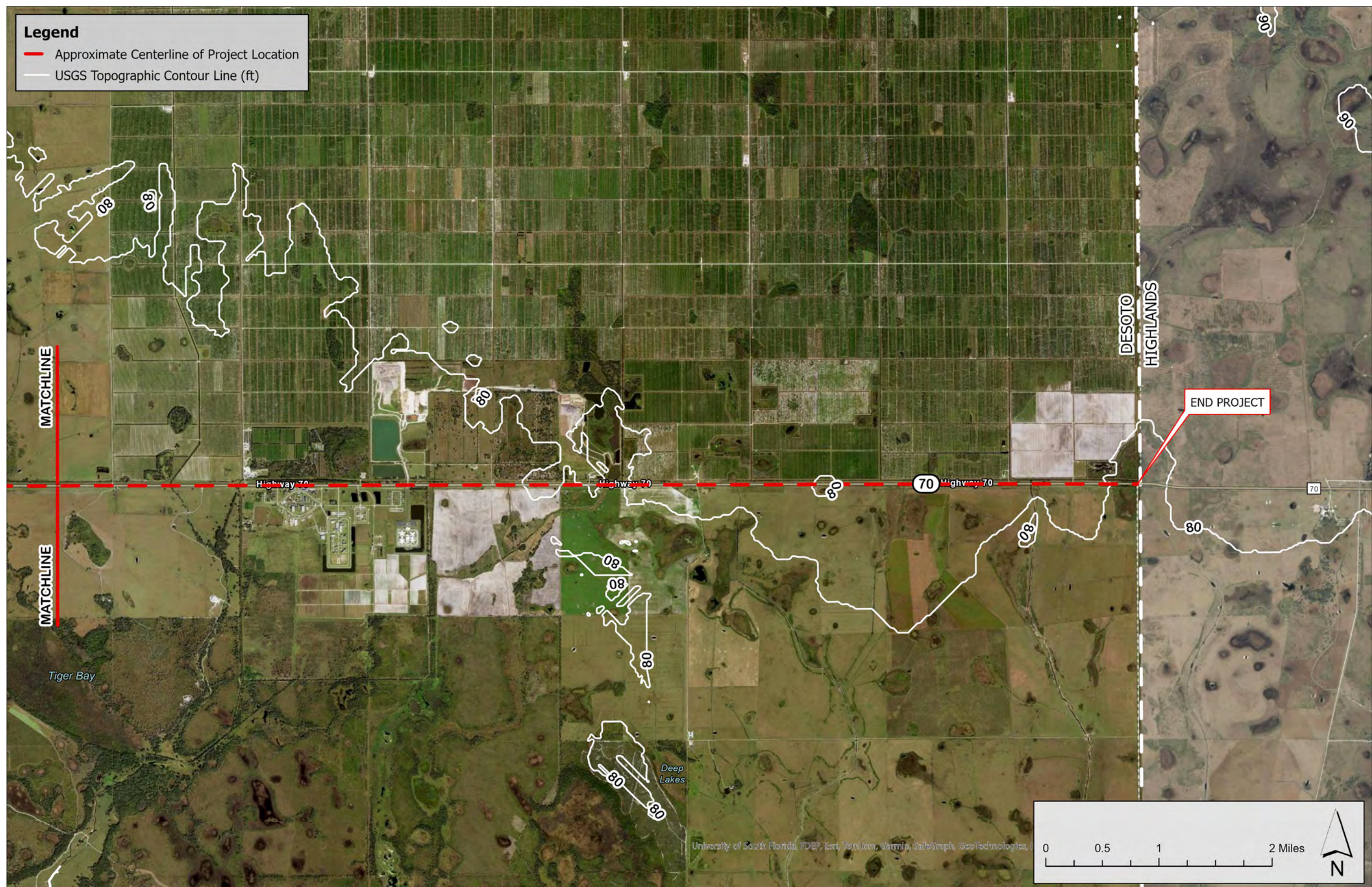
## **Appendix E – USGS Topographic Maps**





Appendix E – USGS Topographic Map



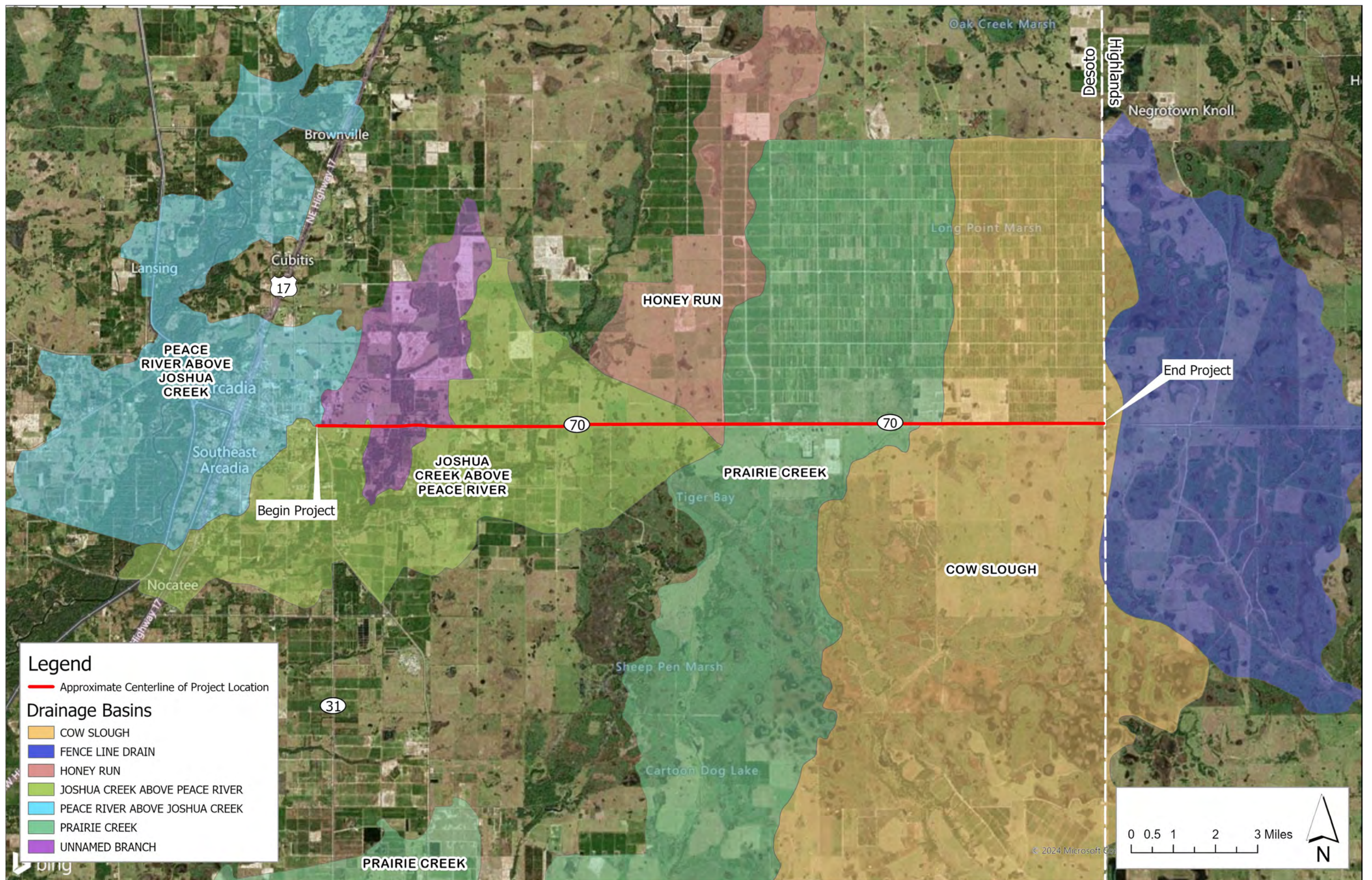


## Appendix E – USGS Topographic Map



## **Appendix F – FDEP Drainage Basin Map**



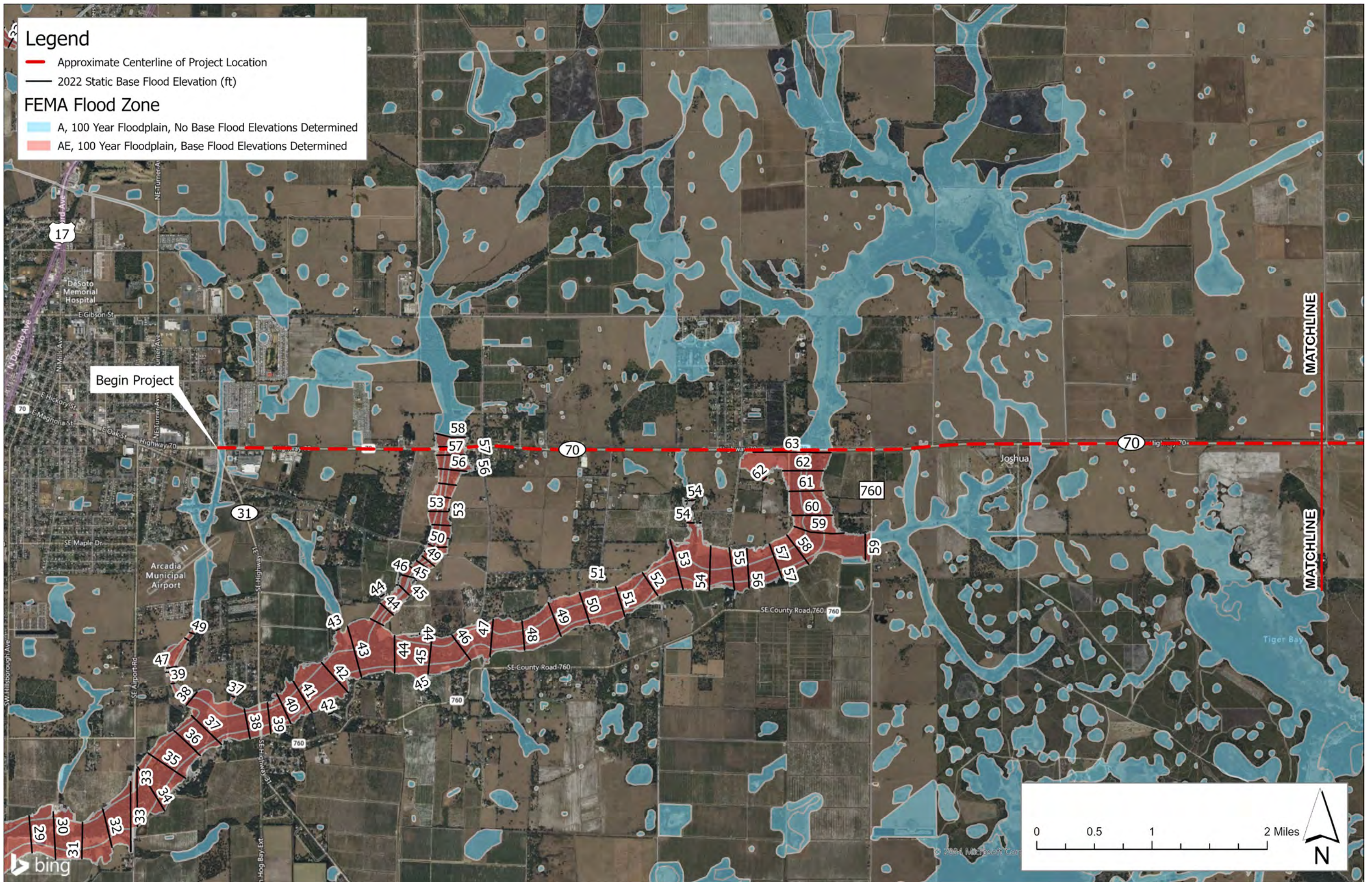


Appendix F – FDEP Drainage Basin Map



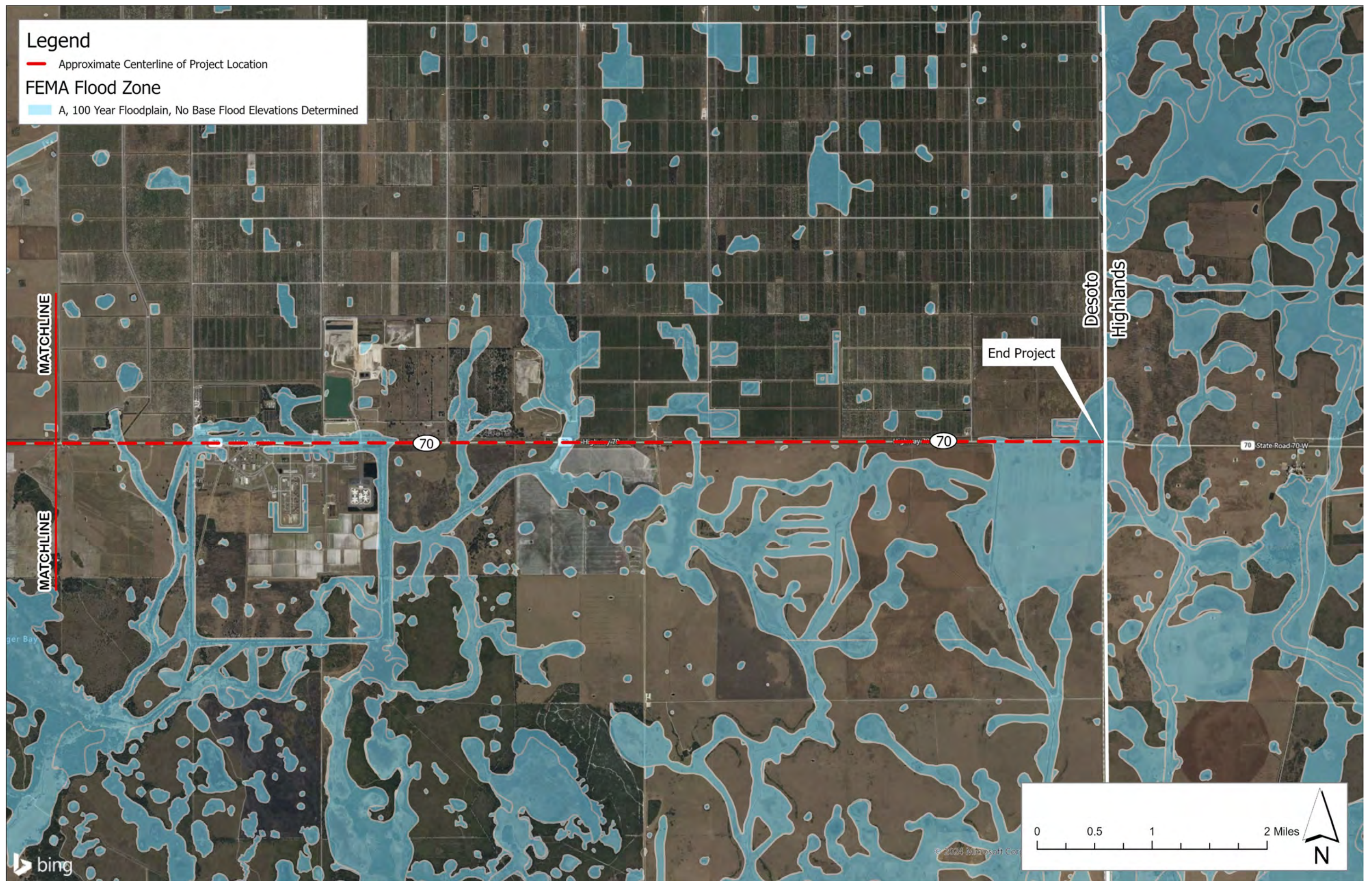
## **Appendix G – FEMA FIRM Floodplain Maps**





Appendix G – FEMA FIRM Floodplain Maps



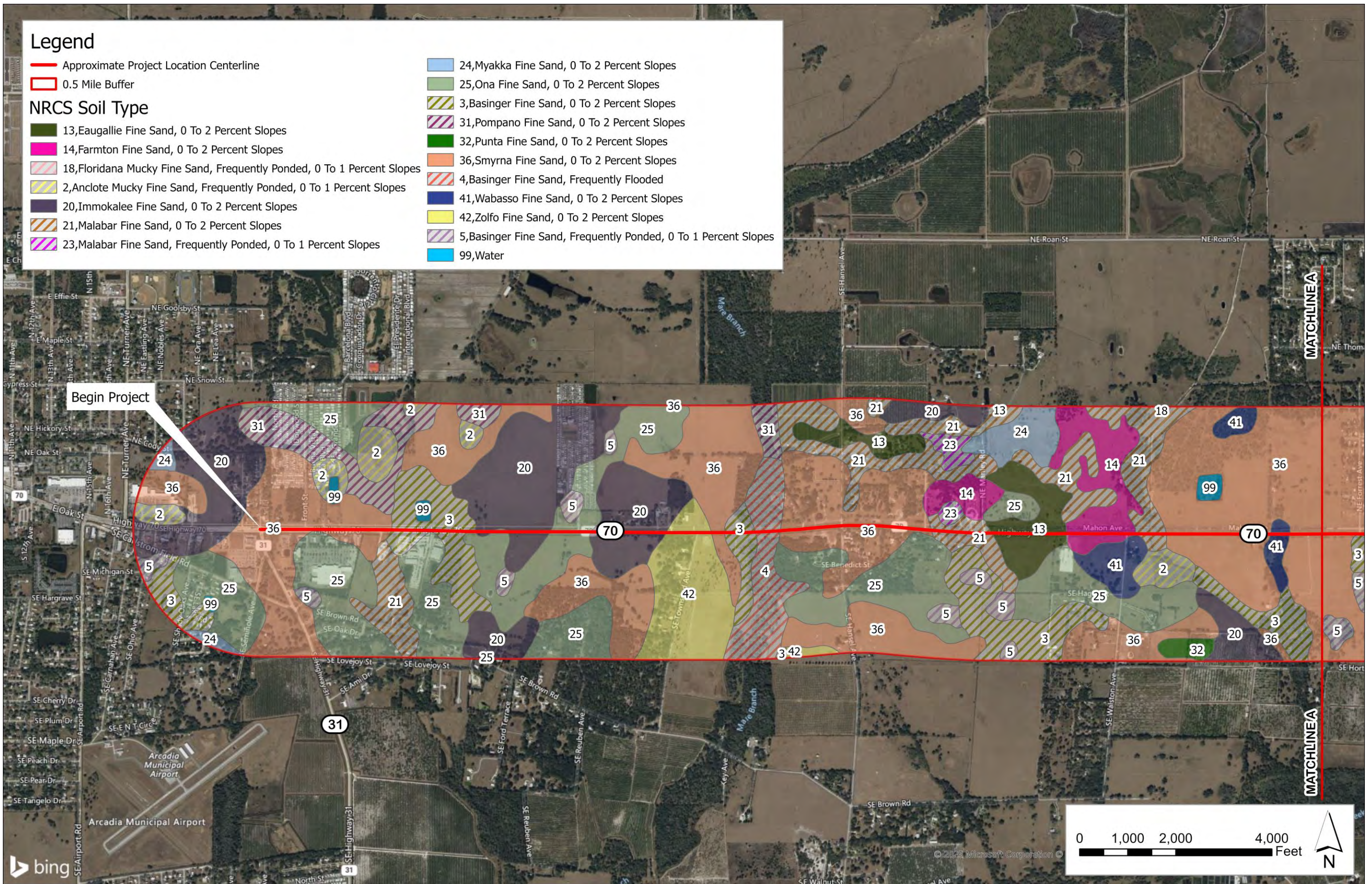


Appendix G – FEMA FIRM Floodplain Maps



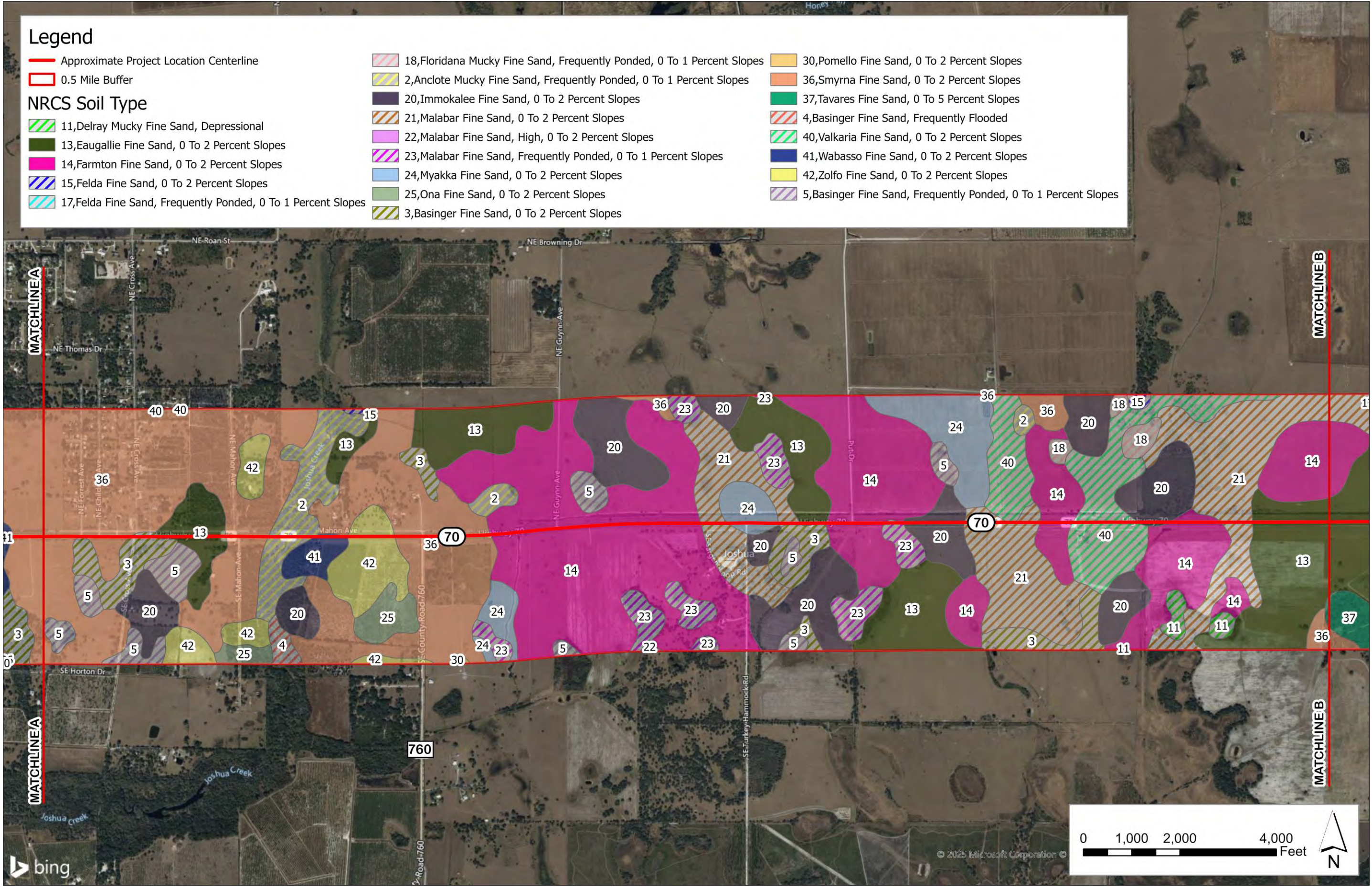
## **Appendix H – USDA Soil Survey Maps**





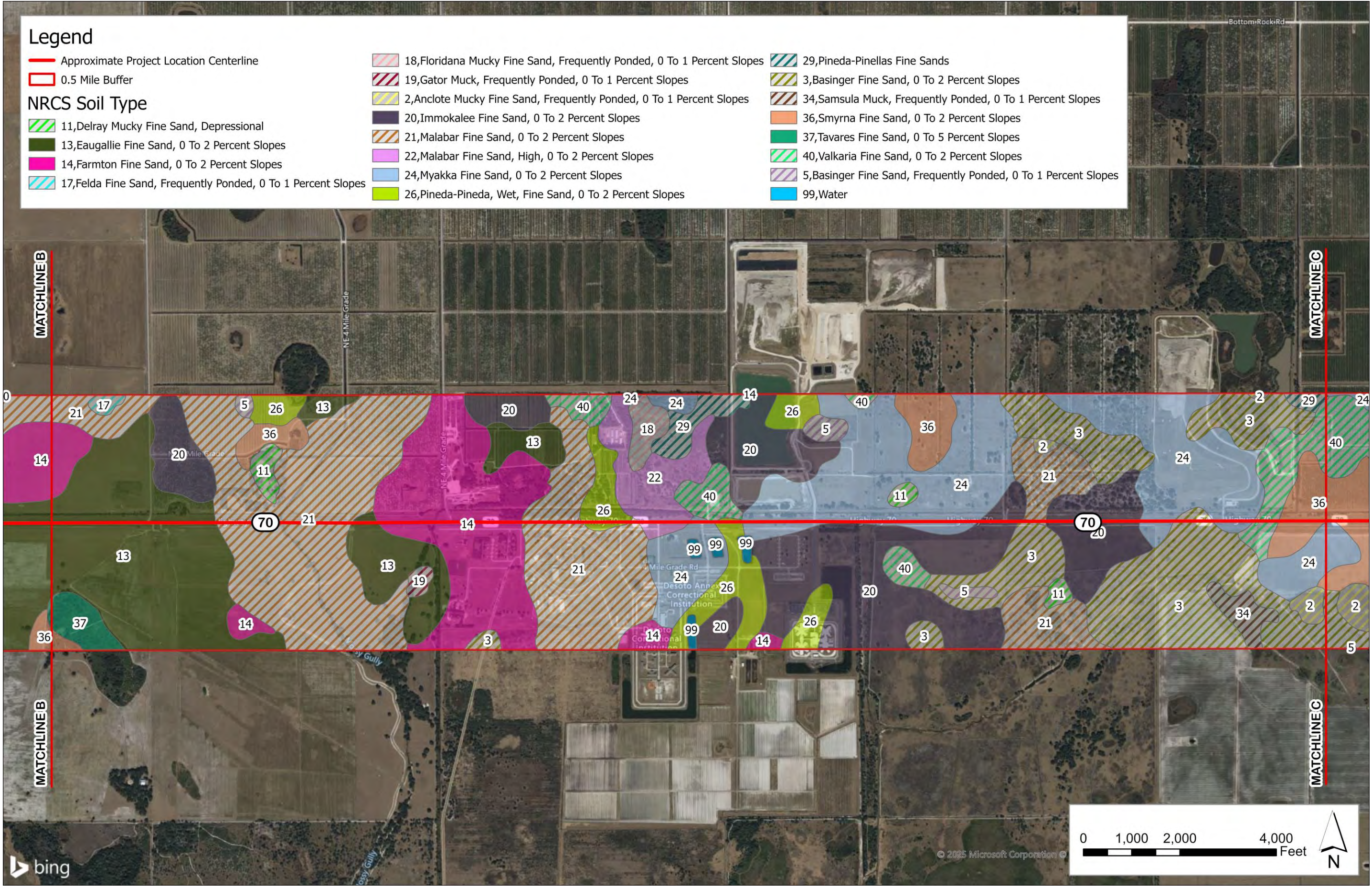
Appendix H – USDA Soil Survey Maps





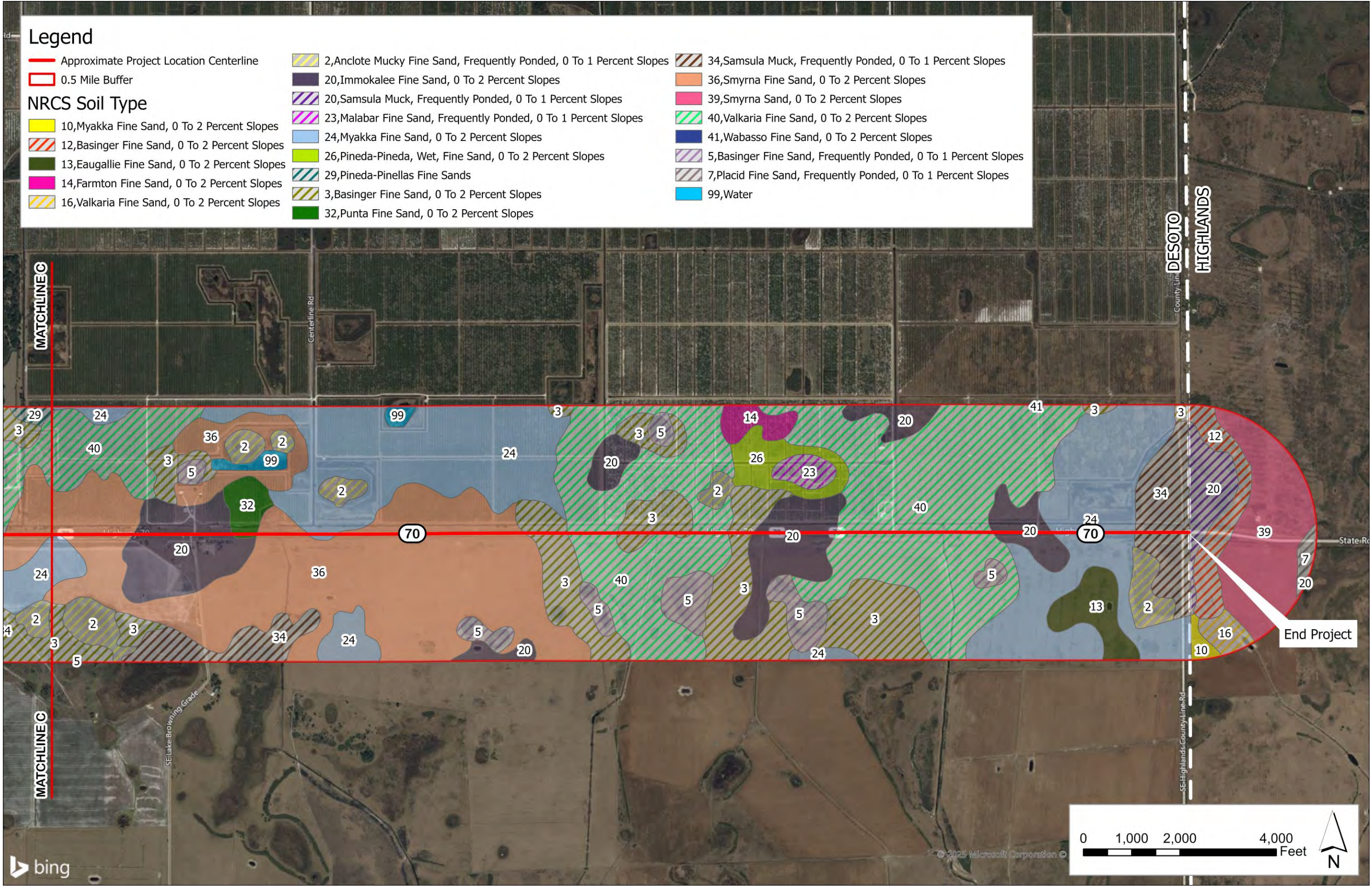
Appendix H – USDA Soil Survey Maps





Appendix H – USDA Soil Survey Maps





Appendix H – USDA Soil Survey Maps



## **Appendix I – EDR Report Executive Summary**



**SR 70 Arterial Corridors Program PD&E Study**

SR 70 From West of SR 31 To SE Highlands County Rd  
Arcadia, FL 34266

Inquiry Number: 7699408.4s

July 05, 2024

## EDR Area / Corridor Report



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



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Focus Maps .....	9
Map Findings .....	25
Orphan Summary .....	OR-1
Government Records Searched/Data Currency Tracking .....	GR-1

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### SUBJECT PROPERTY INFORMATION

#### ADDRESS

SR 70 FROM WEST OF SR 31 TO SE HIGHLANDS COUNTY RD  
ARCADIA, FL 34266

### TARGET PROPERTY SEARCH RESULTS

The Target Property was identified in the following databases.

Page Numbers and Map Identifications refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal ERNS list***

ERNS: Emergency Response Notification System

A review of the ERNS list, as provided by EDR, and dated 03/13/2024 has revealed that there is 1 ERNS site within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
Not reported NRC Report #: 617189 Incident Date Time: 2002-07-19 14:45:00	13617 SOUTHEAST HWY	D13 / 5	45

#### ***Lists of state and tribal landfills and solid waste disposal facilities***

SWF/LF: Solid Waste Facility Database

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
DESOTO RECYCLING & D Database: SWF/LF, Date of Government Version: 01/09/2024 Facility-Site Id: 95046 Class Status: ACTIVE (A)	13250 NORTHEAST HIGH	B7 / 5	32



## EXECUTIVE SUMMARY

### ***Lists of state and tribal leaking storage tanks***

LUST: Petroleum Contamination Detail Report

A review of the LUST list, as provided by EDR, and dated 01/22/2024 has revealed that there are 2 LUST sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
<b>FL DEPT OF CORRECTIO</b> Facility Status: OPEN Facility-Site Id: 8732080 Discharge Cleanup Status: NFA - NFA COMPLETE	<b>13617 SE HWY 70</b>	<b>D17 / 5</b>	<b>58</b>
<b>SUPER STOP PETROLEUM</b> Facility Status: OPEN Facility-Site Id: 8520880 Discharge Cleanup Status: SRCR - SRCR COMPLETE	<b>2829 HWY 70 W</b>	<b>L51 / 1</b>	<b>135</b>

### ***Lists of state and tribal registered storage tanks***

UST: Storage Tank Facility Information

A review of the UST list, as provided by EDR, has revealed that there are 2 UST sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
<b>FL DEPT OF CORRECTIO</b> Database: UST, Date of Government Version: 02/13/2024 Facility Status: OPEN Tank Status: D-Deleted - Data Error Tank Status: B-Removed from Site Facility-Site Id: 8732080	<b>13617 SE HWY 70</b>	<b>D17 / 5</b>	<b>58</b>
<b>SUPER STOP PETROLEUM</b> Database: UST, Date of Government Version: 02/13/2024 Facility Status: OPEN Tank Status: U-In Service Tank Status: D-Deleted - Data Error Tank Status: B-Removed from Site Tank Status: A-Closed In Place Facility-Site Id: 8520880	<b>2829 HWY 70 W</b>	<b>L51 / 1</b>	<b>135</b>

AST: Storage Tank Facility Information

A review of the AST list, as provided by EDR, has revealed that there are 3 AST sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
<b>DIAMOND D FARMS</b> Database: AST, Date of Government Version: 02/13/2024 Facility Status: OPEN	<b>12511 HWY 70 NW</b>	<b>C11 / 5</b>	<b>36</b>



## EXECUTIVE SUMMARY

Facility-Site Id: 9807834

Facility Status: OPEN

**FL DEPT OF CORRECTIO                      13617 SE HWY 70                      D17 / 5                      58**

Database: AST, Date of Government Version: 02/13/2024

Facility Status: OPEN

Facility-Site Id: 8732080

Facility Status: OPEN

**FL CIVIL COMMITMENT                      13619 SE HWY 70                      D28 / 5                      120**

Database: AST, Date of Government Version: 02/13/2024

Facility Status: OPEN

Facility-Site Id: 9811136

Facility Status: OPEN

### ADDITIONAL ENVIRONMENTAL RECORDS

#### ***Records of Emergency Release Reports***

SPILLS: Oil and Hazardous Materials Incidents

A review of the SPILLS list, as provided by EDR, and dated 03/28/2024 has revealed that there are 6 SPILLS sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
Not reported OHMIT Incident Number: 61658 Incident Status: Pending-HQ	13620 NE HWY. 70	A2 / 5	24
Not reported OHMIT Incident Number: 57707 Incident Status: Closed	13620 SR 70	A3 / 5	27
Not reported OHMIT Incident Number: 62223 Incident Status: Saved	13620 SE HWY. 70	A4 / 5	29
Not reported OHMIT Incident Number: 21847 Incident Status: Closed	13617 SE HIGHWAY 70	D18 / 5	97
Not reported OHMIT Incident Number: 42502 Incident Status: Closed	13617 SE HWY 70	D19 / 5	97
Not reported OHMIT Incident Number: 58941 Incident Status: Closed	13617 SE HWY 70	D20 / 5	98



## EXECUTIVE SUMMARY

### Other Ascertainable Records

FINDS: Facility Index System/Facility Registry System

A review of the FINDS list, as provided by EDR, and dated 02/09/2024 has revealed that there are 8 FINDS sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
DESOTO CORRECTIONAL Registry ID:: 110016520380	13617 S.E. HIGHWAY 7	D16 / 5	57
<b>SVP TREATMENT FACILI</b> Registry ID:: 110032782040	<b>13619 SE HWY-70</b>	<b>D26 / 5</b>	<b>110</b>
WALGREEN S STORE #10 Registry ID:: 110037312413	2450 HWY 70 SE	E29 / 1	122
<b>WALGREEN'S DESOTO CO</b> Registry ID:: 110037470475	<b>2450 HWY 70 SE</b>	<b>E30 / 1</b>	<b>122</b>
BIG TREE OF ARCADIA Registry ID:: 110035581153	2626 NE HIGHWAY 70	40 / 1	127
ARCADIA VILLAGE WWTF Registry ID:: 110027961221	2692 NE HIGHWAY 70	H43 / 1	128
26 FT MYER LAUNCHER Registry ID:: 110039141078	4000-4360 SE HWY-70	K46 / 2	130
TOBYS PLANTATION RV Registry ID:: 110027949442	3550 NE HIGHWAY 70	52 / 2	175

ECHO: Enforcement & Compliance History Information

A review of the ECHO list, as provided by EDR, and dated 12/17/2023 has revealed that there are 4 ECHO sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
<b>SVP TREATMENT FACILI</b> Registry ID: 110032782040	<b>13619 SE HWY-70</b>	<b>D26 / 5</b>	<b>110</b>
<b>WALGREEN'S DESOTO CO</b> Registry ID: 110037470475	<b>2450 HWY 70 SE</b>	<b>E30 / 1</b>	<b>122</b>
26 FT MYER LAUNCHER Registry ID: 110039141078	4000-4360 SE HWY-70	K47 / 2	130
SR 70 DESOTO COUNTY Registry ID: 110064422450	UNKNOWN	M58 / 3	178

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

A review of the PFAS ECHO list, as provided by EDR, and dated 12/28/2023 has revealed that there is 1 PFAS ECHO site within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
WCA OF FLORIDA DESOT		10 / 6	34



## EXECUTIVE SUMMARY

### DWM CONTAM: DWM CONTAMINATED SITES

A review of the DWM CONTAM list, as provided by EDR, and dated 07/14/2023 has revealed that there are 3 DWM CONTAM sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
<b>VEHICLE ACCIDENT-OER</b> Program Site Id: ERIC_15303	<b>13620 SE HWY 70</b>	<b>A5 / 5</b>	<b>30</b>
<b>FL DEPT OF CORRECTIO</b> Program Site Id: 8732080	<b>13617 SE HWY 70</b>	<b>D17 / 5</b>	<b>58</b>
<b>SUPER STOP PETROLEUM</b> Program Site Id: 8520880	<b>2829 HWY 70 W</b>	<b>L51 / 1</b>	<b>135</b>

### Financial Assurance: Financial Assurance Information Listing

A review of the Financial Assurance list, as provided by EDR, has revealed that there are 4 Financial Assurance sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
DIAMOND D FARMS Database: FIN ASSURANCE 3, Date of Government Version: 02/08/2024 Facility Status: OPEN Facility ID: 9807834	12511 HWY 70 NW	C12 / 5	41
<b>FL DEPT OF CORRECTIO</b> Database: FIN ASSURANCE 3, Date of Government Version: 02/08/2024 Facility Status: OPEN Facility ID: 8732080	<b>13617 SE HWY 70</b>	<b>D17 / 5</b>	<b>58</b>
FL CIVIL COMMITMENT Database: FIN ASSURANCE 3, Date of Government Version: 02/08/2024 Facility Status: OPEN Facility ID: 9811136	13619 SE HWY 70	D25 / 5	108
<b>SUPER STOP PETROLEUM</b> Database: FIN ASSURANCE 3, Date of Government Version: 02/08/2024 Facility Status: OPEN Facility ID: 8520880	<b>2829 HWY 70 W</b>	<b>L51 / 1</b>	<b>135</b>

### HAZ WASTE: Hazardous Waste Information Listing

A review of the HAZ WASTE list, as provided by EDR, and dated 02/12/2024 has revealed that there are 18 HAZ WASTE sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
ALICO, INC	15578 HIGHWAY 70 E	1 / 6	24
ALICO INC	12010 HIGHWAY 70 NE	C9 / 5	34
SARASOTA TRANSMISSIO	4597 HIGHWAY 70 W	F31 / 2	123
SARASOTA TRANSMISSIO	4597 HIGHWAY 70 NW	F32 / 2	123
SARASOTA TRANSMISSIO	4597 HIGHWAY 70 NW	F33 / 2	124
EASY MINI STORAGE	4599 HIGHWAY 70 NW	F34 / 2	124
ARCADIA COMPUTER, IN	4599 HWY 70 NW B	F35 / 2	125
BIG TREE CARE FREE R	2626 HIGHWAY 70 NE	G36 / 1	125
ARCADIA VILLAGE	2692 HWY 70 NE 532	G37 / 1	126
PEACE RIVER CAMPGROU	2998 HWY 70 NW	H38 / 1	126



## EXECUTIVE SUMMARY

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
ENCORE TOBY'S	3550 HIGHWAY 70 NE	41 / 2	128
FC OF ARCADIA	4904 HIGHWAY 70 NE	J42 / 2	128
HAYES MEDICAL TRANSP	3884 HIGHWAY 70 NE	45 / 2	130
WAL-MART SUPERCENTER	2725 HIGHWAY 70 SE	48 / 1	131
DESOTO AUTO MALL	3039 HIGHWAY 70 SE	I53 / 1	175
AGRI SERVICES INTERN	6490 HWY 70 EAST	54 / 3	176
ASAM INC	4925 HWY 70 NW	J55 / 2	176
BARKMAN HONEY	5385 HIGHWAY 70 SE	56 / 2	176

### RESP PARTY: Responsible Party Sites Listing

A review of the RESP PARTY list, as provided by EDR, and dated 03/25/2024 has revealed that there are 2 RESP PARTY sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
<b>VEHICLE ACCIDENT-OER</b> Site Status: OPEN	<b>13620 SE HWY 70</b>	<b>A5 / 5</b>	<b>30</b>
<b>FLORIDA CIVIL COMMIT</b> Site Status: CLOSED	<b>13619 SE HIGHWAY 70</b>	<b>D23 / 5</b>	<b>102</b>

### SOLCP: State-Owned Lands Cleanup Program Listing

A review of the SOLCP list, as provided by EDR, and dated 02/05/2024 has revealed that there is 1 SOLCP site within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
<b>DESOTO CORRECTIONAL</b>	<b>13617 SE HIGHWAY 70</b>	<b>D14 / 5</b>	<b>45</b>

### TIER 2: Tier 2 Facility Listing

A review of the TIER 2 list, as provided by EDR, and dated 12/31/2022 has revealed that there are 4 TIER 2 sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
<b>DESOTO CORRECTIONAL</b> Facility Id: 6627697 Facility Id: 4982953 Facility Id: 4495980 Facility Id: 7254793 Facility Id: 6360046 <i>*Additional key fields are available in the Map Findings section</i>	<b>13617 SE HIGHWAY 70</b>	<b>D14 / 5</b>	<b>45</b>
DESOTO CORRECTIONAL Facility Id: 4497206 Facility Id: 5019520 Facility Id: 4037279	13617 S. E. HIGHWAY	D22 / 5	99
FLORIDA CIVIL COMMIT Facility Id: 7278269 Facility Id: 7135657	13619 SE HWY 70	D24 / 5	105



## EXECUTIVE SUMMARY

Facility Id: 6855930

Facility Id: 6653127

FLORIDA CIVIL COMMIT	13619 SOUTHEAST HIGH	D27 / 5	111
Facility Id: 4565499			
Facility Id: 6137149			
Facility Id: 5024765			
Facility Id: 5425703			
Facility Id: 3994249			
<i>*Additional key fields are available in the Map Findings section</i>			

### NPDES: Wastewater Facility Regulation Database

A review of the NPDES list, as provided by EDR, and dated 01/29/2024 has revealed that there are 3 NPDES sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
FDOT PERENNIAL PEANU Status: A Facility ID: FLR10RB40		I39 / 1	127
ARCADIA VILLAGE WWTF Status: A Facility ID: FLA011963	2692 NE HIGHWAY 70	H44 / 1	129
SR 70 DESOTO COUNTY Status: A Facility ID: FLR10OZ07		M57 / 3	177

### UST FINDER RELEASE: UST Finder Releases Database

A review of the UST FINDER RELEASE list, as provided by EDR, and dated 06/08/2023 has revealed that there are 2 UST FINDER RELEASE sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
FL DEPT OF CORRECTIO	13617 SE HWY 70	D15 / 5	55
SUPER STOP PETROLEUM	2829 HWY 70 W	L50 / 1	131

### ERIC WASTE CLEANUP: Environmental Restoration Integrated Cleanup Listing

A review of the ERIC WASTE CLEANUP list, as provided by EDR, and dated 06/24/2024 has revealed that there are 3 ERIC WASTE CLEANUP sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
VEHICLE ACCIDENT-OER	13620 SE HWY 70	A5 / 5	30
DESOTO CORRECTIONAL	13617 SE HIGHWAY 70	D14 / 5	45
FLORIDA CIVIL COMMIT	13619 SE HIGHWAY 70	D23 / 5	102



## EXECUTIVE SUMMARY

### UST FINDER: UST Finder Database

A review of the UST FINDER list, as provided by EDR, and dated 06/08/2023 has revealed that there are 2 UST FINDER sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
<b><i>FL DEPT OF CORRECTIO</i></b>	<b><i>13617 SE HWY 70</i></b>	<b><i>D15 / 5</i></b>	<b><i>55</i></b>
<b><i>SUPER STOP PETROLEUM</i></b>	<b><i>2829 HWY 70 W</i></b>	<b><i>L50 / 1</i></b>	<b><i>131</i></b>

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

#### RGA LF: Recovered Government Archive Solid Waste Facilities List

A review of the RGA LF list, as provided by EDR, has revealed that there are 2 RGA LF sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
DESOTO RECYCLING & D Facility ID: 95046	13250 NORTHEAST HIGH	B6 / 5	32
WSI/FREEDOM DESOTO C Facility ID: 95046	13250 NORTHEAST HIGH	B8 / 5	34

#### RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

A review of the RGA LUST list, as provided by EDR, has revealed that there are 2 RGA LUST sites within the requested target property.

<u>Site</u>	<u>Address</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
FL DEPT OF CORRECTIO Facility ID: 8732080	13617 SE HWY 70	D21 / 5	99
A J PETROLEUM LLC #1 Facility ID: 8520880	2829 HWY 70 W	L49 / 1	131

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Page Numbers and Map Identifications refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.



## EXECUTIVE SUMMARY

### STANDARD ENVIRONMENTAL RECORDS

#### ***Lists of Federal RCRA generators***

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

A review of the RCRA-VSQG list, as provided by EDR, and dated 06/03/2024 has revealed that there are 3 RCRA-VSQG sites within approximately 0.25 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
FLORIDA POWER & LIGH EPA ID:: FLR000124859	12942 N E HWY 70	N 0 - 1/8 (0.117 mi.)	71 / 5	198
DESOTO AUTO MALL EPA ID:: FLR000025288	3039 SE HIGHWAY 70	S 1/8 - 1/4 (0.132 mi.)	72 / 1	202
<b>WINN-DIXIE #2491</b> EPA ID:: FLR000211458	<b>1737 E OAK ST</b>	<b>WNW 1/8 - 1/4 (0.196 mi.)</b>	<b>78 / 1</b>	<b>253</b>

#### ***Lists of state and tribal landfills and solid waste disposal facilities***

SWF/LF: Solid Waste Facility Database

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
<b>DESOTO C&amp;D DISPOSAL</b> Database: SWF/LF, Date of Government Version: 01/09/2024 Facility-Site Id: 92117 Class Status: ACTIVITY NOT PERMITTED/REGISTERED (N) Class Status: ACTIVE (A) Class Status: INACTIVE (I)	<b>14662 NORTHEAST HIGH</b>	<b>N 1/4 - 1/2 (0.385 mi.)</b>	<b>86 / 6</b>	<b>308</b>

#### ***Lists of state and tribal leaking storage tanks***

LUST: Petroleum Contamination Detail Report

A review of the LUST list, as provided by EDR, and dated 01/22/2024 has revealed that there are 2 LUST sites within approximately 0.5 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
<b>SHAMROCK-BUD'S</b> Facility Status: CLOSED Facility-Site Id: 8943151 Discharge Cleanup Status: SRCR - SRCR COMPLETE	<b>SR 70 E</b>	<b>WSW 1/4 - 1/2 (0.298 mi.)</b>	<b>83 / 1</b>	<b>272</b>
<b>LOS PRIMOS SUNOCO</b> Facility Status: OPEN	<b>2009 SE HIGHWAY 70</b>	<b>W 1/4 - 1/2 (0.364 mi.)</b>	<b>R85 / 1</b>	<b>281</b>



## EXECUTIVE SUMMARY

Facility-Site Id: 8521214  
 Discharge Cleanup Status: RA - RA ONGOING  
 Discharge Cleanup Status: NREQ - CLEANUP NOT REQUIRED

### ***Lists of state and tribal registered storage tanks***

UST: Storage Tank Facility Information

A review of the UST list, as provided by EDR, has revealed that there are 4 UST sites within approximately 0.25 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
<b>MURPHY USA #6902</b> Database: UST, Date of Government Version: 02/13/2024 Facility Status: OPEN Tank Status: U-In Service Facility-Site Id: 9805491	<b>2769 SE HWY 70</b>	<b>S 0 - 1/8 (0.037 mi.)</b>	<b>N64 / 1</b>	<b>181</b>
<b>CEMEX - ARCADIA READ</b> Database: UST, Date of Government Version: 02/13/2024 Facility Status: CLOSED Tank Status: A-Closed In Place Facility-Site Id: 8520851	<b>E HWY 70</b>	<b>S 0 - 1/8 (0.042 mi.)</b>	<b>65 / 1</b>	<b>191</b>
<b>PRIDE ENTERPRISES -</b> Database: UST, Date of Government Version: 02/13/2024 Facility Status: CLOSED Tank Status: B-Removed from Site Facility-Site Id: 8735792	<b>SR 70 11 MIL E OF AR</b>	<b>S 0 - 1/8 (0.088 mi.)</b>	<b>69 / 6</b>	<b>196</b>
<b>761 GROCERY</b> Database: UST, Date of Government Version: 02/13/2024 Facility Status: OPEN Tank Status: B-Removed from Site Tank Status: U-In Service Facility-Site Id: 8943540	<b>HWY 761</b>	<b>S 1/8 - 1/4 (0.219 mi.)</b>	<b>Q79 / 5</b>	<b>260</b>

AST: Storage Tank Facility Information

A review of the AST list, as provided by EDR, has revealed that there are 8 AST sites within approximately 0.25 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
<b>CEMEX - ARCADIA READ</b> Database: AST, Date of Government Version: 02/13/2024 Facility Status: CLOSED Facility-Site Id: 8520851 Facility Status: CLOSED	<b>E HWY 70</b>	<b>S 0 - 1/8 (0.042 mi.)</b>	<b>65 / 1</b>	<b>191</b>
<b>WHITMAN DRAINAGE CO</b> Database: AST, Date of Government Version: 02/13/2024 Facility Status: CLOSED Facility-Site Id: 8838642	<b>CORNER SR 70 E &amp; SR</b>	<b>S 0 - 1/8 (0.080 mi.)</b>	<b>68 / 1</b>	<b>195</b>



## EXECUTIVE SUMMARY

Facility Status: CLOSED

<b>PRIDE ENTERPRISES -</b>	<b>SR 70 11 MIL E OF AR</b>	<b>S 0 - 1/8 (0.088 mi.)</b>	<b>69 / 6</b>	<b>196</b>
Database: AST, Date of Government Version: 02/13/2024				
Facility Status: CLOSED				
Facility-Site Id: 8735792				
Facility Status: CLOSED				
WALMART 811 - POWERS	2725 SE HWY 70	S 1/8 - 1/4 (0.145 mi.)	P73 / 1	245
Database: AST, Date of Government Version: 02/13/2024				
Facility Status: OPEN				
Facility-Site Id: 9815778				
Facility Status: OPEN				
WAL-MART SUPERCENTER	2725 SE HWY 70	S 1/8 - 1/4 (0.145 mi.)	P75 / 1	247
Database: AST, Date of Government Version: 02/13/2024				
Facility Status: OPEN				
Facility-Site Id: 9805761				
Facility Status: OPEN				
SOUTH EAST GROVES LL	SECTIONS 26 & 35	N 1/8 - 1/4 (0.190 mi.)	77 / 4	250
Database: AST, Date of Government Version: 02/13/2024				
Facility Status: CLOSED				
Facility-Site Id: 9700568				
Facility Status: CLOSED				
LONG GROVE	HWY 70 7 MI E OF ARC	S 1/8 - 1/4 (0.238 mi.)	Q80 / 5	270
Database: AST, Date of Government Version: 02/13/2024				
Facility Status: OPEN				
Facility-Site Id: 9300330				
Facility Status: OPEN				
SORRELLS GROVE INC	WILLIAMS RD & WILLIA	S 1/8 - 1/4 (0.238 mi.)	Q81 / 5	271
Database: AST, Date of Government Version: 02/13/2024				
Facility Status: CLOSED				
Facility-Site Id: 9101057				
Facility Status: CLOSED				

### ADDITIONAL ENVIRONMENTAL RECORDS

#### ***Other Ascertainable Records***

FUDS: Formerly Used Defense Sites

A review of the FUDS list, as provided by EDR, and dated 01/30/2024 has revealed that there is 1 FUDS site within approximately 1 mile of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
DORR FIELD		S 1/2 - 1 (0.524 mi.)	87 / 5	315



## EXECUTIVE SUMMARY

### DWM CONTAM: DWM CONTAMINATED SITES

A review of the DWM CONTAM list, as provided by EDR, and dated 07/14/2023 has revealed that there are 2 DWM CONTAM sites within approximately 0.5 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
<b>SHAMROCK-BUD'S</b> Program Site Id: 8943151	<b>SR 70 E</b>	<b>WSW 1/4 - 1/2 (0.298 mi.)</b>	<b>R83 / 1</b>	<b>272</b>
<b>LOS PRIMOS SUNOCO</b> Program Site Id: 8521214	<b>2009 SE HIGHWAY 70</b>	<b>W 1/4 - 1/2 (0.364 mi.)</b>	<b>R85 / 1</b>	<b>281</b>

### HAZ WASTE: Hazardous Waste Information Listing

A review of the HAZ WASTE list, as provided by EDR, and dated 02/12/2024 has revealed that there are 7 HAZ WASTE sites within approximately 0.25 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
B & J PRODUCE LLC	1025 POLK AVE NE	N 0 - 1/8 (0.033 mi.)	60 / 1	179
FUTURE MOTORS	1018 CANAL AVE NE	N 0 - 1/8 (0.034 mi.)	61 / 1	179
K & J'S HOMEGROWN PR	2228 HIGHWAY 70 NE	W 0 - 1/8 (0.074 mi.)	O66 / 1	194
MOTT'S AUTO REPAIR	2269 HIGHWAY 70 SE	W 0 - 1/8 (0.078 mi.)	O67 / 1	194
LA COSTENA	2233 HIGHWAY 70 SE	W 0 - 1/8 (0.116 mi.)	70 / 1	198
DESOTO AUTO WASH	2163 HWY 70 EAST	W 1/8 - 1/4 (0.189 mi.)	76 / 1	249
DESOTO VETERINARY SE	1240 HIGHWAY 31 SE	S 1/8 - 1/4 (0.239 mi.)	82 / 1	272

### HW GEN: Hazardous Waste Generators

A review of the HW GEN list, as provided by EDR, and dated 03/19/2024 has revealed that there is 1 HW GEN site within approximately 0.25 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
WALMART SUPERCENTER	2725 SE HIGHWAY 70	S 1/8 - 1/4 (0.145 mi.)	P74 / 1	247

### UST FINDER RELEASE: UST Finder Releases Database

A review of the UST FINDER RELEASE list, as provided by EDR, and dated 06/08/2023 has revealed that there are 2 UST FINDER RELEASE sites within approximately 0.5 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
SOUTHERN FARMS - SUN	14900 SR 70 W	E 0 - 1/8 (0.028 mi.)	59 / 8	178
<b>A J PETROLEUM LLC #1</b>	<b>2009 SE HWY 70</b>	<b>W 1/4 - 1/2 (0.364 mi.)</b>	<b>R84 / 1</b>	<b>278</b>

### UST FINDER: UST Finder Database

A review of the UST FINDER list, as provided by EDR, and dated 06/08/2023 has revealed that there is 1 UST FINDER site within approximately 0.25 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
MURPHY USA #6902	2769 SE HWY 70	S 0 - 1/8 (0.037 mi.)	N63 / 1	180



## EXECUTIVE SUMMARY

### E MANIFEST: Hazardous Waste Electronic Manifest System

A review of the E MANIFEST list, as provided by EDR, and dated 07/24/2023 has revealed that there is 1 E MANIFEST site within approximately 0.25 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
WINN-DIXIE #2491	1737 E OAK ST	WNW 1/8 - 1/4 (0.196 mi.)	78 / 1	253

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

#### EDR Hist Auto: EDR Exclusive Historical Auto Stations

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the requested target property.

<u>Site</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID / Focus Map(s)</u>	<u>Page</u>
MURPHY USA 06902	2769 SE HIGHWAY 70	S 0 - 1/8 (0.037 mi.)	N62 / 1	180



## **Appendix J – Field Review Photos**



Site 1 – Cemex – Arcadia Ready Mix

Facility ID – 8520851

Site 2 – Take 5 Oil Change

Source – Field Review

2307 SE Hwy 70

Arcadia, FL 34266





2024 Field Photo – Facing North





2024 Field Photo – Facing South



Site 3 – Publix Super Market #1528

2551 SE Hwy 70

Facility ID – FLR000257303/9814989





2024 Field Photo – Facing South





2024 Field Photo – Back of building/Facing Northeast





2024 Field Photo – Back of building/Facing Northwest



Site 4 – Walgreens Pharmacy

2575 NE Hwy 70

Source – Field Review





2024 Field Photo – Facing Northwest



Site 5 – Whitman Drainage Co

Corner of SR 70 E & SR 31

Facility ID – 8838642





2024 Field Photo – Vacant property; facing north





2024 Field Photo – Facing east





2024 Field Photo – Drainage area; facing south



Site 7 – Murphy US #6902

Facility ID – 9805491

2769 SE Hwy 70





2024 Field Photo – Front of gas station; facing south





2024 Field Photo – Facing northeast





2024 Field Photo – Monitoring well next to fuel pumps



Site 8 – Desoto Auto Mall

Facility ID – FLR000025288

3039 SE Hwy 70





2024 Field Photo – Showing property and SR 70; facing southeast





2024 Field Photo – Auto shop area; facing southeast



Site 10 – DeSoto Correctional Inst WWTF Lift Station 1

13615 SE Hwy 70

Facility ID – 9813832





2024 Field Photo – West end of Desoto Correctional; facing southeast





2024 Field Photo – Photo of lift station's proximity to SR 70; facing east





Field Photo – East side of lift station area; facing south



Site 11 – Desoto Correctional Inst Work Camp and Annex

13617 SE Hwy 70

Facility ID – ERIC\_6124





2024 Field Photo – Entrance to DeSoto Correctional Institution; facing east





2024 Field Photo – Entrance to DeSoto Correctional Institution; facing southeast





2024 Field Photo – Work Camp annex; facing south



Site 12 – FL Dept of Corrections

13617 SE Hwy 70

Facility ID – 8732080





2024 Field Photo – Generator at entrance of DeSoto Corrections; facing southeast





2024 Field Photo – Generator and tank next to facility entrance; facing southwest



Site 13 – FP&L Company - Dorrfield Substation

Facility ID – FLR000124859

12942 NE Hwy 70





2024 Field Photo – Entrance to substation; facing northwest





2024 Field Photo – Facing north





2024 Field Photo – Facing northeast



Site 14 – Basewide - Dorr Field

13615 SE Hwy 70

Facility ID - ERIC\_17342





2024 Field Photo – Area of road marked as waste cleanup site; facing southeast





2024 Field Photo – Facing southwest



Site 15 – Florida Civil Commitment Center

13619 SE Hwy 70

Facility ID – ERIC\_14896





2024 Field Photo – Entrance to site from SR 70; facing southwest





2024 Field Photo – Civil Commitment Center; facing southeast



Site 16 – Desoto Recycling & Disposal

13250 NE Hwy 70

Facility ID – 95046





2024 Field Photo – Entrance to facility; facing north





2024 Field Photo – Facing northwest





2024 Field Photo – Recycling and disposal site; facing northwest



Site 17 – Pride Enterprises - Desoto Cattle

SR 70 11 mi E of Arcadia

Facility ID – 8735792





2024 Field Photo – Property facing south





2024 Field Photo – Property facing south



Site 18 – Desoto C&D Disposal Facility

14662 NW Hwy 70

Facility ID –92117





2024 Field Photo – Front of property; facing north





2024 Field Photo – Front of property; facing northeast



Site 20 – Rum Creek Ranch

1114 SE Lake Browning Grade (SR 70)

Facility ID – 8520877





2024 Field Photo – Front of property facing southeast





2024 Field Photo – Entrance to property; facing south





2024 Field Photo – Front of property and SR 70; facing east



Site 21 – Rainbow Grove

17992 NE Hwy 70

Arcadia, FL 34266

Source – 8839822



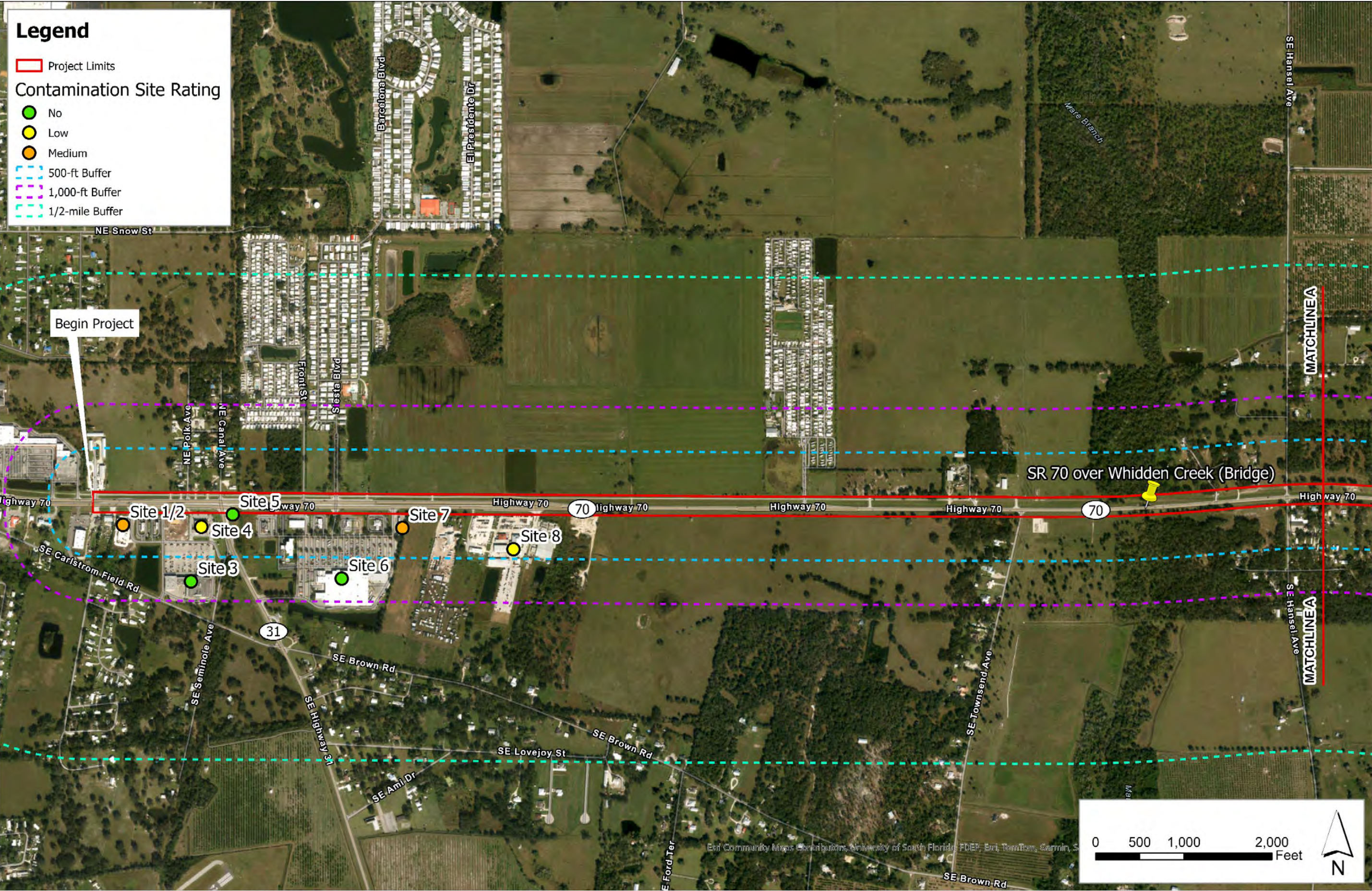


2024 Field Photo – Front of property; facing north



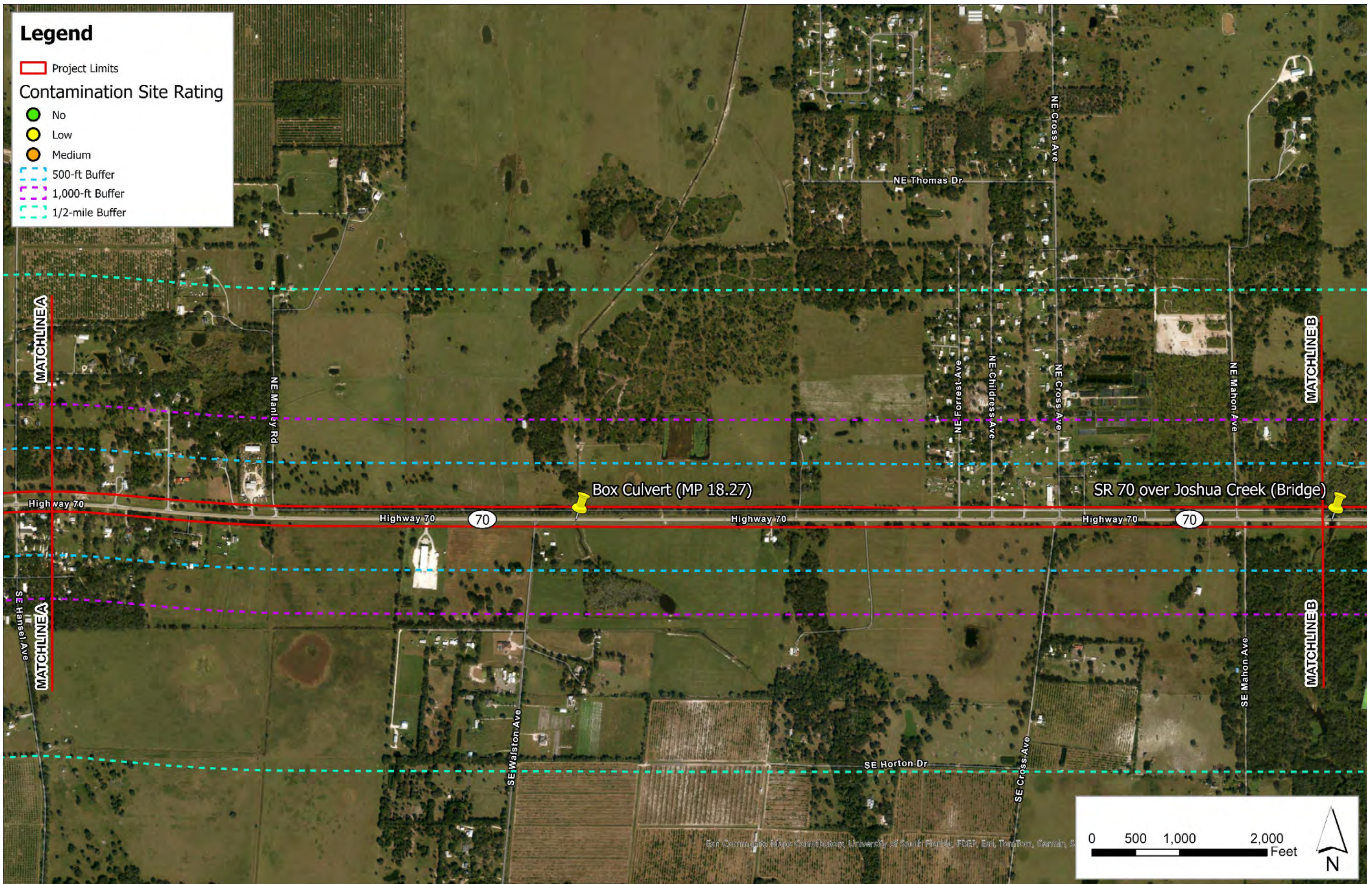
## **Appendix K – Contamination Maps**





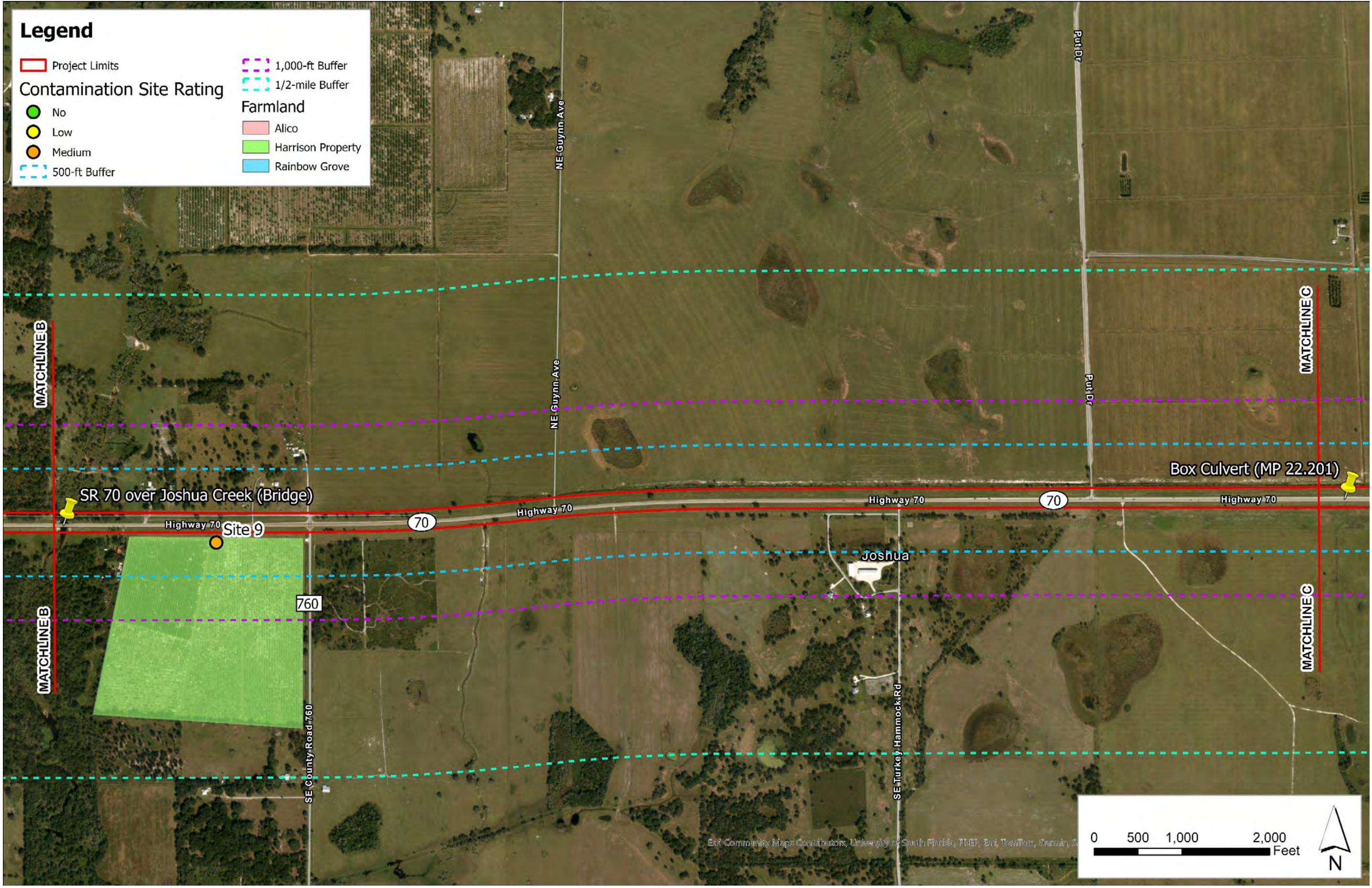
Appendix K – Contamination Maps





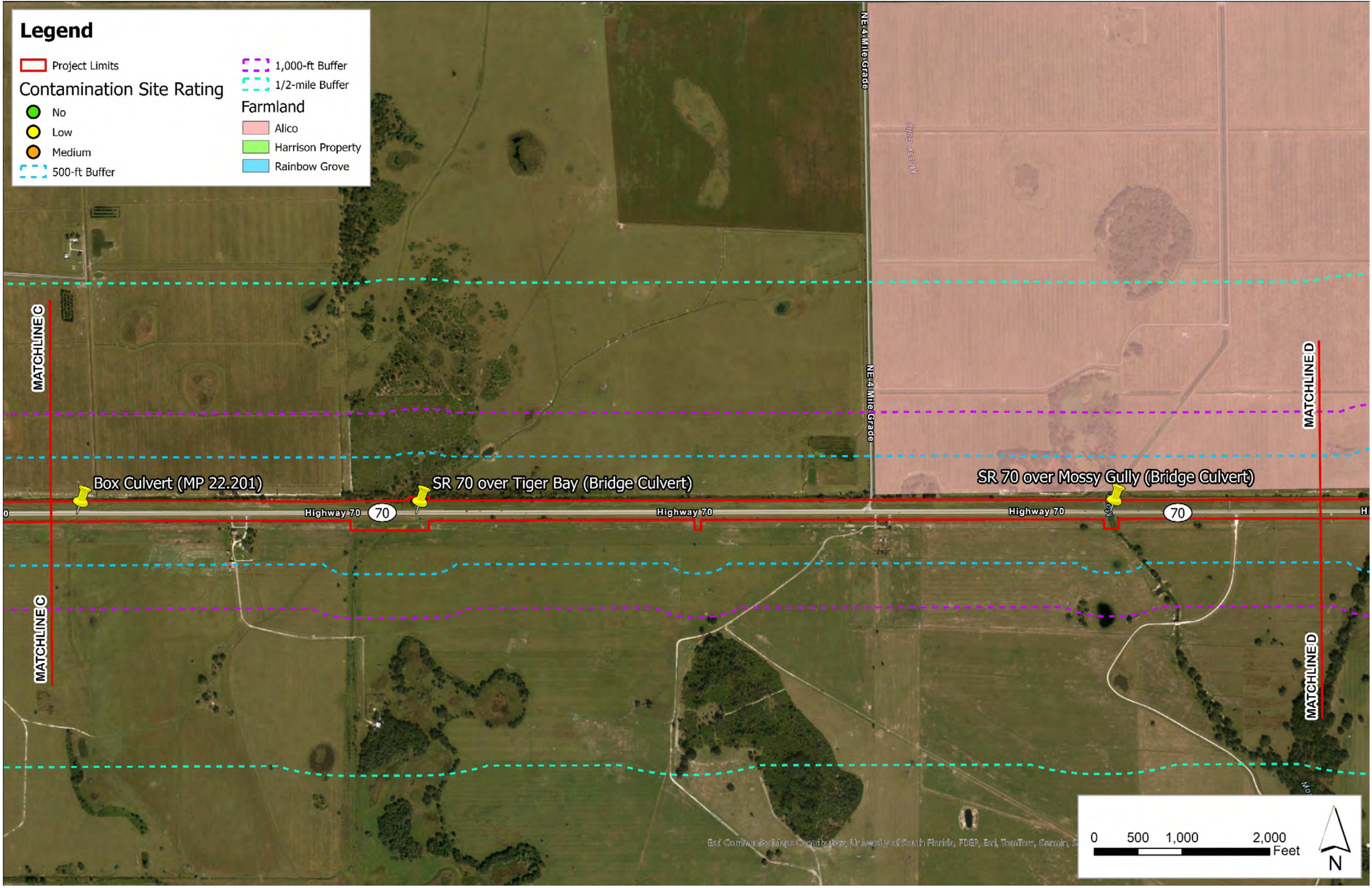
Appendix K – Contamination Maps





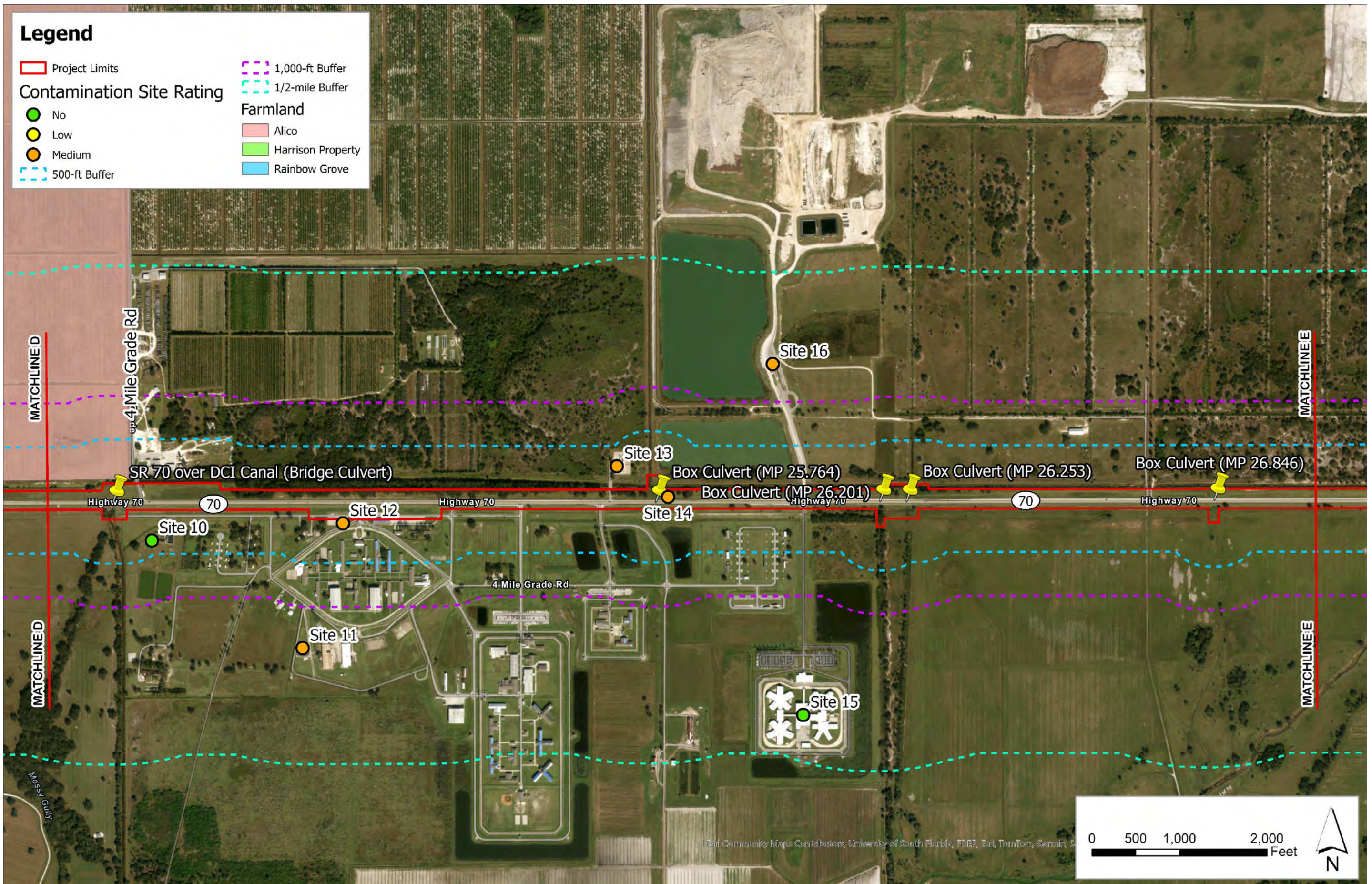
Appendix K – Contamination Maps





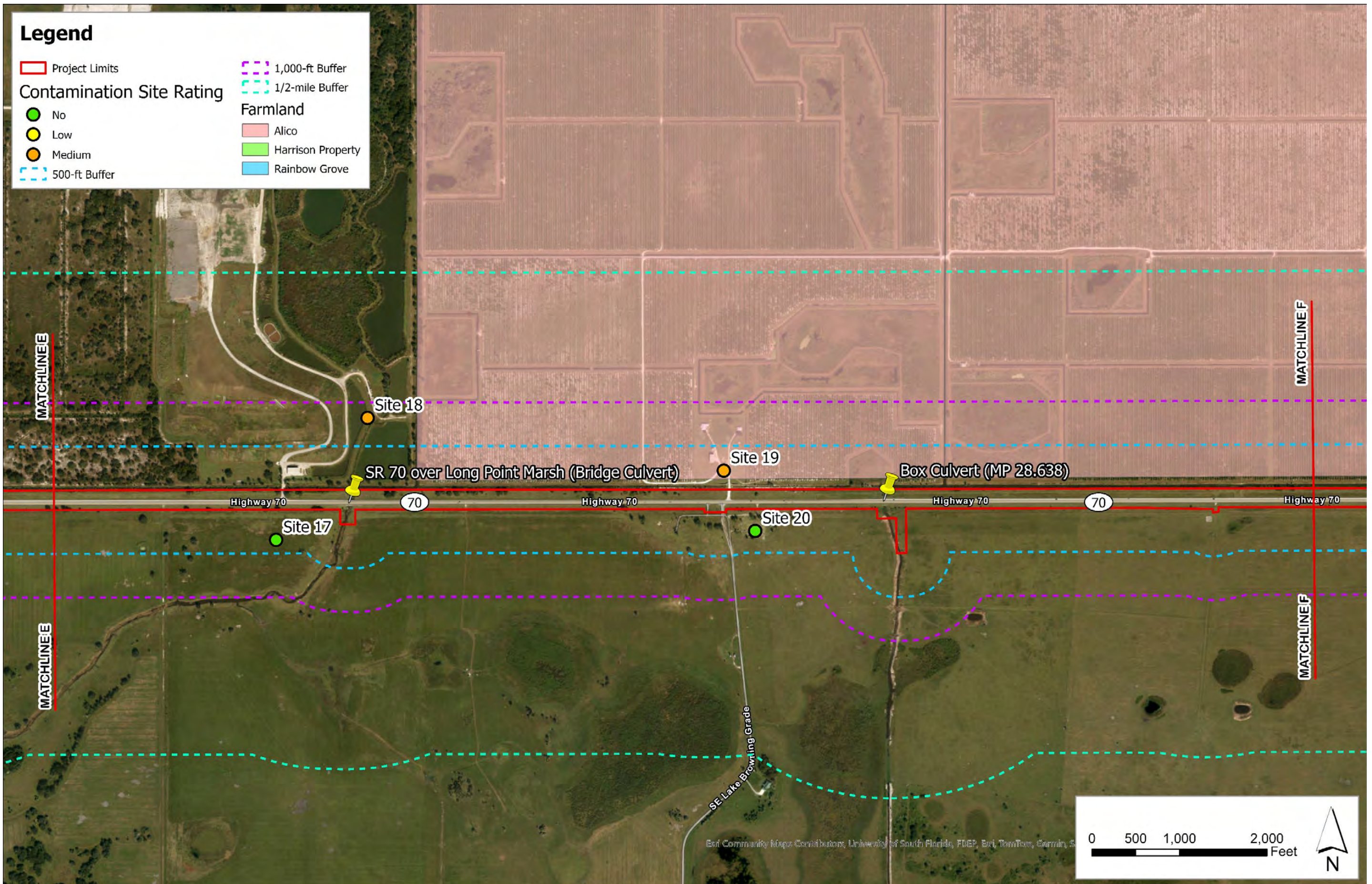
Appendix K – Contamination Maps





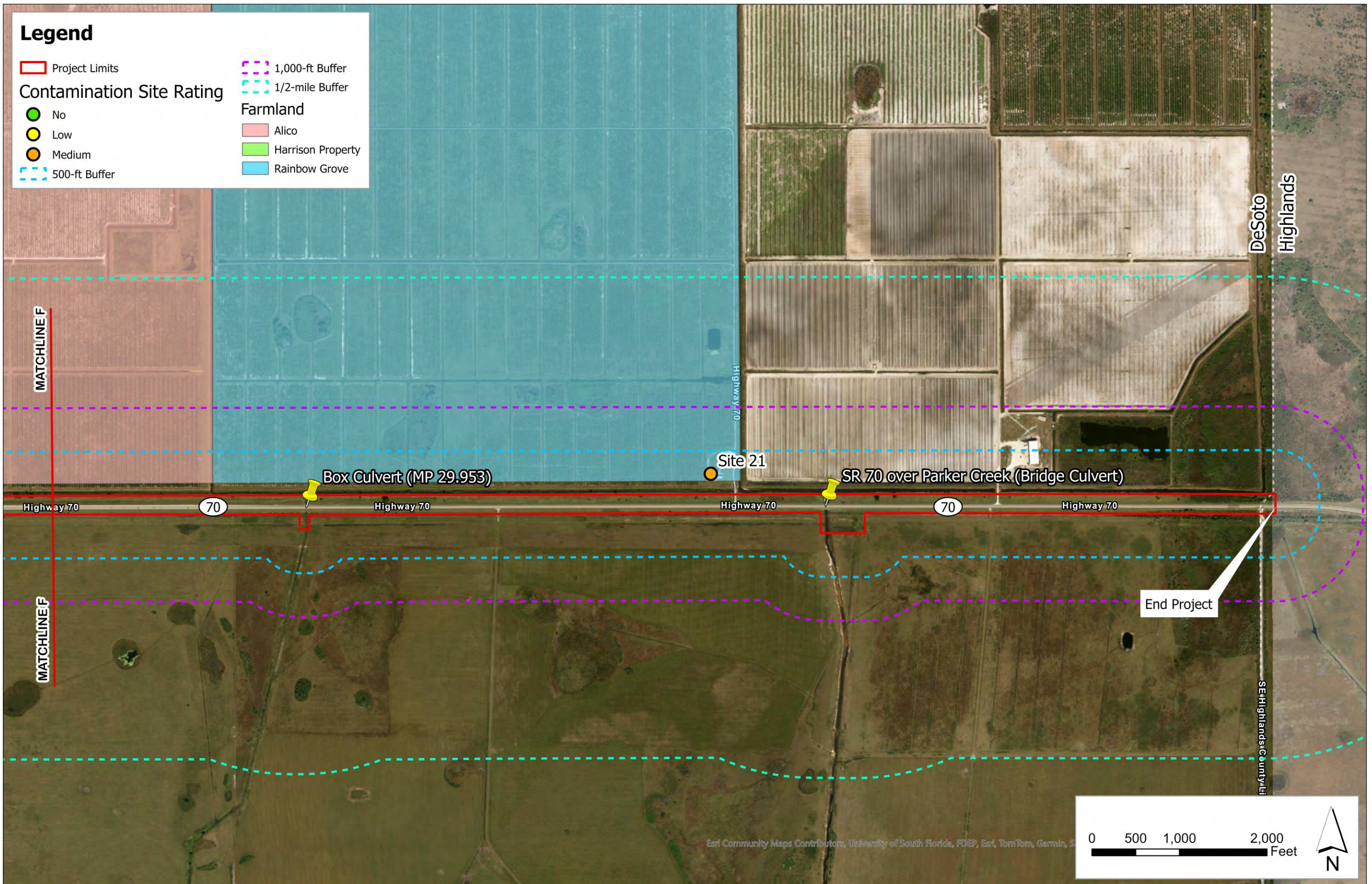
Appendix K – Contamination Maps





Appendix K – Contamination Maps





Appendix K – Contamination Maps



## **Appendix L – Supporting FDEP Database Report Figures**



Site 7 – Murphy US #6902

FDEP Facility ID: 9805491

2769 SE Hwy 70

Arcadia, FL 34266



**T.R.F.**  
*"Texas Rural Fire"*  
**Michael MacDonald**  
**Murphy USA**  
**Summary Report**

Job Number: **2024-0415-01**

Murphy Store Number: 6902  
2769 S.E. Highway 70  
Arcadia, FL 34266  
(863) 491-5065

DATE: April 15th, 2024

ACTION TAKEN:

Monday, April 15th, 2024

1450 hours: Murphy NCC called TRF about a spill at site 6902, Arcadia, FL. A carrier was delivering fuel when a customer drove over the drop tube causing it to break and creating a spill of regular unleaded gasoline. Gas spilled into drain.







1450 hours: TRF and Ryan Pederson conference called store to confirm a drain was impacted. Store advised fire dept is onsite and estimating 30-40 gallons gasoline spilled in the drain. Ryan informed store to get all drivers info from driver who ran over drop tube, store advised the police are handling that and the store has the report number from police.

1500 hours: TRF dispatched crew to site for cleanup. A vac truck was also dispatched to clean the drain.

1502 hours: Aldo Diaz with Murphy USA emailed the following update:  
SPATCO has been dispatched to check the integrity of the unleaded drop tube. WO 69627582

1515 hours: TRF emailed the following update:  
I have dispatched crew for cleanup of the spill and drain. Store advised fire department estimated spill in the drain of 30-40 gallons RUL. When you can please dispatch a work order in Verisae for me. I am calling PPM now to advise them for state reporting.

1520 hours: TRF called Valerie Laroche with PPM and updated her on spill conditions and to report it to the state. TRF advised Valerie they will update her throughout the cleanup process.

1700 hours: Crew has arrived on scene and checked in with store personnel. Cleanup is underway. Vac truck is about 30 minutes out and 2 drains are affected but it did not leave the drain.

1705 hours: TRF called PPM and updated them that 2 drains were impacted.

1900 hours: Crew has cleaned spill, placed absorbent into stores waste drum onsite. Drain was cleaned and flushed and waste being removed for disposal.



1905 hours: TRF updated PPM that there was approximately 70 gallons RUL in the drain and another 10 gallons spilled around drop tube cleaned with absorbent.

2030 hours: Crew has checked out with store personnel and is now off site.

2032 hours: TRF advised PPM that Heidi with DEP requested a DRF report be filed and emailed to her at: [Heidi.Hoffman@Floridadep.gov](mailto:Heidi.Hoffman@Floridadep.gov)

2050 hours: Valerie emailed Ryan Pederson with Murphy USA a completed DRF form to be signed by him.

2218 hours: Ryan Pederson with Murphy USA emailed the signed DRF form back to us and also emailed it to Heidi direct.

Spill estimated at 80 gallons gasoline, 2 drains impacted. Absorbent Waste left onsite in stores drum. Liquid waste from drains removed for disposal.

All times listed in CST.

Spill Complete / End of report

*Michael MacDonald*  
*Texas Rural Fire*





Michael MacDonald &lt;txruralfire1@gmail.com&gt;

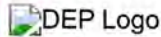
**Public Notice of Pollution - Initial Notice**

1 message

no-reply@dep.state.fl.us &lt;no-reply@dep.state.fl.us&gt;

Mon, Apr 15, 2024 at 6:33 PM

To: txruralfire1@gmail.com, Valerie.Laroche@ppmco.com

**FLORIDA DEPARTMENT OF  
Environmental Protection****Ron DeSantis**

Governor

Marjory Stoneman Douglas Building  
3900 Commonwealth Boulevard  
Tallahassee, Florida 32399-3000**Jeanette Nuñez**

Lt. Governor

**Shawn Hamilton**

Secretary

**Pollution Notice**

Thank you for submitting a Public Notice of Pollution for a reportable Incident in compliance with Section 403.077, F.S.

Your DEP Incident ID is **23778**. Please use this ID during any future correspondence with the Department concerning this Incident.

To update the information you have entered please click the link the below:

[Update My Notice](#)

**Type of Notice:** Initial Report

**Date of Notice:** 04/15/2024

**Incident Information**

**Name of Incident:** Murphy USA No. 6902

**State Watch Office Case Number:** 20243253

**Start of Incident:** 04/15/2024 03:50 PM

**End of Incident:**

**Incident Description**

Carrier driver was delivering fuel during a standard fuel drop at the RUL UST when a customer ran over the drop tube with their vehicle. The DeSoto County Fire Department was dispatched to the site along with the emergency responder (ACT Environmental). Initially approximately 30-40 gallons of regular unleaded gasoline was discharged into the storm drain vault box, impacting 2 of the drains to the south and west of the tank pit. DeSoto Police Department was also present



onsite and customer was put in custody while the incident was being investigated. The emergency responder was able to vacuum the drains prior to the fuel entering the retention pond. Approximately 70 gallons were removed from the drain and another 10 gallons removed topside, totaling to 80 gallons of fuel discharged at the site.

**Incident Location****Facility/Installation Name:** Murphy USA No. 6902**Address Line 1:** [2769 Southeast Highway 70](#)**Address Line 2:****Directions:****City:** Arcadia**State:** FL**Zip Code:** 34266**Coordinates (in decimal degrees):**

Lat: 27.20808659464602, Long: -81.82752939158354

**[Click to view Incident Location](#)****Impacted Counties:** DeSoto**Updated Impact:****Incident Reported By****Name:** Michael McDonald**Title:** Fire Chief**Phone:** (512) 712-0607**Ext:****E-mail Address:** [txruralfire1@gmail.com](mailto:txruralfire1@gmail.com)**Relationship:** Operator of the Facility/Installation**On-Site Contact****Name:** Valerie Laroche**Phone:** (407) 461-8553**Ext:****E-mail Address:** [Valerie.Laroche@ppmco.com](mailto:Valerie.Laroche@ppmco.com)

To view a list of all received Public Notices of Pollution or to modify your e-mail subscription settings, please click the link below:

[Public Notice of Pollution](#)

Florida Department of Environmental Protection

noname  
50K





# Department of Environmental Protection

2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

## DISCHARGE REPORT FORM

DEP Form: 62-761.900(1)

Form Title: Discharge Report Form

Effective Date: June 2023

Incorporated in Rule 62-761.405, F.A.C.

Complete all applicable blanks, and submit copies of any analytical or field test results confirming contamination to soils, surface water, or groundwater to the County via email or mail.

Facility ID Number (If Registered): 14/9805491 Date of Form Completion: 4/15/2024 Date of Discovery: 4/15/2024

Facility Name: Murphy USA #6902 County: DeSoto

Facility (Property) Owner: Murphy Oil USA Inc. Telephone Number: 863-491-5065

Owner Mailing Address: 200 E Peach Street, El Dorado, AR 71730

Location of Discharge (Facility Street Address): 2769 SE Highway 70, Arcadia, FL 34266 Lat/Long: \_\_\_\_\_

Date of receipt of any test or analytical results confirming a discharge: n/a Estimated number of gallons discharged: 80 gallons

### Discharge affected: (Check all that apply)

☐ Soil ☐ Groundwater ☐ Surface water (water body name) \_\_\_\_\_  
☐ Drinking water well(s) ☐ Shoreline ☒ Other (specify) Storm Drains

### Evidence of discharge: (Check all that apply)

☐ Visual observation of sheen ☐ Results or receipt of results of analytical tests ☐ Stained soils  
☐ Visual observation of free product ☒ Spill or vehicle overflow > 25 gallons to a pervious surface ☐ Other (explain in comments)

### Method of discovery and confirmation of discharge: (Check all that apply, see rule language explanation on instructions for this form)

☒ Visual observation ☐ Closure/Closure sampling assessment ☐ Surface water analytical results  
☐ Groundwater analytical results ☐ Soil analytical results ☐ Other (specify) \_\_\_\_\_

### Type of regulated substance discharged: (Check all that apply)

☒ Gasoline ☐ Jet fuel ☐ Mineral acids (ASTs)  
☐ Diesel ☐ Used/waste oil ☐ Ammonia compound ☐ Chlorine compound  
☐ Heating oil ☐ New motor/lube oil ☐ Biofuel blends  
☐ Kerosene ☐ Pesticide ☐ Unknown  
☐ Aviation gas ☐ Grade 5 & 6 residual oils ☐ Other (specify) \_\_\_\_\_  
☐ Hazardous substance (USTs) – write name or Chemical Abstract Service (CAS) #: \_\_\_\_\_

### Discharge originated from a: (Check all that apply)

☐ Tank ☐ Other secondary containment ☐ Railroad tankcar  
☐ Piping ☐ Fitting or pipe connection ☐ Barge, tanker ship, or other vessel  
☐ Spill bucket ☐ Valve ☐ Pipeline  
☐ Dispenser ☒ Tank truck ☐ Drum  
☐ Piping sump ☒ Vehicle or customer vehicle ☐ Unknown  
☐ Dispenser sump ☐ Aircraft ☐ Other (specify) \_\_\_\_\_

### Cause of the discharge: (Check all that apply)

☐ Spill ☐ Material failure (crack, split, etc.) ☐ Collision ☐ Weather  
☐ Overflow ☐ Material incompatibility ☒ Vehicle accident ☐ Human error  
☐ Corrosion ☐ Improper installation ☐ Fire/explosion ☐ Unknown  
☐ Puncture ☐ Loose connection ☐ Vandalism ☐ Other (specify) \_\_\_\_\_

### Actions taken in response to the discharge and additional comments:

Carrier driver was delivering fuel during a standard fuel drop at the RUL UST when a customer ran over the drop tube with their vehicle. The DeSoto County Fire Department was dispatched to the site along with the emergency responder (ACT Environmental). Initially approximately 30-40 gallons of regular unleaded gasoline was discharged into the storm drain vault box, impacting 2 of the drains to the south and west of the tank pit. The emergency responder was able to vacuum the drains prior to the fuel entering the retention pond. Approximately 70 gallons were removed from the drain and another 10 gallons removed topside, totaling to 80 gallons of fuel discharged at the site.

Financial Responsibility Mechanism: \_\_\_\_\_ For Insurance - Name of Insurance Company: \_\_\_\_\_

Agencies notified (as applicable): \_\_\_\_\_ Policy Period: \_\_\_\_\_

☒ Fire Department ☐ County Program ☐ District Office ☒ State Watch Office ☐ National Response Center  
800-320-0519 800-424-8802

To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.

Ryan Pederson

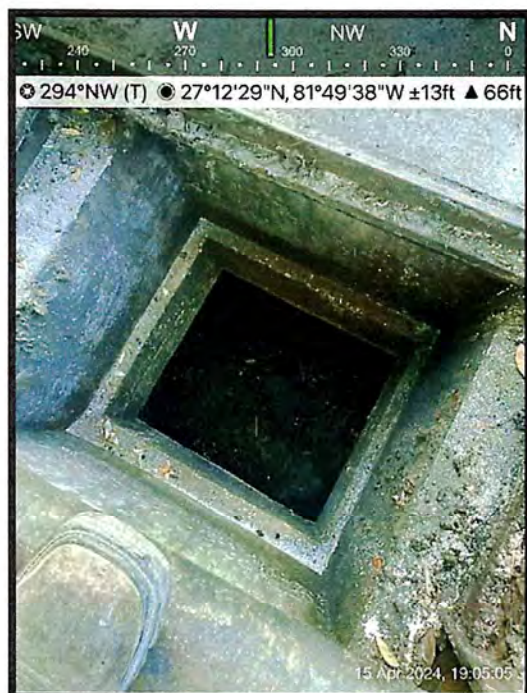
Printed Name of Owner, Operator or Authorized Representative

Ryan Pederson

Signature of Owner, Operator or Authorized Representative

Digitally signed by Ryan Pederson  
Date: 2024.04.15 21:17:38 -06'00'

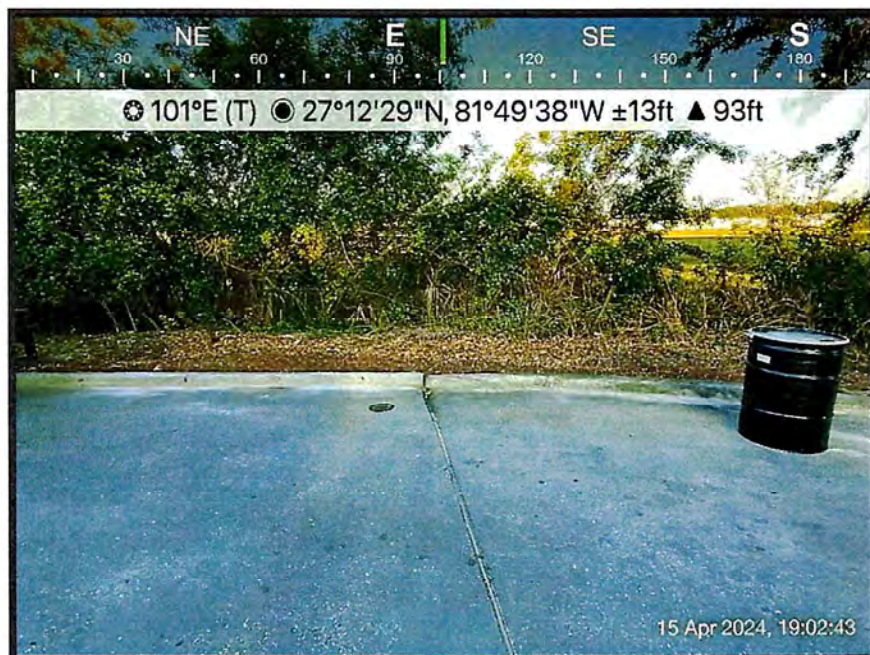
















NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 800-226-0911	4. Waste Tracking Number <b>603317</b>
5. Generator's Name and Mailing Address MURPHY USA 2150 SPARKMAN DR NW HUNTSVILLE, AL 35810 Generator's Phone: 755-703-0318		Generator's Site Address (if different than mailing address) MURPHY USA # 6902 2769 SE STATE ROAD 70 ARCADIA, FL 34266			
6. Transporter 1 Company Name A-C-T ENVIRONMENTAL & INFRASTRUCTURE INC.		U.S. EPA ID Number FLR000011049			
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address A-C-T ENVIRONMENTAL & INFRASTRUCTURE INC. 1675 WEST MAIN STREET BARTOW, FL Facility's Phone: 800-633-2000		U.S. EPA ID Number FLR000011049			
9. Waste Shipping Name and Description		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
1. UN1203, GASOLINE MIXTURE, 3, PG II, (PETROLEUM CONTACT WATER), ERG# 128		001 TT		300	G
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information PROJECT #: 30236 <b>APPROX 23465-FR TRUCK 1410</b> <b>+ DRUM</b> <b>TRANSFERRED TO TOTE - CONTAINERS 30236-001 + 002</b>					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Officer's Printed/Typed Name <b>Agent for generator / Jason Huffman</b>		Signature 		Month Day Year <b>04 15 24</b>	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of export/exit		Date leaving U.S.	
16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name <b>Aaron Sutter</b>		Signature 		Month Day Year <b>4 15 24</b>	
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
17. Discrepancy 17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
17b. Alternate Facility (or Generator)		Manifest Reference Number		U.S. EPA ID Number	
Facility's Phone				Month Day Year	
17c. Signature of Alternate Facility (or Generator)				Month Day Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a Printed/Typed Name <b>Amir Medeiros</b>					
Signature 				Month Day Year <b>4 16 24</b>	

169-BLC-O 6 10468 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR



Site 11 – Desoto Correctional Inst Work Camp and Annex Part A-2002

FDEP Facility ID: ERIC\_6124

13617 SE Hwy 70

Arcadia, FL 34266





AECOM  
7800 Congress Avenue.  
Suite 200  
Boca Raton, Florida 33126  
[www.aecom.com](http://www.aecom.com)  
561-994-6500

December 20, 2017

Ms. Kelly Crain  
State of Florida  
Department of Environmental Protection  
Site Investigation Section  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

**Subject: Desoto Correctional Institution  
13617 SE HWY 70, Arcadia, Florida  
2017 2<sup>nd</sup> Semiannual Natural Attenuation Monitoring (NAM) Report  
FDEP Site #26SL-1  
Task Assignment #SL-004E**

Dear Ms. Crain:

This 2<sup>nd</sup> Semiannual Natural Attenuation Monitoring (NAM) Report is prepared as the second deliverable (of two) under the current task assignment (TA) #SL-004E. A copy of the TA is attached as **Appendix A**. This report provides a summary of groundwater sampling performed for the 2<sup>nd</sup> semiannual sampling episode at the site, sampling procedures, laboratory analytical results, and recommendations for future work.

## **Summary of Recent Work**

AECOM previously provided environmental services for the Florida Department of Environmental Protection (FDEP) State Owned Lands Cleanup Program (SOLCP) at the above-referenced site. These services included assessment of the petroleum impacted soils and groundwater, followed by soil excavation at the Desoto Correctional Institution (DCI), Work Camp Diesel Auto Shop Building, also referred to as area of concern (AOC) #3. A site plan of AOC #3, including monitoring well locations, is attached as **Figure 1**.

The most recent phase of work was a year of quarterly groundwater monitoring conducted in the five monitoring wells MW006 through MW010 during 2016. This work was completed under the previous TA SL-004D, issued on November 12, 2015.

AECOM conducted the Quarter 4 (2016) groundwater sampling in October 2016. The groundwater analytical results indicated that the isopropyl benzene and naphthalene concentrations in MW006 exceeded the Chapter 62-777 Florida Administrative Code (FAC) groundwater natural attenuation default concentration (NADC). The concentrations of the three naphthalene compounds in MW006 exceeded the Chapter 62-777 FAC groundwater cleanup target levels (GCTL). The concentrations of all other tested analytes in MW006 were below the GCTLs. The concentrations of all other tested and reported analytes in monitoring wells MW006 through MW010 were below the GCTLs. AECOM prepared the Quarter 4 NAM Report in December 2016. The report recommended that monitoring continue for 2017. The FDEP approved the Quarter 4 report on January 3, 2017.



Following AECOM's discussion with FDEP of the 2016 groundwater sampling data, the FDEP requested that semiannual sampling be conducted at the site for 2017. AECOM submitted a proposal for semiannual monitoring on January 25, 2017. This was approved with the award of the present TA #SL-004E on January 26, 2017.

AECOM submitted the 1<sup>st</sup> Semiannual NAM Report to FDEP on July 7, 2017. The report stated that the concentrations of isopropyl benzene and naphthalene in MW006 exceeded the Chapter 62-777 FAC groundwater NADCs. The concentrations of 1-methylnaphthalene and 2-methylnaphthalene in MW006 exceeded the Chapter 62-777 FAC GCTLs. The concentrations of all other tested analytes in MW006 were below the GCTLs. The report recommended that NAM continue for the 2<sup>nd</sup> half of 2017. The FDEP approved the report in an email dated July 18, 2017.

## Groundwater Sampling – 2<sup>nd</sup> Semiannual Sampling Event

AECOM staff mobilized to the site on November 1, 2017 to obtain access to the AOC #3 work areas and sample groundwater from monitoring wells MW006 through MW010. The groundwater samples were collected for analysis of volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs). The wells were found to be accessible and in good condition during this site visit.

Groundwater sampling was conducted in accordance with the Standard Operating Procedures (SOP) outlined in FDEP-SOP-001/01 FS 2200 (groundwater sampling). General groundwater sample collection procedures were:

- A peristaltic pump was used to purge groundwater at each well location. A flow-through cell, containing multi-meter probes, was connected to a peristaltic pump. The multi-meter probes were used to measure field parameters (temperature, pH, specific conductance and dissolved oxygen) and to track stabilization of the groundwater physical chemistry during well purging. A turbidity meter was used to measure the turbidity.
- Groundwater samples were collected using quiescent sampling techniques. Samples for SVOCs were collected from the outflow end of the pump effluent line. The VOC samples were collected last by directly discharging the samples from the outflow tubing and into the lab vials. Copies of monitoring well sampling logs for the 2<sup>nd</sup> semiannual sampling event are attached as **Appendix B**.

Groundwater samples from each location were analyzed by TestAmerica, Inc., a state-certified fixed-based laboratory for the following target compounds:

- Volatile Organic Aromatics (VOAs)
- Volatile Organic Halocarbons (VOHs)
- Polynuclear Aromatic Hydrocarbons (PAHs)



## Groundwater Analytical Results – 2<sup>nd</sup> Semiannual Sampling Event

The groundwater analytical results for the 2<sup>nd</sup> semiannual sampling event indicated that the concentrations of isopropyl benzene and naphthalene in MW006 exceeded the Chapter 62-777 FAC groundwater NADCs. The concentrations of 1-methylnaphthalene and 2-methylnaphthalene in MW006 exceeded the Chapter 62-777 FAC GCTLs. The concentrations of all other tested analytes in MW006 were below the GCTLs. Chloroform and dichlorobromomethane were detected in MW007 and exceeded the GCTLs. These two compounds, however, were detected at concentrations below the NADCs. AECOM discussed the chloroform and dichlorobromomethane results with FDEP in an email dated November 29, 2017 and recommended that MW007 be resampled to confirm these two compounds. The FDEP responded on November 29, 2017 and stated that resampling was not required and to include the chloroform and dichlorobromomethane results in this 2<sup>nd</sup> Semiannual NAM Report. The concentrations of all other tested and reported analytes in monitoring wells MW007 through MW010 were below the GCTLs.

The current analytical results for VOCs are consistent with the May 2017 (1<sup>st</sup> Semiannual) sampling results. The general PAH results in MW006 for the 2<sup>nd</sup> semiannual sampling event showed fluctuations compared to the PAH results for May 2017. The PAH results in MW0008 through MW010 for the 2<sup>nd</sup> semiannual sampling event compared closely with those for the 1<sup>st</sup> Semiannual sampling event. Historical and current groundwater analytical results for MW006 through MW010 are shown on the attached **Figure 2** and on the attached **Tables 1-A through 1-D**.

AECOM conducted a quality control review of the laboratory data. All samples arrived at the lab in good condition and properly preserved within temperature requirements. All samples were analyzed within the required holding times.

The lab reported that the initial run for the samples had detects for methylene chloride in all the samples. This was due to “a contaminated internal standard”. Therefore, the lab immediately reanalyzed all the samples for the same analyses as for the original run. The reanalyzed samples did not reveal detections of methylene chloride. The lab report for these samples did not indicate that lab interference was observed during the sample analysis run. Only the results for the reanalyzed samples are discussed below.

The analyte concentrations for MW006 and the duplicate sample correlated closely and indicated that sample collection methods in the field were not likely to negatively affect the quality of laboratory analyses for the 2<sup>nd</sup> semiannual event groundwater samples. A dilution factor of 20 was applied to the three naphthalene compound analyses for the MW006 and duplicate samples to bring the analyte concentrations within the analysis instrument calibration range. The laboratory report case narrative indicated that the “high concentrations of naphthalene, 1-methylnaphthalene and 2-methylnaphthalene” in the sample run did not allow the mass-spec (MS) matrix spike to be “evaluated for accuracy”.

All tested VOC and PAH analytes in the two laboratory method blanks were not detected above the reporting limits. The precision of the lab control samples was within the control limits for all tested analytes. A copy of the 2<sup>nd</sup> semiannual event groundwater laboratory analytical report is attached as **Appendix C**.



## Groundwater Elevation Data

AECOM collected depth to water readings from the onsite designated monitoring wells MW006 through MW010 on November 1, 2017. These data were used to calculate and plot updated groundwater elevations and determine the current groundwater flow direction at the site. The updated groundwater elevation data indicate that the current apparent groundwater flow direction is to the northwest. The current groundwater elevation data are included on **Table 1**. The current groundwater elevation data are shown on the attached **Figure 3**.

## Recommendations

Based on the November 2017 semiannual NAM results, AECOM recommends that semiannual monitoring continue for 2018 for the source well MW006 and for the boundary wells MW007 through MW010. The boundary wells will be sampled to document that the existing plume is not migrating from MW006. Due to the current groundwater flow to the northwest, AECOM recommends the installation of 1 shallow monitoring well (MW-11), screened from 2 to 12 feet below grade. This well is to be located near the southeast corner of the auto shop building and will be used to delineate VOC concentrations to the southeast. It is also recommended to conduct 1 complete round of sampling for the new well and the existing wells (MW001 through MW010) to determine if the current groundwater plume remains delineated in all directions. It is recommended that the updated sampling data be used to decide if NAM should continue or if a limited active remediation strategy should be applied for the groundwater contaminants in the vicinity of MW006. A proposal will be prepared upon FDEP's agreement of the above recommendations.

If you have any questions or require additional information, please do not hesitate to call me at (561) 862-1027.

Sincerely,




Matthew Holbrook, PG  
Environmental Scientist III

Attachments:     Figure 1 – Site Plan  
                         Figure 2 – Groundwater Analytical Data 2<sup>nd</sup> Semiannual Event  
                         Figure 3 - Groundwater Elevation Data 2<sup>nd</sup> Semiannual Event  
                         Tables 1A – 1D – Groundwater Analytical Data  
                         Table 2 – Groundwater Elevation Data  
                         Appendix A - Copy of Current Task Assignment  
                         Appendix B – Groundwater Sampling Logs  
                         Appendix C – Laboratory Analytical Report



## Certification

I, Stephen O. Starke, P.G. #1560, certify that I hold an active license in the State of Florida and am competent through education or experience to provide the geological services contained in this report. I further certify that in my professional judgment this report was prepared by me or under my responsible charge. Moreover, I certify that AECOM Technical Services Inc., (AECOM) holds an active Geology Business license (#GB329) authorizing the firm to provide geological consulting services.

  
Stephen O. Starke, PG, CHMM, LEPA, REPA  
License #1560 Date: 12/21/17

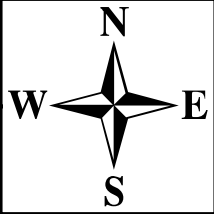




## Figures



Well Installation Dates	
9/23/2003	MW001
11/20/2003	MW002, MW004 & MW005
4/15/2013	MW003R
6/11/2014	MW006 & MW007
10/27/2014	MW008, MW009 & MW010



Dirt Road

Fence

Fence

MW002

Former UST  
Location

MW010

Parts Washing  
Sink

MW007  
MW005

MW003R

MW001

MW008

MW006

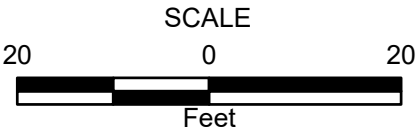
Former  
Excavation  
Area

Auto Shop  
Building

Concrete  
Apron

MW009

MW004



Dirt Road

Legend  
Existing Monitoring Well

SITE PLAN

Desoto Correctional  
Institution  
(AOC#3)

FIGURE 1

AECOM



MW002				
Sample Location	MW002			
Sample Date	5-Dec-03	16-Feb-07	23-Jan-13	23-Jul-13
Sample Depth	2-12 ft BLS	2-12 ft BLS	2-12 ft BLS	2-12 ft BLS
ALL VOCs	ug/l			
1-Methylnaphthalene	ug/l	NA	0.359	0.56
2-Methylnaphthalene	ug/l	NA	0.276	0.64
Naphthalene	ug/l	1 U	1.19	2.8
ALL OTHER PAHs	ug/l			0.040 U

MW007						
Sample Date	25-Jan-16	25-Apr-16	25-Jul-16	18-Oct-16*	17-May-17	1-Nov-17
Sample Depth	15-20 ft BLS	15-20 ft BLS	15-20 ft BLS	15-20 ft BLS	15-20 ft BLS	15-20 ft BLS
ALL VOCs *	µg/L					
1-Methylnaphthalene	µg/L	0.074 U	0.074 U	0.22 U	0.23 U	0.22 U
2-Methylnaphthalene	µg/L	0.060 U	0.060 U	0.22 U	0.23 U	0.22 U
Naphthalene	µg/L	0.094 U	0.094 U	0.22 U	0.23 U	0.22 U
ALL OTHER PAHs	µg/L					

\* Except chloroform and dichlorobromomethane, which exceeded the GCTLs but were below the NADCs.

MW005				
Sample Location	MW005			
Sample Date	5-Dec-03	16-Feb-07	23-Jan-13	23-Jul-13
Sample Depth	2-12 ft BLS	2-12 ft BLS	2-12 ft BLS	2-12 ft BLS
Total Xylenes	2 U	1.04	0.44 U	0.44 U
MTBE	1 U		0.13 U	0.13 U
ALL OTHER VOCs	ug/l			
Naphthalene	ug/l	1 U	0.052	0.040 U
ALL OTHER PAHs	ug/l			0.080 I

MW010						
Sample Date	25-Jan-16	25-Apr-16	25-Jul-16	18-Oct-16*	17-May-17	1-Nov-17
Sample Depth	25-30 ft BLS	25-30 ft BLS	25-30 ft BLS	25-30 ft BLS	25-30 ft BLS	25-30 ft BLS
Benzene	µg/L	0.65 I	0.50 U	0.50 U	0.50 U	0.50 U
Methy-tert-butylether	µg/L	0.44 U	0.44 U	0.54 I	0.44 U	0.52 I
ALL OTHER VOCs	µg/L					
Benzo(a)anthracene	µg/L	0.046 U	0.046 U	0.053 I	0.046 U	0.045 U
Benzo(b)fluoranthene	µg/L	0.034 U	0.034 U	0.046 I	0.046 U	0.045 U
Ideno(1,2,3-cd)pyrene	µg/L	0.043 U	0.043 U	0.052 I	0.045 U	0.045 U
2-Methylnaphthalene	µg/L	0.082 I	0.060 U	0.27 I	0.23 U	0.22 U
Phenanthrene	µg/L	0.036 U	0.036 U	0.54	0.23 U	0.22 U
ALL OTHER PAHs	µg/L					

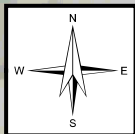
MW003 / MW003R				
Sample Location	MW003		MW003R	
Sample Date	5-Dec-03	16-Feb-07	16-Apr-13	23-Jul-13
Sample Depth	2-12 ft BLS	2-12 ft BLS	2-12 ft BLS	2-12 ft BLS
Ethylbenzene	ug/l	1 U	2.03	0.17 I
Total Xylenes	ug/l	2 U	3.5	0.44 U
MTBE	ug/l	1 U		0.13 U
ALL OTHER VOCs	ug/l		0.15 I	
Acenaphthylene	ug/l	NA	0.279	0.025 U
1-Methylnaphthalene	ug/l	NA	0.18	0.22 J
2-Methylnaphthalene	ug/l	NA	0.252	0.39 J
Naphthalene	ug/l	1 U	2.55	1.2 J
ALL OTHER PAHs	ug/l			0.39

MW008						
Sample Date	25-Jan-16	25-Apr-16	25-Jul-16	18-Oct-16*	17-May-17	1-Nov-17
Sample Depth	25-30 ft BLS	25-30 ft BLS	25-30 ft BLS	25-30 ft BLS	25-30 ft BLS	25-30 ft BLS
ALL VOCs	µg/L					
1-Methylnaphthalene	µg/L	0.074 U	0.074 U	0.22 U	0.23 U	0.22 U
2-Methylnaphthalene	µg/L	0.060 U	0.060 U	0.22 U	0.23 U	0.22 U
Naphthalene	µg/L	0.094 U	0.094 U	0.22 U	0.23 U	0.22 U
ALL OTHER PAHs	µg/L					

MW009						
Sample Date	25-Jan-16	25-Apr-16	25-Jul-16	18-Oct-16*	17-May-17	1-Nov-17
Sample Depth	25-30 ft BLS	25-30 ft BLS	25-30 ft BLS	25-30 ft BLS	25-30 ft BLS	25-30 ft BLS
ALL VOCs	µg/L					
1-Methylnaphthalene	µg/L	0.074 U	0.074 U	0.24 U	1	0.22 U
2-Methylnaphthalene	µg/L	0.090 I	0.060 U	0.24 U	1.3	0.22 U
Naphthalene	µg/L	0.094 Q U	0.094 U	0.31 I	0.22 U	0.22 U
ALL OTHER PAHs	µg/L			0.26 I		

MW004				
Sample Location	MW004			
Sample Date	5-Dec-03	16-Feb-07	23-Jan-13	23-Jul-13
Sample Depth	2-12 ft BLS	2-12 ft BLS	2-12 ft BLS	2-12 ft BLS
Toluene	ug/l	1 U		0.30 I
MTBE	ug/l	3		0.13 U
ALL OTHER VOCs	ug/l			
2-Methylnaphthalene		NA	0.054 U	0.031 U
Naphthalene	ug/l	1 U	0.022 U	0.040 U
ALL OTHER PAHs	ug/l			0.038 I

MW006						
Sample Date	25-Jan-16	25-Apr-16	25-Jul-16	18-Oct-16*	17-May-17	1-Nov-17
Sample Depth	15-20 ft BLS	15-20 ft BLS	15-20 ft BLS	15-20 ft BLS	15-20 ft BLS	15-20 ft BLS
Ethylbenzene	µg/L	1.4	1.9	2.5	2.8	3.1
Total Xylenes	µg/L	0.50 U	0.81	0.50 U	0.88 I	1.5 I
Isopropylbenzene	µg/L	35	40	31	43	49
sec-butylbenzene	µg/L	7	10	8.8	10	11
n-butylbenzene	µg/L	18	22	20	28	27
n-propylbenzene	µg/L	94	110	85	120	110
ALL OTHER VOCs	µg/L					
Acenaphthene	µg/L	0.76	0.47	1	0.43 I	1
Acenaphthylene	µg/L	0.17 I	0.045 U	0.22 U	0.23 U	0.22 U
Dibenzo(a,h)anthracene	µg/L	0.050 U	0.050 U	0.039 I	0.034 U	0.032 U
Fluorene	µg/L	0.27	0.11 U	0.44 I	0.23 U	0.38 I
Ideno(1,2,3-cd)pyrene	µg/L	0.057 I	0.043 U	0.045 U	0.046 U	0.045 U
1-Methylnaphthalene	µg/L	95	1.7	120	69	100
2-Methylnaphthalene	µg/L	110	0.63	180	95	150
Naphthalene	µg/L	330	0.094 U	310	160	280
Phenanthrene	µg/L	0.036 U	0.036 U	0.5	0.23 U	0.22 U
ALL OTHER PAHs	µg/L					



Auto Shop Building

AECOM

LEGEND:

Bold text indicates analyte detected greater than the MDL or detected at specific concentration  
Indicates analyte was detected at a concentration greater than Ch. 62-777 FAC, NADC  
Indicates analyte was detected at a concentration greater than Ch. 62-777 FAC, GCTL  
Indicates all concentrations were reported below the laboratory method detection limits (MDL)

U - The analyte was reported at below the method detection limit.  
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.  
J - The analyte was reported at an estimated value.  
Q - The sample was held beyond the accepted holding time.



Monitoring Well/Direct Push Location



Monitoring Well Location

BLS - Below Land Surface  
NA - Not Analyzed  
µg/L - micrograms per liter  
\* - PAHs were sampled on 11/8/16.

SCALE:

10 0 10 20  
Feet

GROUNDWATER ANALYTICAL DATA  
2ND SEMIANNUAL SAMPLING EVENT

DESOTO CORRECTIONAL INSTITUTION - AOC#3  
13615 SE Highway 70  
Arcadia, DeSoto County, Florida



FIGURE 2





**AECOM**

**LEGEND:**  
Survey Date: May 17, 2017  
Gauging Date: November 1, 2017  
All elevation measurements are accurate to  $\pm 0.01$  ft.  
94.68 - Relative groundwater elevation in feet.  
\* Anomalous Reading  
→ Groundwater elevation contour.  
→ Current apparent groundwater flow direction.

Monitoring Well/Direct Push Location  
Monitoring Well Location  
BLS - Below Land Surface  
NA - Not Analyzed  
µg/L - micrograms per liter

**SCALE:**  
10 0 10 20  
Feet

**GROUNDWATER ELEVATION DATA  
2ND SEMIANNUAL SAMPLING EVENT**  
DESOTO CORRECTIONAL INSTITUTION - AOC#3  
13615 SE Highway 70  
Arcadia, DeSoto County, Florida

**FIGURE 3**



## Tables



Desoto Correctional Institution (AOC #3) - Groundwater Elevation Data

Table 2

Well # (Point ID)	Well Casing Diameter (Inches)	Depth of Screened Interval (Ft. BLS)	TOC Elevation*  (Feet)	18-Dec-03		23-Jan-13		16-Apr-13		23-Jul-13		12-Jun-14		29-Oct-14	
				Depth to Water (Feet)	Elevation (Feet)	Depth to Water (Feet)	Elevation (Feet)	Depth to Water (Feet)	Elevation (Feet)	Depth to Water (Feet)	Elevation (Feet)	Depth to Water (Feet)	Elevation (Feet)	Depth to Water (Feet)	Elevation (Feet)
MW001	0.5	2 to 12	9.89	2.29	7.60	-	-	3.48	6.41	0.00	9.89	3.58	6.31	2.58	7.31
MW002	0.5	2 to 12	10.08	2.405	7.68	3.86	6.22	4.10	5.98	0.72	9.36	3.95	6.13	3.30	6.78
MW003/3R	0.5	2 to 12	10.13 **	2.10	-	-	-	4.20	-	0.65	9.48	4.29	5.84	2.93	7.20
MW004	0.5	2 to 12	9.98	2.48	7.50	3.81	6.17	4.06	5.92	0.67	9.31	3.85	6.13	3.25	6.73
MW005	0.5	2 to 12	9.725	2.155	7.57	3.40	6.33	3.74	5.99	0.40	9.33	3.95	5.78	2.76	6.97
MW006	1.25	15 to 20	9.97 ***									4.20	5.77	3.17	6.80
MW007	1.25	15 to 20	9.47 ***									4.10	5.37	NS	NS
MW008	1.0	25 to 30	NS											3.30	NS
MW009	1.0	25 to 30	NS											3.28	NS
MW010	1.0	25 to 30	NS											3.36	NS

Well # (Point ID)	Well Casing Diameter (Inches)	Depth of Screened Interval (Ft. BLS)	TOC Elevation*  (Feet)	25-Jan-16		25-Apr-16		25-Jul-16		18-Oct-16	
				Depth to Water (Feet)	Elevation (Feet)	Depth to Water (Feet)	Elevation (Feet)	Depth to Water (Feet)	Elevation (Feet)	Depth to Water (Feet)	Elevation (Feet)
MW001	0.5	2 to 12	9.89	NG	NG	NG	NG	NG	NG	NG	NG
MW002	0.5	2 to 12	10.08	NG	NG	NG	NG	NG	NG	NG	NG
MW003/3R	0.5	2 to 12	10.13 **	NG	NG	NG	NG	NG	NG	NG	NG
MW004	0.5	2 to 12	9.98	NG	NG	NG	NG	NG	NG	NG	NG
MW005	0.5	2 to 12	9.725	NG	NG	NG	NG	NG	NG	NG	NG
MW006	1.25	15 to 20	9.97 ***	1.50	8.47	3.95	6.02	1.65	8.32	2.70	7.27
MW007	1.25	15 to 20	9.47 ***	1.50	7.97	2.60	6.87	1.25	8.22	2.60	6.87
MW008	1.0	25 to 30	NS	0.60	NS	1.78	NS	0.00	NS	0.00	NS
MW009	1.0	25 to 30	NS	1.60	NS	4.04	NS	1.35	NS	2.74	NS
MW010	1.0	25 to 30	NS	0.50	NS	2.43	NS	0.00	NS	0.00	NS

Notes:  
\* Based on arbitrary benchmark elevation of 10.00 feet  
\*\* TOC measured on July 23, 2013  
\*\*\* TOC measured on June 12, 2014  
Ft. BLS - feet below land surface  
TOC - top of casing  
NG - Not Gauged  
NS - Not Surveyed



**Desoto Correctional Institution (AOC #3) - Groundwater Elevation Data**  
**Table 2 (continued)**

Well # (Point ID)	Well Casing Diameter (Inches)	Depth of Screened Interval (Ft. BLS)	TOC Elevation*  (Feet)	17-May-17		1-Nov-17	
				Depth to Water (Feet)	Elevation (Feet)	Depth to Water (Feet)	Elevation (Feet)
MW001	0.5	2 to 12	NS	NG	-	NG	-
MW002	0.5	2 to 12	NS	NG	-	NG	-
MW003/3R	0.5	2 to 12	NS	NG	-	NG	-
MW004	0.5	2 to 12	NS	NG	-	NG	-
MW005	0.5	2 to 12	NS	NG	-	NG	-
MW006	1.25	15 to 20	100.31	5.74	94.57	1.75	98.56
MW007	1.25	15 to 20	100.37	5.67	94.70	1.50	98.87
MW008	1.0	25 to 30	100.22	5.54	94.68	1.72	98.50
MW009	1.0	25 to 30	100.25	5.86	94.39	1.38	98.87
MW010	1.0	25 to 30	100.09	5.29	94.80	3.50	96.59

Notes:  
\* Based on arbitrary benchmark elevation of 10.00 feet  
TOC measured on May 17, 2017  
Ft. BLS - feet below land surface  
TOC - top of casing  
NG - Not Gauged  
NS - Not Surveyed



Desoto Correctional Institution (AOC #3) - Groundwater Analytical Data

Table 1-A

Sample ID		MW001 (screened 2 to 12 ft bls)					MW002 (screened 2 to 12 ft bls)				MW003 / 3R (screened 2 to 12 ft bls)				Ch. 62-777 FAC GCTL	Ch. 62-777 Groundwater NADC
Sample Date		9/23/03	12/5/03	2/16/07	4/16/13	7/23/13	12/5/03	2/16/07	1/23/13	7/23/13	12/5/03	2/16/17	4/16/13	7/23/13		
Volatile Organic Compounds (VOCs by EPA 8260)																
Benzene	µg/L	1 U	1 U	2.28	0.32 I	0.13 U	1 U	0.211 U	0.13 U	0.13U	1 U	0.211U	0.13U	0.13U	1	100
Toluene	µg/L	1 U	1 U		0.14 I	0.14 U	1 U		0.14 U	0.14U	1 U		0.14U	0.14U	40	400
Total Xylenes	µg/L	5	2 U	7.1	0.44 U	0.44 U	2 U	0.696 U	0.44 U	0.44U	2 U	3.5	0.44U	0.44U	20	200
Ethylbenzene	µg/L	3	1 U	8.21	0.72 I	0.16 U	1 U	0.196 U	0.16 U	0.16U	1 U	2.03	0.17 I	0.16U	30	300
MTBE	µg/L	1 U	1 U		0.61 I	0.13 U	1 U		0.13 U	0.13 U	1 U		0.15 I	0.13U	20	200
Isopropylbenzene	µg/L	1 U	1 U	NA	NA	NA	1 U		NA	NA	1 U		NA	NA	0.8	8
1,3,5-Trimethylbenzene	µg/L	3	1 U	NA	NA	NA	1 U		NA	NA	1 U		NA	NA	10	100
1,2,4-Trimethylbenzene	µg/L	13	1 U	NA	NA	NA	1 U		NA	NA	1 U		NA	NA	10	100
sec-butylbenzene	µg/L	1 U	1 U	NA	NA	NA	1 U		NA	NA	1 U		NA	NA	NA	NA
n-butylbenzene	µg/L	1 U	1 U	NA	NA	NA	1 U		NA	NA	1 U		NA	NA	NA	NA
N-propylbenzene	µg/L	1 U	1 U	NA	NA	NA	1 U		NA	NA	1 U		NA	NA	NA	NA
Naphthalene	µg/L	2	1 U	NA	NA	NA	1 U		NA	NA	1 U		NA	NA	14	140
Other VOCs	µg/L															
Semi-Volatile Organic Compounds (SVOCs) by EPA 8270LL																
Acenaphthylene	µg/L	NA	NA	0.007 U	0.025 U	0.025 U	NA	0.007 U	0.040 U	0.025 U	NA	0.279	0.025U	0.025U	210	2,100
1-Methylnaphthalene	µg/L	NA	NA	4.3	2.0 J	0.040 U	NA	0.359	0.56	0.040 U	NA	0.18	0.22 J	0.13 I	28	280
2-Methylnaphthalene	µg/L	NA	NA	5.7	2.9 J	0.031 U	NA	0.276	0.64	0.031 U	NA	0.252	0.39 J	0.25	28	280
Naphthalene	µg/L	NA	1 U	39.6	12 J	0.040 U	1 U	1.19	2.8	0.040 U	1 U	2.55	1.2 J	0.39	14	140
Other PAHs	µg/L															

µg/L - micrograms per liter

Lab qualifier "U" after a concentration indicates the concentration was below the laboratory method detection limit (MDL)

Lab qualifier "I" after a concentration indicates the concentration was below the laboratory practical quantitation limit (PQL)

Lab qualifier "J" after a concentration indicates estimated value                      NA - Not Analyzed

GCTL - Groundwater Cleanup Target Level

NADC - Natural Attenuation Default Criteria

**Bold** text indicates analyte detected greater than the MDL

indicates analyte was detected at a concentration greater than Ch. 62-777 FAC, GCTL

indicates all concentrations were reported below the laboratory method detection limits (MDL)



Desoto Correctional Institution (AOC #3) - Groundwater Analytical Data

Table 1-B

Sample ID		MW004 (screened 2 to 12 ft bls)				MW005 (screened 2 to 12 dt bls)				DP009 (16 to 20 ft bls)	Ch. 62-777 FAC GCTL	Ch. 62-777 Groundwater NADC
Sample Date		12/5/03	2/16/07	1/23/13	7/23/13	12/5/03	2/16/07	1/23/13	7/23/13	3/10/03		
Volatile Organic Compounds (VOCs by EPA 8260)												
Benzene	µg/L	1 U	0.211U	0.13U	0.13U	1 U	0.211U	0.13U	0.13U	21	1	100
Toluene	µg/L	1 U		0.30 I	0.14U	1 U		0.14U	0.14U		40	400
Ethylbenzene	µg/L	1 U	0.196U	0.16U	0.16U	1 U	0.196U	0.16U	0.16U	22	30	300
Total Xylenes	µg/L	2 U	0.696U	0.44U	0.44U	2 U	1.04	0.44U	0.44U	31	20	200
MTBE	µg/L	3		0.13U	0.13U	1 U		0.13U	0.13U	11	20	200
Isopropylbenzene	µg/L	1 U	NA	NA	NA	1 U	NA	NA	NA	44	0.8	8
1,3,5-Trimethylbenzene	µg/L	1 U	NA	NA	NA	1 U	NA	NA	NA	3	10	100
1,2,4-Trimethylbenzene	µg/L	1 U	NA	NA	NA	1 U	NA	NA	NA	17	10	100
sec-butylbenzene	µg/L	1 U	NA	NA	NA	1 U	NA	NA	NA	7	NA	NA
n-butylbenzene	µg/L	1 U	NA	NA	NA	1 U	NA	NA	NA	19	NA	NA
n-propylbenzene	µg/L	1 U	NA	NA	NA	1 U	NA	NA	NA	118	NA	NA
Naphthalene	µg/L	1 U	NA	NA	NA	1 U	NA	NA	NA	570	14	140
Other VOCs	µg/L											
Semi-Volatile Organic Compounds (SVOCs) by EPA 8270LL												
1-Methylnaphthalene	µg/L	NA	0.051U	0.040U	0.040U	NA	0.051U	0.040U	0.040U	93	28	280
2-Methylnaphthalene	µg/L	NA	0.054U	0.031U	0.038 I	NA	0.054U	0.031U	0.057U	132	28	280
Naphthalene	µg/L	1 U	0.022U	0.040U	0.080 I	1 U	0.052	0.040U	0.080 I	491	14	140
Other PAHs	µg/L											
8 RCRA METALS												
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.021	0.010	0.1
Barium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	2.0	20
Cadmium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005	0.05
Chromium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.111	0.1	1
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.075	0.015	0.15
Selenium	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.010 U	0.050	0.5
Silver	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	0.1	1
Mercury	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.005	0.002	0.02

µg/L - micrograms per liter

mg/L - milligram per liter

Lab qualifier "U" after a concentration indicates the concentration was below the laboratory method detection limit (MDL)

Lab qualifier "I" after a concentration indicates the concentration was below the laboratory practical quantitation limit (PQL)

Lab qualifier "J" after a concentration indicates estimated value

GCTL - Groundwater Cleanup Target Level

NADC - Natural Attenuation Default Criteria

NA - Not Analyzed

**Bold** text indicates analyte detected greater than the MDL or detected at specific concentration

indicates analyte was detected at a concentration greater than Ch. 62-777 FAC, NADC

indicates analyte was detected at a concentration greater than Ch. 62-777 FAC, GCTL

indicates all concentrations were reported below the laboratory method detection limits (MDL)



Desoto Correctional Institution (AOC #3) - Groundwater Analytical Data

Table 1-C

Sample ID		MW006 (screened 15 to 20 ft bls)							DUP				MW007 (screened 15 to 20 ft bls)								Ch. 62-777 FAC GCTL	Ch. 62-777 Groundwater NADC
Sample Date		6/12/14	1/25/16	4/25/16	7/25/16	10/18/16*	5/17/17	11/1/17	4/25/16	7/25/16	10/18/16*	11/1/2017	6/12/14	1/25/16	4/25/16	7/25/16	10/18/16*	5/17/17	11/1/17			
Volatile Organic Compounds (VOCs by EPA 8260)																						
Benzene	µg/L	2.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.55 I	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1	100	
Ethylbenzene	µg/L	2.2 U	1.4	1.9	1.5	2.5	2.8	3.1	1.8	2.8	2.5	2.7	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	30	300	
Total Xylenes	µg/L	2.5 U	0.50 U	0.81	0.50 U	0.88 I	1.5 I	1.4 I	0.82	1.0 I	1.4 I	1.5 I	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	20	200	
Isopropylbenzene	µg/L	55	35	40	31	43	45	49	41	43	42	32	0.19 U	NR	NR	NR	NR	NR	NR	0.8	8	
sec-butylbenzene	µg/L	11	7	10	8.8	10	11	11	10	9.9	9.6	7.3	0.63 U	NR	NR	NR	NR	NR	NR	NS	NS	
n-butylbenzene	µg/L	32	18	22	20	28	23	27	23	23	26	16	0.67 U	NR	NR	NR	NR	NR	NR	NS	NS	
n-propylbenzene	µg/L	160	94	110	85	120	140	110	100	100	110	75	0.59 U	NR	NR	NR	NR	NR	NR	NS	NS	
Other VOCs	µg/L																					
Semi-Volatile Organic Compounds (SVOCs) by EPA 8270LL																						
Acenaphthene	µg/L	0.38 U	0.76	0.47	1	0.43 I	1	0.87 I	0.33	0.75	0.6	1	0.38 U	0.032 U	0.032 U	0.22 U	0.23 U	0.22 U	0.22 U	20	200	
Acenaphthylene	µg/L	0.24 U	0.17 I	0.045 U	0.22 U	0.23 U	0.22 U	0.17 I	0.045 U	0.22 U	0.23 U	0.19 I	0.24 U	0.045 U	0.045 U	0.22 U	0.23 U	0.22 U	0.072 U	210	2100	
Fluorene	µg/L	0.38 U	0.27	0.11 U	0.44 I	0.23 U	0.38 I	0.31 I	0.11 U	0.30 I	0.23 I	0.36 I	0.38 U	0.11 U	0.11 U	0.22 U	0.23 U	0.022 U	0.22 U	280	2800	
Dibenzo(a,h)anthracene	µg/L	0.38 U	0.050 U	0.050 U	0.039 I	0.034 U	0.032 U	0.068 U	0.050 U	0.032 U	0.034 U	0.068 U	0.038 U	0.050 U	0.050 U	0.032 U	0.034 U	0.032 U	0.068 U	0.005	0.5	
Indeno(1,2,3-cd)pyrene	µg/L	0.42 U	0.057 I	0.043 U	0.045 U	0.046 U	0.0045 U	0.045 U	0.043 U	0.045 I	0.046 U	0.045 U	0.42 U	0.043 U	0.043 U	0.045 U	0.046 U	0.045 U	0.045 U	0.05	5	
1-Methylnaphthalene	µg/L	76	95	1.7	120	69	100	120	1.6	91	84	140	0.038 U	0.074 U	0.074 U	0.22 U	0.23 U	0.22 U	0.22 U	28	280	
2-Methylnaphthalene	µg/L	110	110	0.63	180	95	150	160	0.6	140	120	180	0.030 U	0.060 U	0.060 U	0.22 U	0.23 U	0.22 U	0.22 U	28	280	
Naphthalene	µg/L	280 J	330	0.094 U	310	160	280	340	0.094 U	260	200	380	0.038 UJ	0.094 U	0.094 U	0.22 U	0.23 U	0.22 U	0.22 U	14	140	
Phenanthrene	µg/L	0.38 U	0.036 U	0.036 U	0.5	0.23 U	0.22 U	0.22 U	0.036 U	0.22 U	0.23 U	0.22 U	0.038 U	0.036 U	0.036 U	0.22 U	0.23 U	0.22 U	0.22 U	210	2,100	
Other PAHs	µg/L																					
8 RCRA METALS																						
Arsenic	mg/L	0.0040 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0040 U	NA	NA	NA	NA	NA	NA	0.010	0.1	
Barium	mg/L	0.064	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12	NA	NA	NA	NA	NA	NA	2.0	20	
Cadmium	mg/L	0.0010 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0013 I	NA	NA	NA	NA	NA	NA	0.005	0.05	
Chromium	mg/L	0.0020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.010	NA	NA	NA	NA	NA	NA	0.1	1	
Lead	mg/L	0.0021 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0072 I	NA	NA	NA	NA	NA	NA	0.015	0.15	
Selenium	mg/L	0.0050 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0051 I	NA	NA	NA	NA	NA	NA	0.050	0.5	
Silver	mg/L	0.0010 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0010 U	NA	NA	NA	NA	NA	NA	0.1	1	
Mercury	mg/L	0.000072 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00034	NA	NA	NA	NA	NA	NA	0.002	0.02	

µg/L - micrograms per liter

mg/L - milligram per liter

Lab qualifier "U" after a concentration indicates the concentration was below the laboratory method detection limit (MDL)

Lab qualifier "I" after a concentration indicates the concentration was below the laboratory practical quantitation limit (PQL)

Lab qualifier "J" after a concentration indicates estimated value

Lab qualifier "Q" after a concentration indicates sample held beyond the accepted holding time.

GCTL - Groundwater Cleanup Target Level

NADC - Natural Attenuation Default Criteria

**Bold** text indicates analyte detected greater than the MDL or detected at specific concentration

indicates analyte was detected at a concentration greater than Ch. 62-777 FAC, NADC

indicates analyte was detected at a concentration greater than Ch. 62-777 FAC, GCTL

indicates all concentrations were reported below the laboratory method detection limits (MDL)

\* - Polynuclear Aromatic Hydrocarbon compounds were sampled on 11/8/16

NR - Not Reported

NS - No Standard

NA - Not Analyzed

Note: Chloroform and dichlorobromomethane were detected in the MW007 sample collected on 11-1-17.

These two concentrations exceeded their respective GCTLs, however, they were below their resepctive NADCs.



Desoto Correctional Institution (AOC #3) - Groundwater Analytical Data

Table 1-D

Sample ID		MW008 (screened 25 to 30 ft bls)							DUP	MW009 (screened 25 to 30 ft bls)							MW010 (screened 25 to 30 ft bls)							Ch. 62-777 FAC GCTL	Ch. 62-777 Groundwater NADC
Sample Date		10/29/14	1/25/16	4/25/16	7/25/16	10/18/16*	5/17/17	11/1/17	5/17/17	10/29/14	1/25/16	4/25/16	7/25/16	10/18/16*	5/17/17	11/1/17	10/29/14	1/25/16	4/25/16	7/25/16	10/18/16*	5/17/17	11/1/17		
Volatile Organic Compounds (VOCs by EPA 8260)																									
Benzene	µg/L	0.50U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50U	0.65 I	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1	100
Ethylbenzene	µg/L	0.44U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	30	300
Total Xylenes	µg/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	20	200
Methyl-tert-butylether	µg/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.54 I	0.44 U	0.52 I	0.44 U	20	200
Isopropylbenzene	µg/L	0.19U	NR	NR	NR	NR	NR	NR	NR	0.19U	NR	NR	NR	NR	NR	NR	0.19U	NR	NR	NR	NR	NR	NR	0.8	8
sec-butylbenzene	µg/L	0.63U	NR	NR	NR	NR	NR	NR	NR	0.63U	NR	NR	NR	NR	NR	NR	0.63U	NR	NR	NR	NR	NR	NR	NS	NS
n-butylbenzene	µg/L	0.67U	NR	NR	NR	NR	NR	NR	NR	0.67U	NR	NR	NR	NR	NR	NR	0.67U	NR	NR	NR	NR	NR	NR	NS	NS
n-propylbenzene	µg/L	0.59U	NR	NR	NR	NR	NR	NR	NR	0.59U	NR	NR	NR	NR	NR	NR	0.59U	NR	NR	NR	NR	NR	NR	NS	NS
Other VOCs	µg/L																								
Semi-Volatile Organic Compounds (SVOCs) by EPA 8270LL																									
Acenaphthene	µg/L	0.38 U	0.032 U	0.032 U	0.22 U	0.23 U	0.22 U	0.22 U	0.22 U	0.38 U	0.032 U	0.032 U	0.24 U	0.23 U	0.22 U	0.22 U	0.38 U	0.032 U	0.032 U	0.22 U	0.23 U	0.22 U	0.22 U	20	200
Acenaphthylene	µg/L	0.24 U	0.045 U	0.045 U	0.22 U	0.23 U	0.22 U	0.072 U	0.22 U	0.24 U	0.045 U	0.045 U	0.24 U	0.23 U	0.22 U	0.072 U	0.24 U	0.045 U	0.045 U	0.22 U	0.23 U	0.22 U	0.072 U	210	2100
Benzo(a)anthracene	µg/L	0.024 U	0.046 U	0.046 U	0.045 U	0.046U	0.045 U	0.045 U	0.045 U	0.024 U	0.046 U	0.046 U	0.048 U	0.046U	0.045 U	0.045 U	0.024 U	0.046 U	0.046 U	0.053 I	0.046U	0.045 U	0.045 U	0.05	5
Benzo(b)fluoranthene	µg/L	0.024 U	0.034 U	0.034 U	0.045 U	0.046U	0.045 U	0.045 U	0.045 U	0.024 U	0.034 U	0.034 U	0.048 U	0.046U	0.045 U	0.045 U	0.024 U	0.034 U	0.034 U	0.046 I	0.046U	0.045 U	0.045 U	0.05	5
Fluorene	µg/L	0.38 U	0.11 U	0.11 U	0.22 U	0.23 U	0.22 U	0.22 U	0.22 U	0.38 U	0.11 U	0.11 U	0.24 U	0.23 U	0.22 U	0.22 U	0.38 U	0.11 U	0.11 U	0.22 U	0.23 U	0.22 U	0.22 U	280	2800
Ideno(1,2,3-cd)pyrene	µg/L	0.42 U	0.043 U	0.043 U	0.045 U	0.046 U	0.045 U	0.045 U	0.045 U	0.42 U	0.043 U	0.043 U	0.048 U	0.046 U	0.045 U	0.045 U	0.42 U	0.043 U	0.043 U	0.052 I	0.046 U	0.045 U	0.045 U	0.05	5
1-Methylnaphthalene	µg/L	0.038U	0.074 U	0.074 U	0.22 U	0.23 U	0.22 U	0.22 U	0.30 I	0.12I	0.074 U	0.074 U	0.24 U	1	0.22 U	0.22 U	0.038U	0.074 U	0.074 U	0.22 U	0.23 U	0.22 U	0.22 U	28	280
2-Methylnaphthalene	µg/L	0.035 I	0.060 U	0.060 U	0.22 U	0.23 U	0.22 U	0.22 U	0.22 U	0.16I	0.090 I	0.060 U	0.24 U	1.3	0.22 U	0.22 U	0.030U	0.082 I	0.060 U	0.27 I	0.23 U	0.22 U	0.22 U	28	280
Naphthalene	µg/L	0.089 I	0.094 U	0.094 U	0.22 U	0.23 U	0.22 U	0.22 U	0.22 U	0.22	0.094 Q U	0.094 U	0.31 I	0.26 I	0.22 U	0.22 U	0.038U	0.094 Q U	0.094 U	0.32 I	0.23 U	0.22 U	0.22 U	14	140
Phenanthrene	µg/L	0.038 U	0.036 U	0.036 U	0.22 U	0.23 U	0.22 U	0.22 U	0.22 U	0.038 U	0.036 U	0.036 U	0.24 U	0.26 I	0.22 U	0.22 U	0.038 U	0.036 U	0.036 U	0.54	0.23 U	0.22 U	0.22 U	210	2,100
Other PAHs	µg/L														0.22 U										
8 RCRA METALS																									
Arsenic	mg/L	0.0040U	NA	NA	NA	NA	NA	NA	NA	0.0053I	NA	NA	NA	NA	NA	NA	0.0040U	NA	NA	NA	NA	NA	NA	0.010	0.1
Barium	mg/L	0.025	NA	NA	NA	NA	NA	NA	NA	0.13	NA	NA	NA	NA	NA	NA	0.049	NA	NA	NA	NA	NA	NA	2.0	20
Cadmium	mg/L	0.0010U	NA	NA	NA	NA	NA	NA	NA	0.0010U	NA	NA	NA	NA	NA	NA	0.0010U	NA	NA	NA	NA	NA	NA	0.005	0.05
Chromium	mg/L	0.020	NA	NA	NA	NA	NA	NA	NA	0.017	NA	NA	NA	NA	NA	NA	0.080	NA	NA	NA	NA	NA	NA	0.1	1
Lead	mg/L	0.0020U	NA	NA	NA	NA	NA	NA	NA	0.0025I	NA	NA	NA	NA	NA	NA	0.0069I	NA	NA	NA	NA	NA	NA	0.015	0.15
Selenium	mg/L	0.012I	NA	NA	NA	NA	NA	NA	NA	0.017I	NA	NA	NA	NA	NA	NA	0.020	NA	NA	NA	NA	NA	NA	0.050	0.5
Silver	mg/L	0.0010U	NA	NA	NA	NA	NA	NA	NA	0.0010U	NA	NA	NA	NA	NA	NA	0.0010U	NA	NA	NA	NA	NA	NA	0.1	1
Mercury	mg/L	0.072U	NA	NA	NA	NA	NA	NA	NA	0.072U	NA	NA	NA	NA	NA	NA	0.072U	NA	NA	NA	NA	NA	NA	0.002	0.02

µg/L - micrograms per liter

mg/L - milligram per liter

Lab qualifier "U" after a concentration indicates the concentration was below the laboratory method detection limit (MDL)

Lab qualifier "I" after a concentration indicates the concentration was below the laboratory practical quantitation limit (PQL)

Lab qualifier "J" after a concentration indicates estimated value

Lab qualifier "Q" after a concentration indicates sample held beyond the accepted holding time.

GCTL - Groundwater Cleanup Target Level

NADC - Natural Attenuation Default Criteria

**Bold** text indicates analyte detected greater than the MDL or detected at specific concentration

indicates analyte was detected at a concentration greater than Ch. 62-777 FAC, NADC

indicates analyte was detected at a concentration greater than Ch. 62-777 FAC, GCTL

indicates all concentrations were reported below the laboratory method detection limits (MDL)

\* - Polynuclear Aromatic Hydrocarbon compounds were sampled on 11/8/16

NR - Not Reported

NS - No Standard

NA - Not Analyzed



**From:** Hood, Justin  
**To:** ["murphy.patrick@mail.dc.state.fl.us"](mailto:murphy.patrick@mail.dc.state.fl.us)  
**Cc:** [Dave M. Phillips \(Haz Waste\) \(Dave.M.Phillips@dep.state.fl.us\)](mailto:Dave.M.Phillips@dep.state.fl.us); [David Meyers \(David.Meyers@dep.state.fl.us\)](mailto:David.Meyers@dep.state.fl.us); [Crain, Kelly](#); [Martin, Diane](#)  
**Subject:** Site Rehabilitation Completion Order  
**Date:** Tuesday, July 12, 2016 2:16:00 PM  
**Attachments:** [Clerked DeSoto Correctional w Attachments.pdf](#)

---

Hello Mr. Murphy,

Several years ago the DEP conducted an assessment of one area at the Desoto Correctional Institution. This assessment resulted from an initial response to a DEP site survey questionnaire in 2003. The work was done under the DEP's State Owned Lands Cleanup Program, which is a voluntary program established to address environmental concerns noted by representatives of state owned lands. The program is legislatively funded to the DEP through the Inland Protection Trust Fund. The attached document is a Site Rehabilitation Completion Order for Area-of-Concern #5. This completes all activities at this AOC. Work continues at an one additional AOC.

Documents associated with DEP studies are placed into the DEP Information Portal website at <http://webapps.dep.state.fl.us/DepNexus/public/search-portal>. This particular study is assigned the facility ID: 26SL-1.

Thank you for your assistance during our study. Please contact me if you have any questions.

Sincerely,

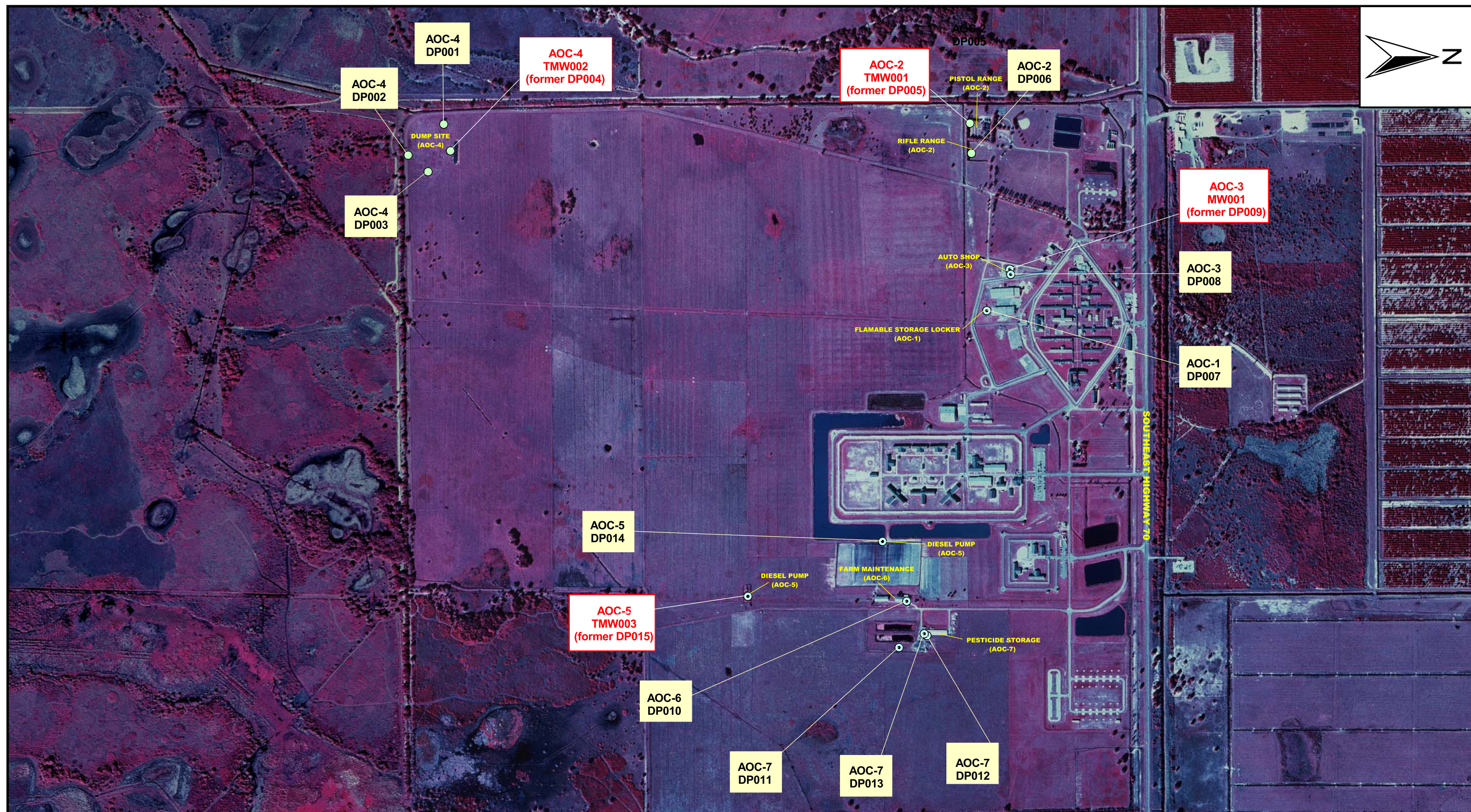
Justin Hood  
Engineering Technician IV  
Site Investigation Section – State Owned Lands Cleanup Program  
Florida Department of Environmental Protection  
(850) 245-8950  
[Justin.Hood@dep.state.fl.us](mailto:Justin.Hood@dep.state.fl.us)

The attached electronic copy of the Site Rehabilitation Completion Order is provided for your records. Please note that a paper copy will not follow by regular mail.









**LEGEND:**

- ⊙ GROUNDWATER & SOIL SAMPLE LOCATION
- GROUNDWATER SAMPLE LOCATION

**DESOTO CORRECTIONAL INSTITUTION, WORK CAMP & ANNEX**  
**13617 SOUTHEAST HIGHWAY 70**  
**ARCADIA, DESOTO COUNTY, FLORIDA**

**SITE PLAN**



**FIGURE 2**



***STATE OWNED LANDS CLEANUP SURVEY  
SITE RECONNAISSANCE REPORT***

***DE SOTO CORRECTIONAL INSTITUTION,  
ANNEX, AND WORK CAMP  
13617 SOUTHEAST HIGHWAY 70  
ARCADIA, FLORIDA  
FDEP SITE #26SL  
DECEMBER 2002***





**STATE OWNED LANDS CLEANUP SURVEY  
SITE RECONNAISSANCE REPORT**

**FLORIDA DEP STATE LANDS INITIATIVE  
SITE NUMBER: 26SL**

**DE SOTO CORRECTIONAL INSTITUTION, WORK  
CAMP, & ANNEX  
13617 SOUTHEAST HIGHWAY 70  
DESOTO COUNTY  
ARCADIA, FLORIDA 34266**

**Prepared for:**


**FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION**

**Submitted by:**

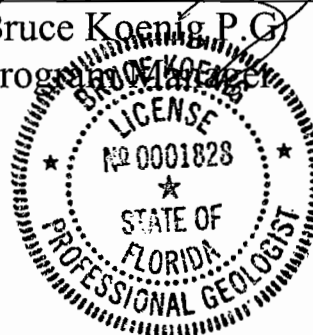


**Metcalf & Eddy, Inc.  
3740 Executive Way  
Miramar, Florida 33025**

**January 2003**

  
FOR SCOTT BLANCHARD  
Scott Blanchard  
Senior Geologist

  
Bruce Koenig P.G.  
Program Manager





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## **FIGURES**

**Figure 1** Site Location Map

**Figure 2** Facility Layout Map

## **APPENDICES**

**Appendix A** State-Owned Lands Cleanup Survey

**Appendix B** State-Owned Lands Site Screening Survey

**Appendix C** Photolog



**STATE OWNED LANDS CLEANUP SURVEY  
SITE RECONNAISSANCE REPORT  
DESOTO CORRECTIONAL INSTITUTE, WORK CAMP & ANNEX  
13617 SOUTHEAST HIGHWAY 70  
DESOTO COUNTY  
ARCADIA, FLORIDA 34266**

## **1.0 INTRODUCTION**

### **1.1 SCOPE OF WORK**

Metcalf & Eddy, Inc. (M&E) has been retained by the State of Florida, Department of Environmental Protection (FDEP) to conduct an environmental site reconnaissance at and prepare this summary report with recommendations for preliminary environmental investigations. The specific purpose of the site reconnaissance is to clarify and confirm data provided within the State-Owned Lands Cleanup Survey and to further identify potential locations of soil and groundwater contamination through interview, observation and review of available records.

Included are the following summaries: a review of available records (**Section 2**), a site visit (**Section 3**), and findings and conclusions (**Section 4**). **Section 5** of this report presents a scope of work for site investigation based upon the findings and conclusions of the investigation into the current and past site uses. A statement of limitations to the findings and conclusions and associated work is presented in **Section 6**.

### **1.2 SITE LOCATION**

The target property is located at 13617 S.E. Highway 70, Arcadia, Desoto County, Florida, 34266. **Figure 1** presents a Site Location Map.



### 1.3 SITE DESCRIPTION

The target property occupies approximately 640 acres (**Figures 1 and 2**). It is situated on flat terrain surrounded by agricultural lands. The property's northern boundary is Highway 70. It is bordered on the east, west, and south by the "rim canal."

### 1.4 SITE HISTORY

The State-Owned Lands Cleanup Survey (**Appendix A**), accompanying the FDEP Task Assignment for this property, identified the present and past site uses as: "This is a very large prison complex. Some parts of the property are subleased to PRIDE for cattle production. There is other property being subleased to C.F.S. [Children and Family Services] for a large treatment facility under the Jimmy Ryce Act. This system has its own water and wastewater plants also."

Mr. Charles Vaughn, Maintenance Supervisor at the De Soto Correctional Institute (DCI), and Mr. Scott Montgomery stated that, prior to use by Florida Department of Corrections (DC) in 1969, the target property was agricultural. Mr. Montgomery also stated that the property was a U.S. Air Force/military installation in the 1940s. He had no specific knowledge of military uses of the property and which structures, if any, were military in origin. M&E recommends further research be conducted regarding the former military uses of this area, as it relates to the potential for soil and groundwater contamination.



## **2.0 RECORDS REVIEW**

### **2.1 STATE LANDS SURVEY**

Accompanying the FDEP Task Order for this property was a copy of the State-Owned Lands Cleanup Survey (**Appendix A**).

None of the Potential Environmental Hazards section on the survey form were completed. The presence or physical indicators of possible contamination were left blank on the survey form, with the exception that it was noted, “there are seven aboveground tanks.”

A former gasoline spill outside the garage is mentioned in the other relevant information section. It states ...“the spill has been cleaned up. The DEP granted us ‘NFA’ status.”

### **2.2 DEPARTMENT OF CORRECTIONS**

Documents, including facility plans, site operations history, and environmental DC records/reports were requested from Mr. Joe Jereb, P.E., Regional Engineer for the Southeast Service Center.

The Records Department of the DC provided M&E with the following documents:

- **Steven P. Yu (June 1, 1998). *Desoto Correctional Institution; Ps. Contamination Site***

This letter is addressed to Linda Williams, Superintendent at DCI. It states that FDEP has granted No Further Action status for the tank site at the Auto Shop. It states that a consultant will abandon the monitoring wells at the site.



## **2.3 OTHER REVIEWED DOCUMENTS**

No other documents concerning the target property were reviewed as part of this investigation.



### 3.0 SITE VISIT

#### 3.1 INTRODUCTION

A site visit was conducted on November 8, 2002. Mr. Scott Blanchard, M&E Senior Geologist, and Mr. Joe Jereb, P.E., Regional Engineer Southeast District - Florida Department of Corrections, conducted a site visit in the company of Mr. Bill Gallagher, Utilities Supervisor.

#### 3.2 SITE QUESTIONNAIRE

Prior to arrival at the facility, Mr. Joe Jereb stated that DCI was under an Administrative Order that had accompanied their new wastewater permit. This Administrative Order requires DC to address gross alpha and radium contamination. He said the spray application of wastewater effluent, including untreated groundwater, conducted under permit, has relatively high levels of gross alpha and radium. The source of the radionuclides is naturally occurring and is in the groundwater. Groundwater that bypasses the reverse osmosis (RO) water treatment plant is discharged to the spray field. Mr. Jereb stated that this is the source of the radiation that is applied to the spray field.

Mr. Jereb stated additional Areas of Interest (AOIs) at DCI include:

- A diesel spill at the Work Camp emergency generator; and,
- A dump site.

Mr. Montgomery completed a Site Screening Survey (**Appendix B**) to aid in directing the site visit to potential areas of interest. Mr. Montgomery has been at the facility for more than 15 years.

Potential hazards on site, based on the Site Screening Survey (**Appendix A**), are:



- Petroleum storage areas;
- Pesticide, herbicide and insecticide mixing/storage areas;
- Solvent storage areas;
- Active Landfill;
- Closed Landfill;
- Fertilizer mixing zones;
- Maintenance areas;
- Waste Oil Stored; and
- Transformers.

Other issues raised by the survey include:

- Stormwater management system;
- Auto Shop stores drums of used oil;
- Nine diesel fuel tanks for emergency generators and;
- Med-Bio-waste Storage area.

Potential data gaps or unknowns on the survey include:

- Presence of stressed vegetation.

Mr. Montgomery stated that there was not an incinerator on site. He also stated that he was unaware of any hazardous waste storage/accumulation areas. Mr. Vaughn said the facility did not have any RCRA permits. He said a vendor is contracted for: solid waste removal, medical waste removal, fluorescent light bulb disposal, cardboard disposal, and waste oil disposal.

Mr. Montgomery's excellent recall of the facilities' operational history served as the main guide to the site visit. Mr. Charles Vaughn, Maintenance Supervisor at the Desoto



**Figure 2** depicts an aerial photograph of the target property with key structures labeled. A photo log containing referenced photographs taken during the site visit is presented in **Appendix C**.

- **AOI 1: Maintenance Building**

The Maintenance Building (Building #D-44) is located inside a fenced perimeter south of the CFS facility, north of the spray field, east of the Training Building and firing range, and west of DCI (**Figure 2**). Facilities inside the Maintenance Building consist of: Plumbing Shop, Carpentry Shop, Masonry Shop, Welding Shop, Paint Room, HVAC Shop, Storage and office space. In general, the areas in the Maintenance Building were neat and well organized.

Approximately 15 feet south of the concrete slab at the southwest corner of the Maintenance Building, several paint can lids were observed exposed at the ground surface (Photo 1). Only minor stressed vegetation was noted around the paint can lids. Neither Mr. Vaughn nor Mr. Gallagher had any knowledge of dumping/burial of waste in this area.

- **AOI 2: Flammable Storage Building**

A Flammable Storage Building (Building D-57) is located south of the Maintenance Building (**Figure 2**). Floor drains are present in the building. It is not known where the drains are plumbed to. The building is separated into three sections (lockers) by steel reinforced fencing. (Photo 2).

A sink is located on a concrete pad within a concrete berm on the east side of the building (Photo 3). Paint cans, paint waste, and newspaper were observed inside the sink. The sink is not plumbed to a drain. A white above ground propane tank is located a few feet east of the sink. Mr. Vaughn stated that paint waste is caught



Correctional Institution, was present during the interview and concurred with Mr. Montgomery's description of site facilities and current operations.

### **3.3 AREAS OF INTEREST (AOI)**

Agricultural lands surround the facility. Highway 70 forms the northern property boundary. A canal and agricultural fields form the eastern, southern and western property boundaries. Mr. Montgomery stated that agricultural use surrounds the target property.

Two areas within the target property are subleased by the DC. These include: PRIDE, and CFS. PRIDE facilities consist of cattle pasture and pen areas, farm maintenance facilities, pesticide and herbicide mixing and storage areas, and agricultural fields. PRIDE facilities will not be addressed in this report. The CFS area is a correctional facility operated by the Florida Department of Children and Family Services and consists of detention facilities under the Jimmy Ryce Act. **Figure 2** presents an aerial photo of the facility with key features labeled.

Areas of Interest (AOI) are discrete areas that warranted further visual examination during the site visit, based on observations during the site visit, interviews with site personnel, the Site Screening Survey, and the records provided to M&E. An AOI does not necessarily constitute an Area of Concern, which is an area that requires further assessment. Areas of Concern (AOC) are presented in **Section 4**.

Mr. Blanchard, Mr. Jereb, and Mr. Gallagher conducted a visual reconnaissance of the AOIs. Mr. Gallagher has been at the facility approximately 8 years and provided a credible description of site operations.



in a 5-gallon bucket and drummed. He said a vendor disposes of the drums of paint waste. Staining was observed on the cracked concrete slab east of the sink and in the containment area. Stressed vegetation and soil staining were observed around the edges of the concrete slab and around the containment pad (Photos 4 and 5).

The east locker of the Flammable Storage Building is labeled as “Caustic / Flammable Storage.” Containers of grease, acrylic sealant, motor oil, pipe thread compound, PVC cement, WD-40, three drums marked “Mineral Spirits,” and refrigerants are stored in this locker. A floor drain was observed in the center of the locker. Staining was observed on the concrete floor leading to and around the floor drain. A spill of motor oil was observed under the shelves containing motor oil. (Photos 6, 7, 8, and 9).

The center locker was marked as “Flammable Storage.” Neither Mr. Vaughn nor Mr. Gallagher could open the center locker. However, through the fencing of the adjacent lockers, drums with some petroleum markings and quart containers of motor oil were visible. It is suspected that a floor drain is present in this locker as well.

The west locker is marked “Flammable Storage.” It contained shelving with paint storage, acrylic sealant, and a plastic 55-gallon drum of detergent. Staining and dried spilled paint were observed on the concrete floor. A floor drain is present in the center of this locker. Staining was noted around the drain (Photos 11, 12, and 13).

On the ground in front of the Flammable Storage Building were an upside-down, empty 5-gallon bucket and a full 5-gallon bucket with unidentified liquid contents (Photo 10). The full bucket was not labeled or marked. Mr. Gallagher had no



knowledge of its contents. Soil staining and stressed vegetation were observed in the area north of the building.

- **AOI 3: Metal Scrap Accumulation Area**

Metal scrap is piled on the grass west of the Flammable Storage Building (AOI 2) and south of the Old Warehouse/Vocational Training Building (AOI 4). Sinks, shelves, broken equipment, metal pipe, sheet metal, and metal carts were observed in this area. No staining was observed on the ground in this area. No concerns were noted in this area.

- **AOI 4: Old Warehouse/Vocational Training Building**

This building is located west of the Maintenance Building and east of the Auto Shop. It is inside of the secured area along with the AOIs 1, 2, and 3. This structure housed vocational training classes and the facilities for these programs. Currently, most of the building is used for miscellaneous storage, tool storage, and small engine repair facilities.

A former Electronics Shop is located on the southwest corner of the building. Currently, this area is being used for storage. Mr. Vaughn stated that he is in the process of clearing out the electronics equipment and stores. Mr. Vaughn has not seen nor knows of the use of circuit board cleaner in this area. He stated that this area was used as a classroom. No fluid storage or flammable/caustic storage was identified in this area. A sink and a floor drain were observed in this room. No staining was noted in or around the sink.

West of the offices and south of the Small Engine Repair Shop is a paint booth. Two air compressors were observed against the north wall of this area. Staining



was visible on the concrete under and around the compressors. The paint booth is no longer active and is used for storage (Photo 14).

A Small Engine Repair Shop is located in the northwest corner of the building. This area maintains powered yard and maintenance equipment. Some maintenance activities were being conducted on the concrete slab west of the Shop door. Petroleum liquids (portable gasoline cans, motor oils, grease, used oil, etc.) are stored in a fenced locker along the south wall of this area (Photo 15). Two 55-gallon drums of 2-cycle oil and two 5-gallon buckets holding waste oil were observed. Personnel stated that the waste oil is taken to the waste oil tank at the Auto Shop. Parts, tools and equipment are located along the walls of the Shop. The shop had a neat and orderly appearance. Floor drains were observed in this area. No staining was observed on the floor or around the floor drains. Spill absorbent materials were observed to be on hand in the Shop.

- **AOI 5: Old Transformer**

An old, wet-type transformer is located approximately 40 feet north of the Small Engine Repair Shop. This unit appears to be disconnected and is sitting on the ground not on a concrete slab. It is located against a cinderblock pen containing sand. Mr. Gallagher confirmed that this unit is not in use. It is not known if this transformer contains PCBs. No staining was observed on the ground around the transformer.

- **AOI 6: CFS Emergency Generator**

An emergency generator for CFS is located on the southwest side of the unit along the perimeter road directly outside the security fence. This generator was observed to have a diesel-fuel tank mounted beneath the generator. The generator



is located on a concrete slab without a berm. No staining was observed around this slab.

- **AOI 7: Storage Building and Laydown Yard**

A storage building of wood and concrete construction is located north of the warehouse. Building supplies were stored in and around this building. East of this building is a laydown area for used and unused equipment. This area is enclosed by a chain link fence.

Two pole-mount, wet-type transformers, with burn markings, were located on a wooden pallet along the south fence line. No staining was noted on the ground under the pallet. Both of the outer cases appeared to be intact.

A minor area of stressed vegetation is located approximately 30 feet west of the transformer pallet and approximately 50 feet east of the warehouse. This area was circular in nature and approximately the diameter of a 55-gallon drum.

Three pole-mount, wet-type transformers were located on a wooden pallet northeast of the building. One transformer was labeled as non-PCB. The other two had no such markings. No staining was observed on the outside of or on the ground around these items. A fan hood was located next to the transformers. No concerns were noted with their storage.

- **AOI 8: DCI Emergency Generator**

A typical emergency generator for the DCI Main Unit was observed. The diesel fuel AST is of double-walled steel construction. All of the product piping was observed to be above ground and of single-wall construction. The AST is located



on a concrete pad without berms. No staining was noted on or around the AST, or the concrete slabs for the AST and generator.

- **AOI 9: Firing Range**

The Firing Range is located in the northwest portion of the target property west of the Auto Shop and south of the wastewater treatment plant (WWTP) and Training Building. The range could not be accessed during the site visit, as it was in use by the Florida Highway Patrol. It appeared to be a U-shaped berm approximately 30 yards across and 25 yards deep. The berm is approximately 10 feet high. The potential for leaching of lead in the soil to the groundwater exists.

- **AOI 10: Auto Shop**

An Auto Shop is located south of CFS, west of the secured Maintenance Area, north of the Spray Field. A former diesel fuel AST and dispenser were removed from the northeast corner of the Auto Shop (See **Section 2.2**). Vehicles were parked on the north, south and east sides of the building.

Grease stains, that appear to be consistent with a 55-gallon drum, were observed on soil and vegetation west of the ASTs and south of the building. Minor stressed vegetation was noted in this area. (Photo 16).

Two diesel fuel ASTs are located south of the Auto Shop building. A gasoline AST, and a used oil AST are located east of the diesel fuel ASTs. All of the ASTs and their dispensers are located inside of concrete secondary containment areas.



Drum storage was observed on the outside southwest corner of the building (Photo 17). No staining was observed on the ground around this area. Stressed vegetation was observed south and southwest of the drums.

A shelving unit storing various lubricants and motor oils was observed on a concrete slab at the southeast corner of the building (Photo 18). Adjacent to the shelving, on the east side, are three rusty 55-gallon drums of motor oil and one newer 55-gallon drum of antifreeze (Photo 19). Slight pitting and rust was noted at the base of one of the motor oil drums. Staining was noted on the concrete slab close to these drums.

The southern vehicle bay has a pit (Photo 20). A grouted floor drain was present in the pit. The bottom and sides of the pit are stained black. A drip stand attached to a 30-gallon drum was present in the pit. Liquid was observed to be puddled in the bottom of the pit. An inmate stated that the pit is routinely vacuumed out via a shop vac. When questioned about where water removed from the pit is placed, supervising correctional officer at the Auto Shop, Officer Hall, stated that water from the pit is not removed.

Petroleum liquids storage was observed along the southern wall of the southern vehicle bay (Photo 21). Several 5-gallon buckets and plastic 30-gallon drums were observed to contain what appeared to be waste oil. Staining and spilled petroleum liquids were observed on and around these containers. Excessive staining was noted on both the concrete wall adjacent to these and on the concrete floor between the pit and south wall.

A parts cleaning sink is located along the west wall of the service bays. This sink is serviced by a vendor. Excessive amounts of staining and evidence of spills were noted on the floor at the base of the sink and in the general area (Photo 22).



Floor drains were present in the vehicle bays but were grouted approximately 12 years ago, per Officer Hall. Staining was observed on the concrete around the former floor drain locations.

During the site visit, the garage floor was being hosed down with potable water. A sheen was observed on the runoff from this operation. Runoff from the shop floor was in a easterly direction to joints and cracks in the concrete and to the sand parking lot east of the vehicle bays (Photo 23). Due to staining and the flowpath of the runoff, the potential for soil and groundwater contamination from the migration of wash waters to pervious surfaces exists.

- **AOI 11: Spray Field**

A 104-acre spray field is the WWTP effluent land application area (Photo 24). It is in a rectangular area south of the Firing Range, Auto Shop, west of DCI, and north of PRIDE pasture and agricultural fields (**Figure 2**). This is the area of concern for the Administrative Order regarding radionuclide contamination detailed in **Section 3.2**.

- **AOI 12: Work Camp**

The Work Camp was also visited. The emergency generator is set up like that described in AOI 8. The Work Camp uses the maintenance and storage facilities of DCI. No other concerns were noted in this area.

- **AOI 13: Dump Site**

A dump site is located in the southwest corner of the property. The perimeter road abuts the dumpsite to the south and west (Photo 25). The rim canal is located approximately 50 feet south and approximately 70 feet west of the



observed edge of waste. PRIDE agricultural fields form the north and east borders of the dumpsite. The dumpsite is approximately 50 yards by 300 yards in dimension. Vegetation and the height of some of the building debris piles prevented a proper visual reconnaissance of this AOI.

An empty rusty drum without a lid was observed on the northeast side of this. It is not known if the contents of the drum were deposited in the dumpsite.

Most of the dumpsite, visible through the vegetation, appeared to consist of building and demolition debris, construction materials, shingle, asphalt, concrete, soil piles, and scrap metal. Three blue, plastic 55-gallon drums were observed on their sides amongst the waste piles. It is not known if liquids, sludges and solid waste were disposed in this area. The dates of use for this facility are unknown. Mr. Montgomery stated that concrete debris was probably taken to this AOC as late as about four or five years ago. This site is the landfill indicated on the Site Screening Survey (**Section 3.2**) (Photos 26, 27, 28, and 29).

- **AOI 14: IRRIGATION WELLS**

DC maintains two irrigation wells onsite. The one observed was northeast of the Dump Site and directly south of the Farm Maintenance Area (AOI 15). The well is approximately 16-inches in diameter (Photo 30). A pump is connected to the well and the pump rate is not known. Two diesel ASTs and dispensers were located next to the well. No secondary containment is associated with these tanks. Soil staining was observed in this area.

- **AOI 15: FARM MAINTENANCE**

The Farm Maintenance building is located south of the Work Camp, west of the Pesticide and Herbicide Mixing/Storage facility, and east of the Main Unit of



DCI. The Building is also known as “Utility 4” or the “Polebarn.” The building is a polebarn with offices on one side and maintenance bays in the center. No floor drains were observed in the structure. Tractor and farm equipment maintenance is performed at this facility.

Petroleum storage (gasoline, motor oil, diesel, and hydraulic oil) is maintained at this facility on shelving in a locked room (Photo 31). The containers of petroleum ranged from empty to full. Petroleum staining was observed on some of the shelving. No staining was noted on the floor in the petroleum storage area. An empty pesticide fog can was located next to the gasoline cans.

The maintenance area appeared to receive relatively heavy use. Staining was noted on the concrete in this area. The floor of the shop area is swept and washed down nightly. Runoff from the washing operation flows east onto the dirt parking area. Some staining was noted on soils in the parking area. These stains appeared to be associated with vehicles. Due to staining and the flowpath of the runoff, the potential for soil and groundwater contamination from the migration of wash waters to pervious surfaces.

- **AOI 16: PESTICIDE AND HERBICIDE MIXING/STORAGE**

This area is located east of the Maintenance Building (AOI 15) and southeast of the Work Camp. This general area is termed the “Hog Farm,” reflecting past usage of this area. Specifically the Pesticide and Herbicide Mixing/Storage Building is located on the southeast corner of the cattle/hog pens and north of the former waste lagoons associated with the pens and northwest of the burn pit.

The livestock pens, located north of the Pesticide/Herbicide Storage Building and workshed, are used for tool and equipment storage, crop storage, crop washing vats, and packaging supplies for crops. Previously these pens had been used in



the raising of cattle and hogs. The pens were plumbed to the waste lagoons located south of the concrete slab and west of the burn pit. Mr. David Pettitt stated that the line had been capped. He was not sure when this action occurred. Mr. Pettitt holds a Commercial Pesticide License. He supervises fungicide, pesticides and herbicide use at facilities on the target property. No concerns were noted in the livestock pens structure.

The Pesticide and Herbicide Mixing/Storage Building is located on the southeast corner of the former livestock pens. It consists of cinderblock construction with a concrete floor. The building is placarded "Poison 6." A concrete slab extends approximately 20 feet south of the building. This slab is the chemical mixing area. Staining was observed on the concrete and around the joints and cracks in the slab (Photo 32).

A sink is mounted on the southwest corner of the Pesticide and Herbicide Mixing/Storage Building. The sink had a distinct chemical odor like that of pesticides. PVC pipe is plumbed from the sink's drain east along the south foundation of the building. The end of this pipe run is located at the eastern edge of the concrete slab. A pool of clear liquid with clouds of a milky white liquid was located under and east of the pipe end. This pool measured approximately 5 feet by 4 feet with a maximum depth of approximately ½-inch, and was located on the sandy soil. Stressed vegetation was noted around the puddle. Inmates were questioned about the sink's use. The inmates stated the sink is used to wash chemical scoops, measuring devices, personal protective equipment, hands and faces (Photo 32).

The inside of the pesticide/herbicide storage building had a distinct chemical odor. The inside of the structure was sealed with epoxy. No drains were observed. A berm was constructed across the doorway. Plastic spill trays were present under the racks and shelves on which various bottles, cans, boxes and



buckets of chemicals were stored. Chemicals appeared to be stored by name and type. No staining was noted on the floor of the building.

Mr. Petitt was questioned about what was done with any chemical waste and/or heel in containers. He said that containers were triple washed, crushed and burned in a 55-gallon drum in the burn area located approximately 60 feet southwest of the concrete slab. He stated that cardboard is burned on the ground next to the drum.

A wooden workshed is located west of the Pesticide/Herbicide Storage Building. This is used as an office, and personal protective equipment is stored in the building along with some tools. Use oil was observed in open 5-gallon buckets on the south side of this structure. Inmates stated that no chemicals were stored in the workshed.

A metal AST, containing non-potable water, is located south of the pesticide/herbicide storage building. Mr. Petitt stated that it was used to fill agricultural equipment, sprayers, etc.

The burn area consisted of a circular, black, burn scar that was approximately 20 feet in diameter. A rusty, charred 55-gallon drum was located just south of center in the burn scar. Cardboard boxes and crushed plastic containers, some with chemical labeling visible, were stacked inside the drum. The soils in the burn scar had an ashy texture and were stained black. Stressed vegetation was observed around the edge of the burn scar.



## **AOI 17: MEDICAL WASTE STORAGE AREA**

A dumpster for medical waste is located on a new concrete pad close to the DCI Main entrance (Photo 33). The dumpster is locked with a padlock. No staining was observed on, under or around the medical waste dumpster.

### **3.4 SITE VISIT LIMITATIONS**

#### **3.4.1 PHOTOGRAPHY LIMITATIONS**

Florida State Law prohibits photography of incarcerated individuals and severely curtails photography at state correctional institutions. Mr. Charles Vaughn, Construction and Maintenance Supervisor and the Correctional Officer at the security gate entrance to the Maintenance Building area, contacted the Warden upon the arrival of Mr. Jereb and Mr. Blanchard. The Warden granted permission for site access and photography as part of the site visit, with the proviso that no pictures were to be taken of individuals.

#### **3.4.2 ACCESS LIMITATIONS**

Access was limited in three areas: the Flammable Storage Building, the Firing Range, and the Dump Site.

The central locker of the Flammable Storage Building (AOI 2) was locked. Neither Mr. Vaughn nor Mr. Gallagher could locate a key to operate the padlock.

During the site visit, the Firing Range (AOI 9) was in use by the Florida Highway Patrol. As such, this area could not be approached. Pictures were taken of the range from a



distance, personnel were not observed at the range when the photographs were taken; however, the range flag was still flying at this time.

Overgrown vegetation limited visual assessment and further access to the dumpsite (AOI 13).



## **4.0 FINDINGS AND CONCLUSIONS**

- **AREAS OF CONCERN (AOC)**

The following AOC were identified at the target property based upon the AOI identified during the site visit, interviews with site personnel, the Site Screening Survey, and the Records Review. An AOC, is an area that requires further assessment.

- **AOC 1: (AOI 2) FLAMMABLE STORAGE BUILDING**
- **AOC 2: (AOI 9) FIRING RANGE**
- **AOC 3: (AOI 10) AUTO SHOP**
- **AOC 4: (AOI 13) DUMPSITE**
- **AOC 5: (AOI 14) IRRIGATION WELLS**
- **AOC 6: (AOI 15) FARM MAINTENANCE**
- **AOC 7: (AOI 16) PESTICIDE AND HERBICIDE MIXING/STORAGE**

The AOCs will be discussed in detail in the following section.



## **5.0 SITE INVESTIGATION WORK PLAN**

### **5.1 AOC 1: (AOI 2) FLAMMABLE STORAGE BUILDING**

One soil and one ground water sample shall be obtained from areas of staining and/or stressed vegetation. The samples shall be obtained from the area around the paint sink and concrete slab east of the Flammable Storage Building. These samples shall be analyzed for volatile organic compounds, semi-volatile organic compounds, RCRA metals, and total petroleum hydrocarbons.

### **5.2 AOC 2: (AOI 9) Firing Range**

- Reconnaissance of AOI # 9 warrants future site investigation activities. Specific sample locations and laboratory analyses recommendations will be discussed with the FDEP.

### **5.3 AOC 3: (AOI 10) Auto Shop**

A soil and ground water sample will be obtained from the west side of the building directly west of the parts cleaning sink. The boring location shall be as close to the foundation as possible. The samples shall be analyzed for volatile organic compounds, polyaromatic hydrocarbons, and total petroleum hydrocarbons.

One soil and one groundwater sample shall be obtained from the parking area east of the vehicle bays. The samples shall be analyzed for volatile organic compounds, polyaromatic hydrocarbons, RCRA metals, and total petroleum hydrocarbons.



#### **5.4 AOC 4: (AOI 13) DUMPSITE**

- Reconnaissance of AOC # 13 warrants future site investigation activities. Specific sample locations and laboratory analyses recommendations will be discussed with the FDEP.

#### **5.5 AOC 5: (AOI 14) IRRIGATION WELLS**

One soil and one groundwater sample shall be obtained from each of the irrigation well sites. The samples shall be analyzed for volatile organic compounds, polyaromatic hydrocarbons, RCRA metals, total pesticides and herbicides, and total petroleum hydrocarbons.

#### **5.6 AOC 6: (AOI 15) FARM MAINTENANCE**

One soil sample and one groundwater sample shall be obtained from the parking area east of the vehicle bays. The samples shall be analyzed for volatile organic compounds, polyaromatic hydrocarbons, RCRA metals, and total petroleum hydrocarbons.

#### **5.7 AOC 7: (AOI 16) PESTICIDE AND HERBICIDE MIXING/STORAGE**

One soil and one groundwater sample shall be obtained from the area of ponding located at the end of the sink drain line piping. The samples shall be analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides and herbicides, and total petroleum hydrocarbons.

One soil sample and one ground water sample shall be obtained from soil at the edge of the concrete pad. The sampling locations shall be along preferential flowpaths/drainages for wash water runoff. The samples shall be analyzed for



volatile organic compounds, semi-volatile organic compounds, pesticides and herbicides, and total petroleum hydrocarbons.

A groundwater and soil sample shall be obtained from the burn scar in close proximity to the burn drum. The samples shall be analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides and herbicides, and total petroleum hydrocarbons.



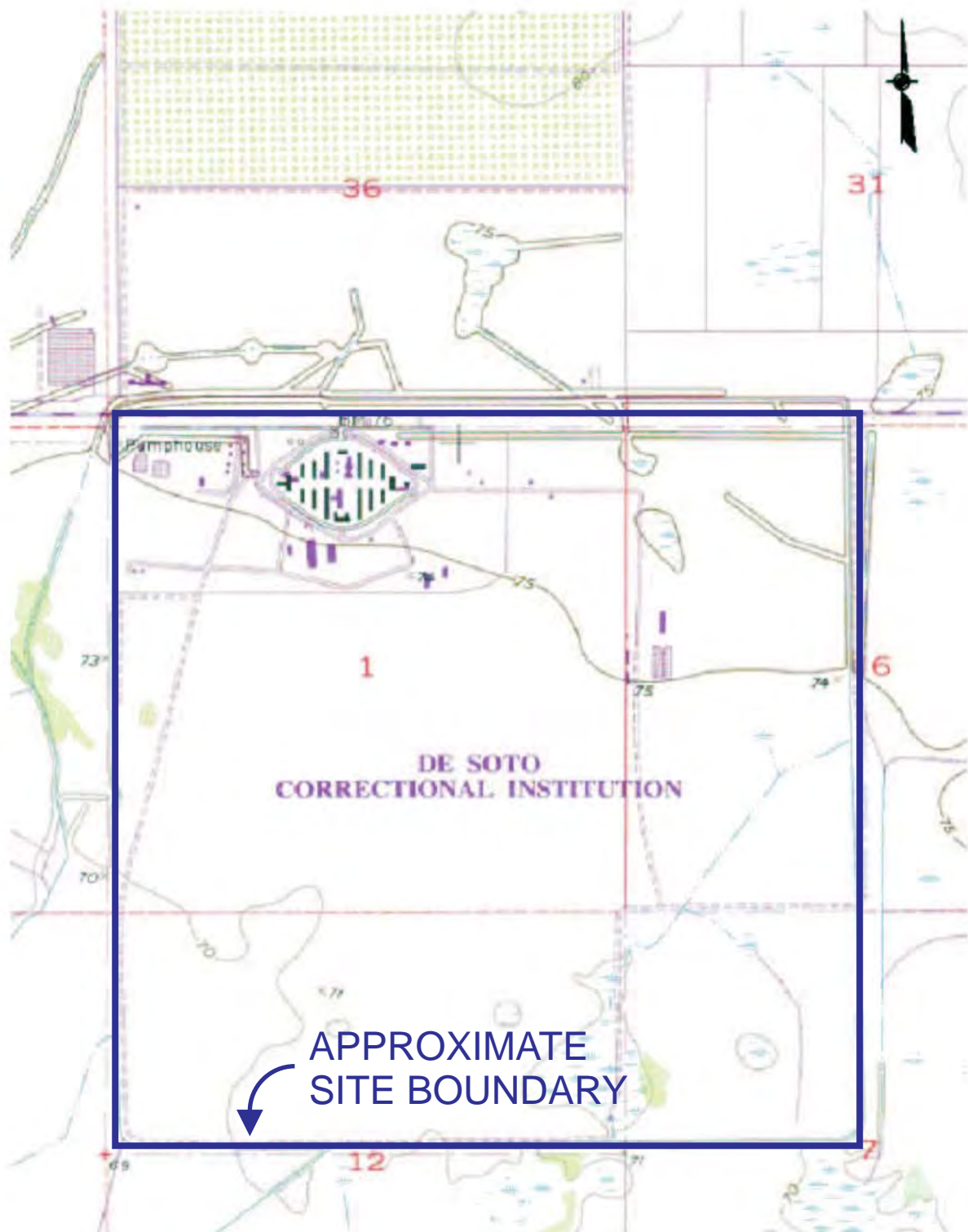
## **6.0 STATEMENT OF LIMITATIONS**

This report is based on information obtained to satisfy the requirements of a work order issued by the Department of Environmental Protection for its State-Owned Lands Cleanup Program. It was prepared for the use of the client and should not be construed to satisfy the professional requirements of a comprehensive environmental audit.



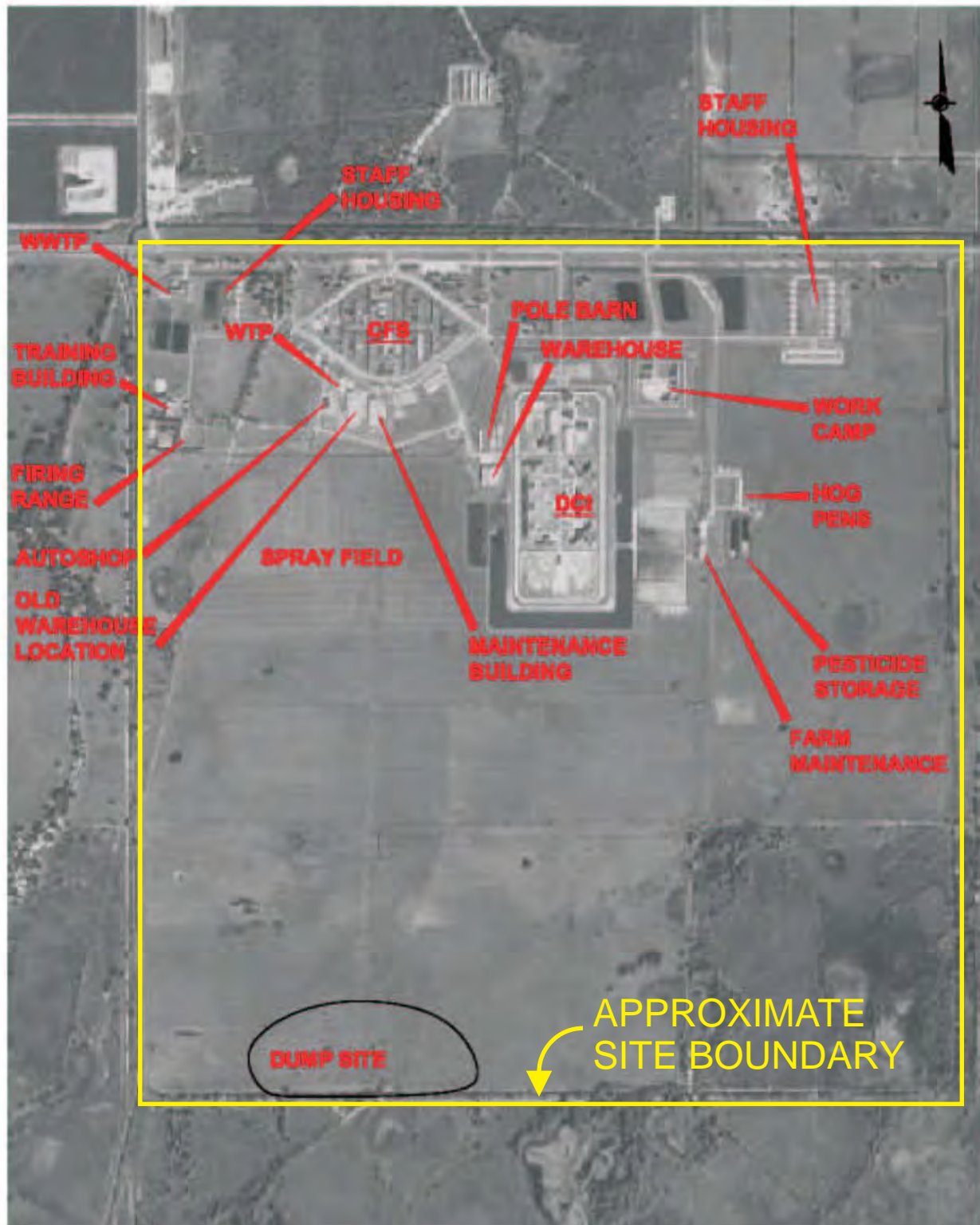
# ***FIGURES***





NOT TO SCALE





## DESOTO CORRECTIONAL INSTITUTION

NOT TO SCALE





# ***APPENDICES***





# ***APPENDIX A***

## State-Owned Lands Cleanup Survey





Jeb Bush  
Governor

# Department of Environmental Protection

Twin Towers Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

David B. Struhs  
Secretary

## State-Owned Lands Cleanup Survey

Site (Lease) Name: Desoto Correctional Institution, Work Camp & Annex – Lease # 2937

Street Address: 13617 SE Highway 70

City, County: Arcadia, Desoto

Contact Person: Jana Friedman or Hallie Coombs

Phone Number: 488-2328

State Agency: Department of Corrections

Lessee, if applicable: Department of Corrections

### 1. Type of Potential Hazards on Site:

YES

NO

- |  |                          |                          |
|--|--------------------------|--------------------------|
| a. Petroleum Products (gasoline, diesel) Stored: | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Mixing Zone for Pesticides or Herbicides:     | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Landfill (in use):                            | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Landfill (closed):                            | <input type="checkbox"/> | <input type="checkbox"/> |
| e. Cleaning Solvents Stored:                     | <input type="checkbox"/> | <input type="checkbox"/> |
| f. Waste Oil Stored:                             | <input type="checkbox"/> | <input type="checkbox"/> |
| g. Cattle Dipping Vats:                          | <input type="checkbox"/> | <input type="checkbox"/> |
| h. Mixing Zone for Fertilizers:                  | <input type="checkbox"/> | <input type="checkbox"/> |
| i. Hazardous Materials/Waste Stored On Site:     | <input type="checkbox"/> | <input type="checkbox"/> |
| j. Other: _____                                  | <input type="checkbox"/> | <input type="checkbox"/> |

### 2. Presence of Physical Indicators of Possible Contamination

Yes

NO

- |  |                          |                          |
|--|--------------------------|--------------------------|
| a. Soil Discoloration:   | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Spills (Describe): _____  |                          |                          |
| c. Impoundments/Pits/Ponds:  | <input type="checkbox"/> |                          |
| □  |                          |                          |
| d. Drums (covered/uncovered; on/off ground): _____                               |                          |                          |
| e. Storage Tanks (above/below ground): <u>There are seven aboveground tanks.</u> |                          |                          |

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**3. Describe the Present and Past Uses of the Site:**

This is a very large prison complex. Some parts of the property are subleased to PRIDE for cattle production. There is other property being subleased to C.F.S. for a large treatment facility under the Jimmy Ryce Act. This system has its own water and wastewater plants also.

**4. Please Provide Any Other Background or Relevant Information:**

There was a gasoline spill outside of the garage, and the spill has been cleaned up. The DEP granted us "NFA" status.

**5. Return Survey by Fax or Mail no later than January 24, 2001 to:**

Bureau of Waste Cleanup  
Attn: Roger Register  
2600 Blair Stone Rd, MS 4505  
Tallahassee, Florida 32399-2400  
FAX Number (850) 922-4368

**6. For information or questions, please contact Roger Register at (850) 413-0062 or Tom Houston at (850) 488-2351.**





# ***APPENDIX B***

## **State-Owned Lands Site Screening Survey**



## State-Owned Lands Site Screening Survey

Interviewee: Charles Vaughn, Maintenance Supervisor  
 Site Name: Desoto Correctional Institute  
 Street Address: 13617 S.E. Highway 70  
 City, County, State, Zip: Arcadia, Desoto County, Florida 34266  
 Agency: Department of Corrections  
 Contact Person: Charles Vaughn  
 Phone Number: 863-494-9385  
 Lessee:

<b>1.</b>	<b>Type of Potential Hazards on Site:</b>	<b>Yes</b>	<b>No</b>
a.	Petroleum Products Stored	<u>X</u>	___
b.	Mixing Zones (pesticides, herbicides)	<u>X</u>	___
c.	Active Landfill (Demo Debris some areas)	<u>X</u>	___
d.	Closed Landfill	<u>X</u>	___
e.	Cleaning Solvents Stored (non-chlorinated)	<u>X</u>	___
f.	Waste Oil Stored	<u>X</u>	___
g.	Mixing Zones (fertilizers)	<u>X</u>	___
h.	Cattle Dipping Vats	___	<u>X</u>
i.	Hazardous Materials/Waste Stored	___	<u>X</u>
j.	Maintenance Area	<u>X</u>	___
k.	Other <u>Transformer</u>	<u>X</u>	___
	Incinerator	___	<u>X</u>
<b>2.</b>	<b>Physical Indicators of Possible Contamination</b>	<b>Yes</b>	<b>No</b>
a.	Soil Discoloration	<u>X</u>	___
b.	Stressed Vegetation	<u>X</u>	___
c.	Odor	___	<u>X</u>
d.	Impoundments/Pits/Ponds (Stormwater regt. System)	<u>X</u>	___
e.	Evidence of Spills (Sheen, Staining, etc.) <u>Sheen on washdown in AOI 10</u>		
	_____		
	_____		
f.	Drums (Location & Condition) <u>Autoshop – Used oil Dump, Flam. Storage Bldg. Warehouse/Voc. building</u>		
	_____		
g.	Storage Tanks (AST/UST & Condition) <u>diesel tanks for Emerg. Gen</u>		
	_____		
h.	Other <u>Med Waste Storage Area</u>		
	_____		



**3. General Property Description**

- a. Past and Present Property Usage USAF/Military 1940's  
1969 – Dept. of Corrections C.I.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- b. Is Property Routinely Utilized by General Public? Yes ☐ No ☒
- c. Property Dimensions ~ 640 acres  
\_\_\_\_\_  
\_\_\_\_\_
- d. Property Topography Flat  
\_\_\_\_\_  
\_\_\_\_\_
- e. General Off-Site Property Usage  
Schools & Day Care ☐ Residential ☐ Industrial ☐  
Commercial ☐ Agricultural ☒ Recreational ☐  
Other Schools 12 miles away  
\_\_\_\_\_  
\_\_\_\_\_
- f. Locations of Nearby Surface Water Bodies Rim Canal  
\_\_\_\_\_  
\_\_\_\_\_
- g. Depth to Groundwater 6 feet
- h. Depth to Principal Drinking Water Aquifer 6 feet
- i. Classification of Aquifer G-II
- j. Number and Proximity of Drinking Water Wells  
Public Within 500 feet ☒ Within ¼ mile ☐ Within ½ mile ☐  
Private Within 500 feet ☐ Within ¼ mile ☐ Within ½ mile ☐  
k. Other \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**4. Describe any observable, imminent, on-site threats to the environment.**





# ***APPENDIX C***

Photolog





**Photo 1. AOI 1: Paint can lids, stained soil and stressed vegetation**





**Photo 2. AOI 2: Flammable storage building**



**Photo 3. AOI 2: Paint sink**





**Photo 4. AOI 2: Stressed vegetation and soil staining**



**Photo 5. AOI 2: Stressed vegetation and soil staining**





**Photo 6. AOI 2: East Locker**



**Photo 7. AOI 2: East Locker**





**Photo 8. AOI 2: Spill in East Locker**



**Photo 9. AOI 2: East Locker**





**Photo 10. AOI 2: Paint waste, flammable storage**



**Photo 11. AOI 2: Floor drain, West Locker**





**Photo 12. AOI 2: West Locker**



**Photo 13. AOI 2: West Locker**





**Photo 14. AOI 4: Storage in paint booth**



**Photo 15 AOI 4: Petroleum storage, small engine repair**





**Photo 16. AOI 10: Grease stains and stressed vegetation**



**Photo 17. AOI 10: Drum storage and stressed vegetation**





**Photo 18. AOI 10: Lubricant storage in auto shop**



**Photo 19. AOI 10: Motor and Anti-Freeze drums**





**Photo 20. AOI 10: Pit in auto shop**



**Photo 21. AOI 10: Buckets of used oil and concrete staining**





**Photo 22. AOI 10: Parts cleaning sink and concrete staining**



**Photo 23. AOI 10: Sheen on wash water**





**Photo 24. AOI 11: 104 Acre Spray Field**



**Photo 25. AOI 13: Dumpsite**





**Photo 26. AOI 13: Dumpsite**



**Photo 27. AOI 13: Rusty Drum**





**Photo 28. AOI 13: Dumpsite; note drums on their sides.**



**Photo 29. AOI 13: Dumpsite**





**Photo 30. AOI 14: (Typical) Irrigation Well and Diesel ASTs.**



**Photo 31. AOI 15: Petroleum Storage in Farm Maintenance Building**



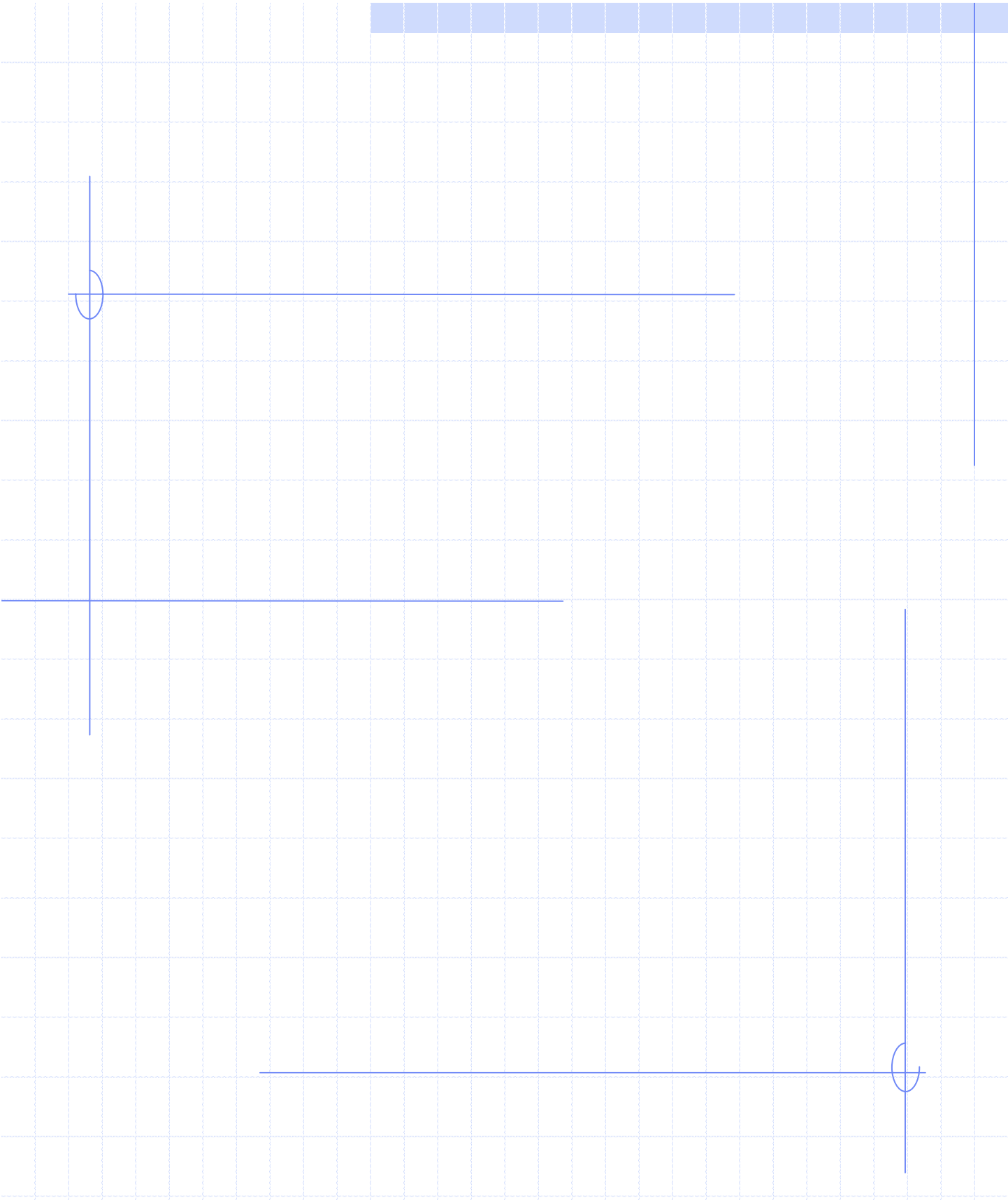


**Photo 32. AOI 16: Herbicide-Pesticide Mixing and Storage Area.**  
**Note: Sink, drain line, and puddle of liquid at east edge of concrete slab.**



**Photo 33. AOI 17: Medical Waste Storage**





Metcalf & Eddy, Inc  
3740 Executive Way, Miramar, FL 33025  
Tel. (954) 450-7770 Fax. (954) 450-5100



Site 14 – Basewide – Dorr Field

FDEP Facility ID: ERIC\_17342

13615 SE Hwy 70

Arcadia, FL 34266



UNCLASSIFIED



# DORR FIELD

Formerly Used Defense Sites Program Management Action Plan

Published by: U.S. Army Corps of Engineers, Environmental Programs

Data as of 2022 Annual Report to Congress

UNCLASSIFIED



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## **I. Statement of Purpose**

### **A. Management Action Plan**

The Management Action Plan (MAP) is to outline the total multi-year environmental cleanup program for a Formerly Used Defense Site (FUDS) property. The plan will define the cleanup program requirements and propose a comprehensive approach and associated costs to conduct future investigations and response action at each cleanup site.

### **B. Formerly Used Defense Sites Program**

During the past two centuries, the Department of Defense (DOD) has used land throughout the United States to both train Soldiers, Airmen, Sailors and Marines, and test new weapons to ensure the nation's military readiness. As training and testing needs changed, DOD obtained property or returned it to private or public uses. When no longer needed, many of these properties were cleaned up according to the best practices available at the time and then transferred to other owners such as private individuals or federal, state, tribal, or local government entities.

Today, DOD is responsible for the environmental restoration (cleanup) of properties that were formerly owned by, leased to or otherwise possessed by the United States and under the jurisdiction of the Secretary of Defense prior to October 1986. Such properties are known as Formerly Used Defense Sites or FUDS. The U.S. Army is DOD's lead agent for the FUDS Program. The U.S. Army Corps of Engineers executes the FUDS Program on behalf of the U.S. Army and DOD. The U.S. Army and DOD are dedicated to protecting human health and the environment by investigating and, if required, cleaning up potential contamination or munitions that may remain on these properties from past DOD activities.

The scope and magnitude of the FUDS Program are significant, with more than 10,000 properties identified for potential inclusion in the program. Information about the origin and extent of contamination or munitions, land transfer issues, past and present property ownership, applicable laws and DOD policies must be evaluated before DOD considers a property eligible for Defense Environment Restoration Account funding under the FUDS Program. Environmental cleanup at FUDS properties is conducted under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).



### **C. Installation Restoration Program (IRP)**

Installation Restoration Program (IRP) category projects include sites that require response actions to address releases of: (a) Hazardous substances and pollutants or contaminants; (b) Petroleum, Oil, and Lubricants (POLs); (c) Hazardous wastes or hazardous waste constituents; and (d) Explosive compounds released to soil, surface water, sediment, or groundwater as a result of ammunition or explosives production or manufacturing at ammunition plants.

The relative risk site evaluation (RRSE) framework is a methodology used by all DoD Components to evaluate the relative risk posed by a site in relation to other sites. It is a tool used across all of DoD to group sites into high, medium, and low categories based on an evaluation of site information using three factors: the contaminant hazard factor (CHF), the migration pathway factor (MPF), and the receptor factor (RF). Factors are based on a quantitative evaluation of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) hazardous substances, pollutants, or contaminants and a qualitative evaluation of pathways and human and ecological receptors in the four media most likely to result in significant exposure groundwater, surface water, sediment, and surface soils.

### **D. Military Munitions Response Program (MMRP)**

In 2001, DoD established the Military Munitions Response Program (MMRP). The MMRP addresses munitions response sites (MRSs) at Formerly Used Defense Site locations. MRSs are sites that are known or suspected to contain unexploded ordnance, discarded military munitions, or munitions constituents (MC). Through the MMRP, DoD complies with environmental cleanup laws, such as the Comprehensive Environmental Response, Compensation, and Liability Act, also known as Superfund.

To prioritize funding and cleanup of MRSs that pose the greatest threat to safety, human health, and the environment, DoD uses the Munitions Response Site Prioritization Protocol (MRSP). The MRSP consists of three separate modules to evaluate hazards associated with explosives, chemical warfare materiel, MC, and other incidental environmental contaminants. The MRSP scores affect how DoD sequences MRSs for cleanup. In addition to relative risk, DoD considers other factors such as economic, programmatic, and stakeholder concerns, as well as reuse and redevelopment plans, when prioritizing sites for cleanup.



## II: Acronyms

<b>BD/DR</b>	Building Demolition and Debris Removal
<b>CERCLA</b>	Comprehensive Environmental Response, Compensation, and Liability Act
<b>CHE</b>	Chemical Warfare Material Hazard Evaluation
<b>COMM/REL</b>	Community Relations
<b>CON/HTRW</b>	Containerized/Hazardous, Toxic and Radioactive Waste
<b>CTC</b>	Cost to complete
<b>CWM</b>	Chemical Warfare Material
<b>DD</b>	Decision Document
<b>DERP</b>	Defense Environmental Restoration Program
<b>DOD</b>	Department of Defense
<b>EE/CA</b>	Engineer Evaluation/Cost Analysis
<b>EHE</b>	Explosive Hazard Factor
<b>EP</b>	Evaluation Pending
<b>FFA</b>	Federal Facilities Agreement
<b>FUDS</b>	Formerly Used Defense Sites
<b>FUDSMIS</b>	Formerly Used Defense Sites Management Information System
<b>FS</b>	Feasibility Study
<b>HQDA</b>	Headquarters, Department of the Army
<b>HHE</b>	Health Hazard Evaluation
<b>IAG</b>	Interagency Agreement
<b>IRA</b>	Interim remedial action
<b>IRP</b>	Installation Restoration Program
<b>LTM</b>	Long Term Management
<b>MAP</b>	Management Action Plan
<b>MMRP</b>	Military Munitions Response Program
<b>MMRP/CWM</b>	Military Munitions Response Program/Chemical Warfare Materials
<b>MRSP</b>	Military Munitions Site Prioritization Protocol
<b>NKSH</b>	No Known or suspected Hazard
<b>NLR</b>	No Longer Required
<b>NPL</b>	National Priorities List
<b>PA</b>	Preliminary Assessment
<b>PA/INPR</b>	Preliminary Assessment/Inventory Project Report
<b>PCO</b>	Project Closeout
<b>PN</b>	Preliminary Negotiations
<b>QA</b>	Quality Assurance
<b>RA</b>	Remedial Action
<b>RA-C</b>	Remedial Action-Construction
<b>RA-O</b>	Remedial Action-Operations
<b>RAB</b>	Restoration Advisory Board
<b>RC</b>	Response Complete



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<b>RCRA</b>	Resource Conservation and Recovery Act
<b>RD</b>	Remedial Design
<b>RmA-C</b>	Removal Action-Construction
<b>RmD</b>	Removal Design
<b>RI/FS</b>	Remedial Investigation/Feasibility Study
<b>RIP</b>	Remedy in Place
<b>ROD</b>	Record of Decision
<b>RRSE</b>	Relative Risk Site Evaluation
<b>SI</b>	Site Investigation
<b>TAPP</b>	Technical Assistance for Public Participation
<b>TRC</b>	Technical Review Committee



### III. Property Information

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**FUDS Number:** I04FL0118

**FFID:** FL49799F715900

**Name:** DORR FIELD

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#### A. Property Description

LOCATED 5 MILES SE OF CITY OF ARCADIA.

#### B. Locale

**City:** ARCADIA

**State:** FL

**Latitude:** 27.20194444

**Longitude:** -81.66944444

**Congressional District:** 17

**Size (Acreage):** No acreage reported

#### C. Organization

**Division:** South Atlantic Division

**District:** Jacksonville District

**Phone:** 904-232-2235

#### Current Owners:

Type	Name
Other	OTHER

#### D. National Priorities List Status

The National Priorities List (NPL) is the list of national priorities among the known releases or threatened releases of hazardous substances, pollutants, or contaminants throughout the United States and its territories. The NPL is intended primarily to guide the EPA in determining which sites warrant further investigation.

**National Priorities List (NPL) Status:** Not on the NPL



**E. Project Summaries**

The below table outlines all projects that have been identified on this FUDS property. The table provides information on the category of project, the legal driver, the RRSE or MRSPS score that is used for prioritization, the total funding for the project, the status of work on the project, and the actual or anticipated remedy in place and response complete dates.

Project Number	Category	Name	Legal Driver	RRSE	MRSPS	Status	RIP	RC
0	PA/INPR	PA/INPR Funding				Complete		



## **IV. Cleanup Program Summary**

### **A. Historic Activity**

IN 1917-1918 US LEASED 640 ACRES FOR AN ARMY AVIATION CAMP.



## V. Installation Restoration Program (IRP)

### A. IRP Summary

**Inception of IRP:** No IRP projects have been reported

**Projects Identified:** 0

**Projects at Response Complete:** 0

**Remedy-in-Place (RIP):** No RIP scheduled

**Response Complete (RC):** No RC scheduled

**IRP completion (including LTM):** No IRP projects have been reported

### B. IRP Schedule

#### Project Schedule

There are no IRP projects on this installation.

#### Five-Year Review

**Status:** No Reviews Planned

### C. Project Descriptions

Please see **Appendix I** for detailed IRP project descriptions



**D. Costs**

**Funding To Date\* (\$K): 0**

**2022 Funding (\$K): 0**

**CTC (\$K): 0**

There are no IRP project costs on this installation.

\*Past costs are approximate and not inflated to reflect current year fiscal dollars.



## **VI. Military Munitions Response Program (MMRP)**

### **A. MMRP Summary**

**Inception of MMRP:** No MMRP projects have been reported

**Projects Identified:** 0

**Projects at Response Complete:** 0

**Remedy-in-Place (RIP):** No RIP scheduled

**Response Complete (RC):** No RC scheduled

**MMRP completion (including LTM):** No MMRP projects have been reported

### **B. MMRP Schedule**

#### **Project Schedule**

There are no MMRP projects on this installation.

#### **Five-Year Review**

**Status:** No Reviews Planned

### **C. Project Descriptions**

Please see **Appendix II** for detailed MMRP project descriptions



**D. Costs**

**Funding To Date\* (\$K): 0**

**2022 Funding (\$K): 0**

**CTC (\$K): 0**

There are no MMRP project costs on this installation.

\*Past costs are approximate and not inflated to reflect current year fiscal dollars.



## VII. Community Involvement

Since 1993, the Department of Defense (DOD) has supported the development, implementation, and maintenance of the Restoration Advisory Board (RAB) program. Through the RAB program, communities provide input into the decision - making process of DOD's environmental cleanup program. A RAB is a group, equally co - chaired by a DOD representative and a community member, that serves as a forum for exchange of information between government officials and members of the local community on property cleanup issues. In addition to regular RAB meetings, a combination of activities may be conducted to enhance this process. Such activities may include coordinating installation site tours or providing interactive presentations with the use of cleanup technology models. Members of a RAB may include local citizens and representatives of the U.S. Environmental Protection Agency (EPA) and state, local, and tribal governments. The RAB team should reflect the diverse interests of the community and help identify possible issues associated with an installation's environmental cleanup program. RABs provide a link between the community and cleanup decision makers, and should complement other community involvement activities, such as holding public meetings, distributing informative mailings to the public on installation cleanup activities, and establishing local information repositories.

In fiscal year 1998 (FY98), DOD continued to build trust with local communities surrounding military installations by strengthening the RAB program and making new resources available; including the implementation of the Technical Assistance for Public Participation (TAPP) program. The TAPP program was designed to help community members of RABs and TRCs better understand the scientific and engineering issues underlying their properties' environmental cleanup activities. Under TAPP, the installation may contract for an independent technical consultant to advise the RAB on a specific project, which must be identified in the TAPP application. Typical projects may involve reviewing proposed remedial technologies, interpreting health and environmental effects data, or reviewing cleanup documents.

**No RAB has been reported**



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## **APPENDIX I**

### **IRP Project Descriptions**

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There are no IRP projects on this installation.



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## **APPENDIX II**

### **MMRP Project Descriptions**

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There are no MMRP projects on this installation.



Site 16 – Desoto Recycling & Disposal

FDEP Facility ID: 95046

13250 NE Hwy 70

Arcadia, FL 34266



**SEMI-ANNUAL SAMPLING REPORT - MAY 2024**

Conducted at:

**DESOTO RECYCLING AND DISPOSAL  
13250 NE Highway 70  
Arcadia, Desoto County, Florida  
FDEP WACS I.D.# 95046**

**EAC Project No. 18-0334 / 0334A**

Conducted for:

**Desoto Recycling and Disposal, LLC  
Arcadia, Florida**

Conducted by:

**Environmental Assessments & Consulting  
1876B Barber Road, Suite 200  
Sarasota, Florida**

**July 9, 2024**



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## **FIGURES**

Figure 1	Site Plan / Monitor Well & Surface Water Sample Location Map
Figure 2	Groundwater Elevation Contour Map (5/29/2024)

## **APPENDICES**

Appendix I	Tables (Table 1 - Groundwater Monitoring Well Analytical Summary / Table 2 - Surface Water Analytical Summary / Table 3 - Groundwater Elevation Summary / Table 4 - Groundwater Monitoring Well / Surface Water Field Parameters)
Appendix II	Laboratory Analytical Reports / Chain-of-Custody Forms
Appendix III	Groundwater Sampling Logs
Appendix IV	Field Equipment Calibration Records
Appendix V	Water Quality Monitoring Certificate





July 9, 2024

EAC Project No.: 18-0334 / 0334A

**Desoto Recycling and Disposal, LLC**

Mr. Len Meyer  
13620 NW Highway 70  
Arcadia, Florida 34266

**RE: SEMI-ANNUAL SAMPLING REPORT - DRD LANDFILL - 13250 NE HIGHWAY 70 -  
ARCADIA - DESOTO COUNTY - FLORIDA (FDEP WACS # 95046)**

Dear Mr. Meyer:

Environmental Assessments & Consulting (EAC) is submitting this Semi-Annual Sampling Report as outlined within proposal 18-0334A (executed on May 22, 2018).

**Groundwater Sampling**

On May 29 / 30, 2024 EAC mobilized to the facility to conduct groundwater sampling. Groundwater samples were collected from MW-3 (29468) and MW-8 (23040) through MW-21 (30686). Please note that historic designations of the wells (May 2019) were MW-A through MW-M and MW-3. The designations were changed by the FDEP to MW-7 through MW-19 and MW-3, with MW-20R and MW-21 being added as the landfill expanded. In all attachments the wells have been identified with not only the old designation but the new one as well. The ADaPT data reflects the new designations. Due to expansion of the landfill, MW-7 (23039) was properly abandoned and MW-20 (30685) and MW-21 (30686) were installed (November 16, 2022 - abandonment / installation activities reported under separate cover). However, during the May 2023 sampling event MW-20 (30685) was found destroyed. This well was replaced on August 4, 2023 with MW-20R (30685).

Groundwater samples collected from MW-3 (29468) and MW-8 (23040) through MW-21 (30686) were analyzed in the laboratory for Arsenic, Cadmium, Chromium, Iron, Lead, and Sodium via EPA Method 6010; Mercury via EPA Method 7470A; Chloride and Nitrate via EPA Method 300.0; Ammonia via EPA Method 350.1, Total Dissolved Solids (TDS) via Standard Method 2540C; and 40 CFR Part 258 Appendix I Compounds via several EPA Methods (6010, 6020, and 8260).



Groundwater purging and sampling conducted by EAC was performed in accordance DEP-SOP-001/01 (FS 2200 Groundwater Sampling - Revised January 2017 / Effective April, 16, 2018). The locations of all monitor wells can be found in **Figure 1**.

Groundwater purging was accomplished utilizing a portable low flow Masterflex L/S Peristaltic Pump and a dedicated section of silicon tubing through the pump head and high density polyethylene tubing set to the middle of the water column. During purging, the purge rate was calculated utilizing a graduated container.

In addition, temperature, pH, conductivity, dissolved oxygen, turbidity, and depth to groundwater readings were obtained and recorded. Additional readings were collected and recorded at 2-4 minute intervals. The groundwater sampling logs for this project, have been attached as **Appendix III**. The field collected data (water level, dissolved oxygen, pH, specific conductivity, temperature, turbidity and other observations - colors / sheen) is summarized within **Table 4**. Upon achieving three (3) consecutive stable groundwater readings, groundwater samples were collected from the wells using the peristaltic pump. Groundwater samples were collected through the pumphead. Groundwater samples collected from the above wells were then capped, labeled, packed on ice, and transported to Pace Analytical Services, LLC (Pace) in Oldsmar, Florida for analysis. The groundwater sample kits were provided to EAC by Pace.

### **Groundwater Sampling Results**

As indicated within the laboratory analytical results, the following analytes were detected in excess of the Groundwater Cleanup Target Levels (GCTLs) as established within Florida Administrative Code (FAC) Chapter 62-777. **Note:** all monitoring well identifications (MW-8) are followed by their Test Site ID (eg. 23040).

Iron was detected within MW-3 (29468), MW-8 (23040), MW-9 (23041), MW-10 (23042), MW-11 (23043), MW-12 (23044), MW-13 (23045), MW-14 (23046), MW-15 (23047), MW-16 (30602), MW-17 (23049), MW-18 (23050), MW-19 (23051), MW-20R (30685) and MW-21 (30686) at concentrations of 14,400 micrograms per Liter ( $\mu\text{g/L}$ ), 68,000 $\mu\text{g/L}$ , 5,050 $\mu\text{g/L}$ , 39,700 $\mu\text{g/L}$ , 24,900 $\mu\text{g/L}$ , 2,830 $\mu\text{g/L}$ , 2,260 $\mu\text{g/L}$ , 12,300 $\mu\text{g/L}$ , 78,200 $\mu\text{g/L}$ , 44,200 $\mu\text{g/L}$ , 23,500 $\mu\text{g/L}$ , 23,500 $\mu\text{g/L}$ , 9,920 $\mu\text{g/L}$ , 17,600 $\mu\text{g/L}$  and 61,300 $\mu\text{g/L}$ , respectively. These concentrations exceed the GCTL of 300 $\mu\text{g/L}$ .



Arsenic was detected within MW-15 (23047) and MW-18 (23050) at concentrations of 39.4µg/L and 11.7µg/L, respectively. These concentrations slightly exceed the GCTL of 10.0µg/L.

Nitrogen / Ammonia was detected within MW-8 (23040), MW-15 (23047), and MW-16 (30602) at concentrations of 6,900µg/L, 32,600µg/L, and 16,900µg/L, respectively. These concentrations exceed the GCTL of 2,800µg/L.

Total Dissolved Solids (TDS) were detected within MW-3 (29468), MW-8 (230040), MW-10 (23042), MW-11 (23043), MW-15 (23047), MW-16 (30602), and MW-21 (30686), at concentrations of 1,580,000µg/L, 726,000µg/L, 966,000µg/L, 603,000µg/L, 524,000µg/L, 503,000µg/L, and 571,000µg/L, respectively. These concentrations exceed the GCTL of 500,000µg/L.

Chloride was detected within MW-3 (29468) at a concentration of 417,000µg/L. This concentration exceeds the GCTL of 250,000µg/L.

No other analytes were detected in excess of the GCTLs. The complete summary of the groundwater analytical results have been included as **Table 1**.

### **Surface Water Sampling**

On May 29, 2024 EAC mobilized to the facility to collect surface water samples. During the sampling event surface water locations SW-2 (23053) through SW-5 (23056) were to be sampled. These locations are presented on **Figure 1**. However, at the time of the sampling, the surface water features were dry. The analytical summary of the surface water samples collected in the past is included as **Table 2**.

### **Groundwater Flow**

Top of Casing (TOC) elevations of the monitor wells were established by Weber Engineering and Surveying, Inc. The methods of which the TOC elevations were measured was via survey rod and level as well as GPS data. Fluid levels in each of the other monitor wells sampled were determined using an interface probe which allows measurement of the depth to the water table to within 0.01'. By applying the gauging data to the survey data (See Groundwater Elevation Data - **Table 3**), groundwater elevations for the monitor wells were obtained. Groundwater flow across the northern portion of the facility has been determined to be generally west to southwesterly direction.



Groundwater flow is radial within the vicinity of the Leachate Pits and in a south / southeasterly direction in the southern portion of the site. A Groundwater Elevation Contour Map (5/29/2024) is included as **Figure 2**.

## **Discussion**

### **Groundwater**

The following is a Table of analytes that have been detected within the groundwater in excess of the GCTL / MCLs as stipulated within FAC Chapter 62-777 / 62-550 within the current sampling event. All sampling events are summarized within **Table 1**.

<b>Compound</b>	<b>Location</b>	<b>Concentration</b>	<b>GCTL / MCL</b>	<b>Background Concentration</b>
<b>Arsenic</b>	MW-15 (23047)	39.4µg/L	10µg/L	8.6µg/L
	MW-18 (23050)	11.7µg/L	10µg/L	3.0µg/L
<b>Iron</b>	MW-3 (29468)	14,400µg/L	300µg/L	1,900µg/L
<b>Iron</b>	MW-8 (23040)	68,000µg/L	300µg/L	4,500µg/L
	MW-9 (23041)	5,050µg/L	300µg/L	5,600µg/L
	MW-10 (23042)	39,700µg/L	300µg/L	7,300µg/L
	MW-11 (23043)	24,900µg/L	300µg/L	930µg/L
	MW-12 (23044)	2,830µg/L	300µg/L	15,000µg/L
	MW-13 (23045)	2,260µg/L	300µg/L	38,000µg/L
	MW-14 (23046)	12,300µg/L	300µg/L	42,000µg/L
	MW-15 (23047)	78,200µg/L	300µg/L	8,600µg/L
	MW-16 (30602)	44,200µg/L	300µg/L	11,000µg/L
	MW-17 (23049)	23,500µg/L	300µg/L	10,000µg/L
	MW-18 (23050)	55,300µg/L	300µg/L	6,700µg/L
	MW-19 (23051)	9,920µg/L	300µg/L	5,700µg/L
	MW-20R (30885)	17,600µg/L	300µg/L	9,620µg/L
	MW-21 (30686)	61,300µg/L	300µg/L	36,000µg/L
<b>Ammonia (as N)</b>	MW-8 (23040)	6,900µg/L	2,800µg/L	330µg/L
	MW-15 (23047)	32,600µg/L	2,800µg/L	800µg/L
	MW-16 (30602)	16,900µg/L	2,800µg/L	5,800µg/L
<b>Total Dissolved Solids</b>	MW-3 (29468)	1,580,000µg/L	500,000µg/L	1,300,000µg/L
	MW-8 (23040)	726,000µg/L	500,000µg/L	300,000µg/L
	MW-10 (23042)	966,000µg/L	500,000µg/L	110,000µg/L
	MW-11 (23043)	603,000µg/L	500,000µg/L	160,000µg/L



Compound	Location	Concentration	GCTL / MCL	Background Concentration
<b>Total Dissolved Solids</b>	MW-15 (23047)	524,000µg/L	500,000µg/L	220,000µg/L
	MW-16 (30602)	503,000µg/L	500,000µg/L	350,000µg/L
	MW-21 (30686)	571,000µg/L	500,000µg/L	384,000µg/L
<b>Chloride</b>	MW-3 (29468)	417,000µg/L	250,000µg/L	120,000µg/L

The current sampling event (May 2023) indicated that Iron was detected within all monitoring points in excess of the GCTL / MCL. In comparison to the Initial / Background sampling event (May 2018) as well as the November 2018, May 2019, November 2019, May 2020, November 2020, May 2021, November 2021, May 2022, November 2022, May 2023 and November 2023 Semi-Annual sampling events the concentrations of Iron have fluctuated within the wells. Eleven (11) wells (MW-3 (29468), MW-8 (23040), MW-10 (23042), MW-11 (23043), MW-15 (23047), MW-16 (30602), MW-17 (23049), MW-18 (23050), MW-19 (23051), MW-20R (30685) and MW-21 (30685)) exhibited concentrations in excess (greater than 15%) of the background. However, four (4) wells (MW-9 (23041), MW-12 (23044), MW-13 (23045), MW-14 (23046)) exhibited concentrations at or below (within 15%) background concentrations. In addition, five (5) wells (MW-8 (23040), MW-10 (23042), MW-15 (23047), MW-17 (23049), and MW-20R (30685), although above background exhibited concentrations less than the prior (November 2023) sampling event.

In comparison to the prior sampling event (November 2023), concentrations within MW-3 (29468), MW-9 (23041), MW-11 (23043), MW-14 (23046), MW-16 (30602), MW-18 (23050), MW-19 (23051), and MW-21 (30686) have increased (above 15% of the last sampling event). Concentrations have decreased or remained stable (15% or less of the last sampling event) within MW-8 (23040), MW-10 (23042), MW-12 (23044), MW-13 (23045), MW-15 (23047), MW-17 (23049), and MW-20R (30685). Based upon the exceedances within the background sampling event at all wells, which suggests that Iron is naturally occurring in excess of the GCTL / MCL, it appears as though the concentrations of Iron will fluctuate over time and should continue to be monitored. In addition, when comparing all sampling events at all wells, none have had significant consistent increases.

At MW-15 (23047) and MW-18 (23050) Arsenic was detected in excess of the GCTL / MCL (10µg/L) at concentrations of 39.4µg/L and 11.7µg/L, respectively. The concentrations have fluctuated within MW-15 (23047) ranging from 22µg/L in November 2018 to 45.1 in May 2022, with the current concentration being 39.4µg/L. The concentrations have fluctuated within MW-18 (23050) ranging from below detection limits (2.1µg/L) in November 2018, to 17.3µg/L in November 2022, with the current concentration being 11.7µg/L. At MW-18 (23050), of the thirteen (13)



sampling events, four (4) have been above the GCTL and none have been above 20µg/L. Background sampling within these locations (MW-15 (23047) and MW-18 (23050)) indicated that measurable concentrations of Arsenic were detected. During the Initial / Background sampling (May 2018) and / or subsequent Semi-Annual sampling events (November 2018 / May 2019 / November 2019 / May 2020 / November 2020, May 2021 / November 2021, May 2022, November 2022, May 2023 and November 2023) Arsenic was also detected (at one time or another) at MW-3 (29468), MW-7 (23039), MW-9 (23041), MW-10 (23042), MW-11 (23043), and MW-19 (23051) albeit at concentrations below the GCTL / MCL. Arsenic being present within the majority of the wells at detectable concentrations, as well as fluctuations (above and below the GCTLs) within MW-8 (23040), MW-12 (23044), MW-13 (23045), MW-14 (23046), MW-15 (23047), MW-16 (30602), MW-17 (23049) and MW-18 (23050) during the sampling period (May 2018 through May 2024), indicates that the Arsenic impacts appear to be naturally occurring and should continue to be monitored.

The concentration of Ammonia (as N) was detected in excess of the GCTLs at MW-8 (23040), MW-15 (23047), and MW-16 (30602). In comparison to the Initial / Background sampling event (May / July 2018) the concentrations of Ammonia (as N) has increased within the wells, however Ammonia (as N) was discovered in excess of the GCTL at MW-16 (30602) during the Initial / Background sampling event (July 2018). At MW-8 (23040) the concentrations have increased slightly during the sampling events conducted in November 2021, May 2022 & November 2022, remained consistent during the May 2023 sampling event, once again increased slightly during the November 2023 sampling event and decreased during the May 2024 sampling event. At MW-15 (23047) the current concentration is higher than that of the November 2023 sampling event, however the concentrations have stayed relative the same within the last six (6) sampling events (November 2021 through May 2024). Post background sampling (May 2018), the concentrations within MW-15 (23047) have fluctuated within this well from a low of 20,000µg/L to a high of 45,100µg/L. Post the background sampling event (November 2018) the concentration (5,800µg/L) at MW-16 (30602) steadily increased to a high of 23,800µg/L in May 2021, followed by a decrease in November 2021 through May 2024. Ammonia (as N) should continue to be monitored in subsequent sampling events.



Total Dissolved Solids were detected in excess of the GCTL at MW-3 (29468), MW-8 (23040), MW-10 (23042), MW-11 (23043), MW-15 (23047), MW-16 (30602), and MW-21 (30686) . When compared to the prior sampling event (November 2023) the concentrations within MW-16 (30602), and MW-21 (30686) have slightly increased. In addition, the concentration within MW-3 (29468) has also increased since the last sampling event (May 2023). However, concentrations have remained stable (within 15%) or decreased within MW-8 (23040), MW-10 (23042), MW-11 (23043), MW-15 (23047), MW-17 (23049), MW-18 (23050), and MW-20R (30685). It also should be noted that at MW-3 (29468) and MW-16 (30602) Total Dissolved Solids were detected in excess of the GCTL during the background sampling (5/2018 & 7/2018, respectively). Total Dissolved Solids should continue to be monitored in subsequent sampling events.

Chloride was detected within MW-3 (19468) at a concentration of 417,000µg/L. This concentration exceeds the GCTL of 250,000µg/L. Chloride has been detected within this well three (3) times, May 2018, November 2020 and May 2024. The concentrations have ranged from 88,100µg/L to 445,000µg/L. It is recommended that this well continue to be monitored for Chloride.

### **Conclusions**

As indicated within the laboratory results Iron has been identified in excess of the regulatory standards within all of the on-site wells and Arsenic was discovered in excess of the regulatory standard within two (2) (MW-15 (23047) and MW-18 (23050)) wells. The presence of Arsenic and Iron are most likely attributed to being background / naturally occurring in nature as the property has been used for agricultural purposes in the past (grazing) with no known source of these compounds.

Ammonia was detected within MW-8 (23040), MW-15 (23047), and MW-16 (30602) in excess of the GCTL. During the background sampling, Ammonia was not detected in excess of the GCTL at MW-8 (23040) or MW-15 (23047) however was detected in excess of the GCTL (2,800µg/L) within MW-16 (30602). EAC recommends continued monitoring as outlined within the monitoring requirements (semi-annually).

Total Dissolved Solids (TDS) were detected in excess of the GCTL at MW-3 (29468), MW-8 (23040), MW-10 (23042), MW-11 (23043), MW-15 (23047), MW-16 (30602), and MW-21 (30686). However, concentrations have remained stable (within 15%) or decreased within the other wells.



Also of note is the fact that TDS was detected in excess of the GCTL within the background sampling for MW-3 (29468) and MW-16 (30602). EAC would recommend continued monitoring as outlined within the monitoring requirements (semi-annually).

Based upon the May 2024 sampling event, EAC recommends the continuation of the semi-annual sampling. This is the tenth sampling event since the initial / background with fluctuating results.

Should you have any questions regarding this report, please feel free to call us at (941) 378-8844.

Respectfully submitted,

**Environmental Assessments & Consulting**

Chris J. Fraser

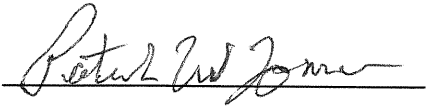
Division Manager



### Statement of Professional Review

The discussions and conclusions contained in this Semi-Annual Sampling Event (May 2024) have been reviewed by Patrick Zomer, Senior Professional Engineer for EAC.

I, Patrick Zomer, PE, License No. 62238, certify that I currently hold an active license in the state of Florida and am competent through education and experience to provide the engineering service contained in this report. I further certify that, in my professional judgment, this report generally meets the requirements of Chapter 62-780, FAC and was prepared by me or under my responsible charge. Moreover, I certify that EAC previously held an active Certificate of Authorization No. 9893 to provide the engineering service, which was rolled over into the new registry. Utilization of this report by other parties is at their risk and the engineer is not liable for consequences or damages extending therefrom. No other warranty is expressed or implied as to the conclusions contained in this report. This report was prepared by Environmental Assessments & Consulting.

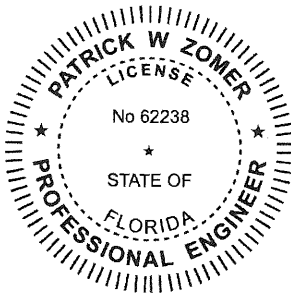


7/11/2024

Patrick Zomer

Date

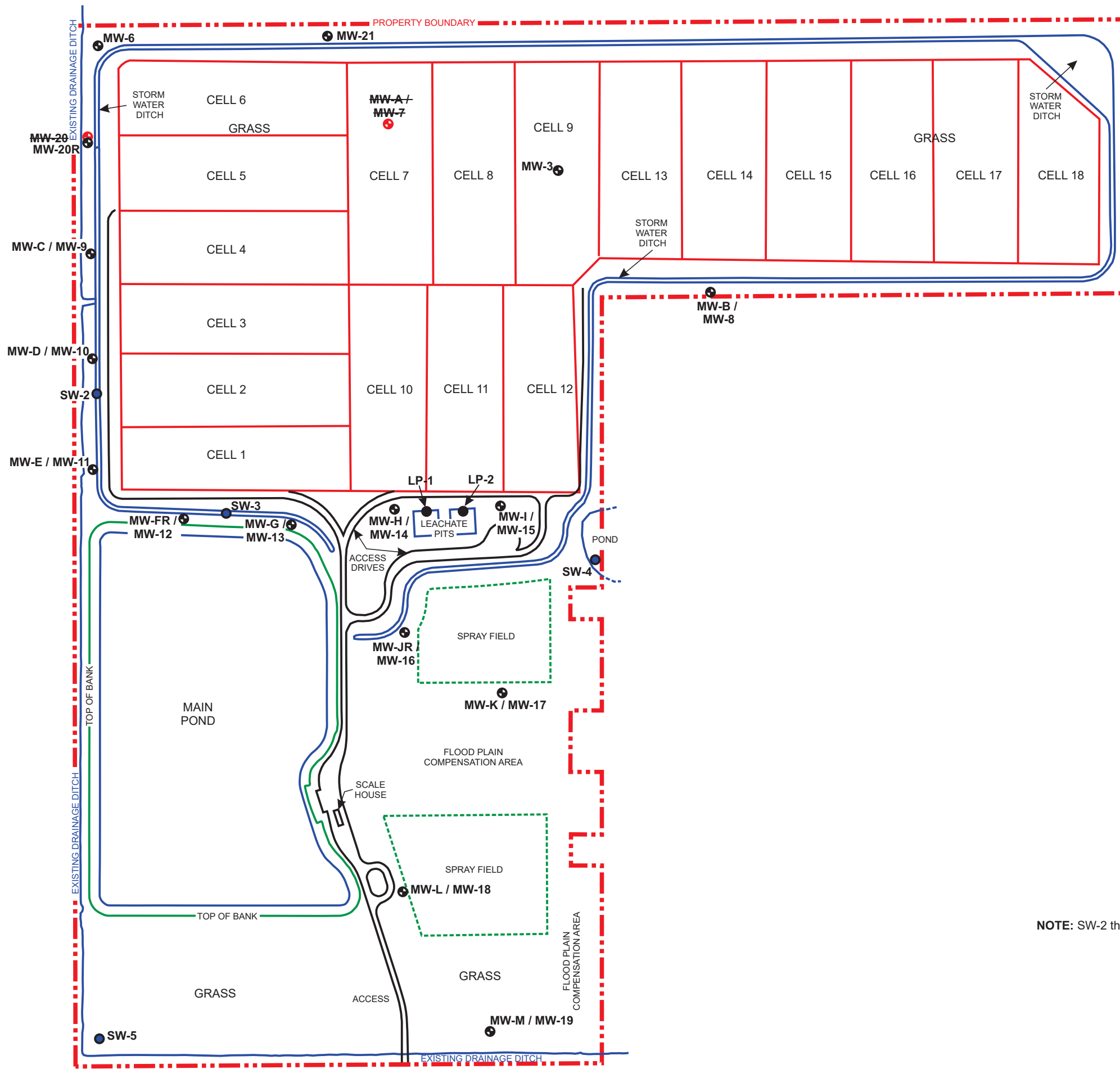
Florida License No.: P.E.- 62238





## FIGURES





NOTE: SW-2 through SW-5 Dry During May 2022 Sampling Event

**LEGEND**

- MW-1 Monitor Well Location
- MW-4 Monitor Well Location Abandoned / Destroyed
- SW-4 Surface Water Sample Location
- LP-1 Leachate Pit Water Sample Location (Historical)

Environmental Assessments & Consulting

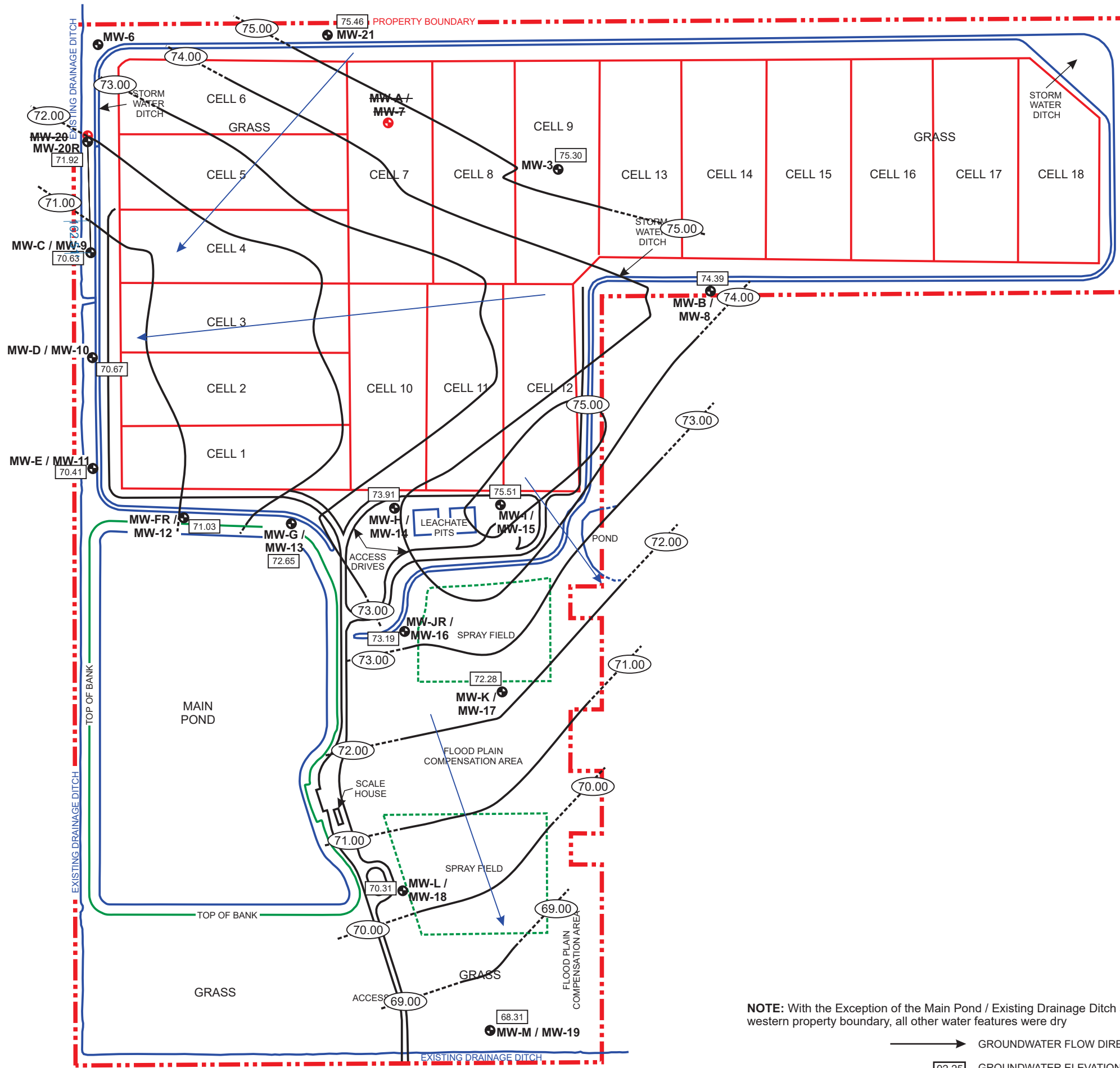
**FIGURE 1 - SITE PLAN / MONITOR WELL & SURFACE WATER SAMPLE LOCATION MAP**

EAC Project No.: 18-0334  
/ WACS Facility ID #95046



DRD Landfill  
13620 NW Highway 70  
Arcadia, Desoto County, Florida





NOTE: With the Exception of the Main Pond / Existing Drainage Ditch along the western property boundary, all other water features were dry

→ GROUNDWATER FLOW DIRECTION  
 92.25 GROUNDWATER ELEVATION

LEGEND

MW-1 Monitor Well Location

MW-4 Monitor Well Location Abandoned / Destroyed

SW-4 Surface Water Sample Location

LP-1 Leachate Pit Water Sample Location (Historical)

Environmental Assessments & Consulting

FIGURE 2 - GROUNDWATER ELEVATION CONTOUR MAP (5/29/2024)

EAC Project No.: 18-0334  
 / WACS Facility ID #95046

Scale:  
 1" = 550'  
 275.0 0 275.0  
 FEET



DRD Landfill  
 13620 NW Highway 70  
 Arcadia, Desoto County, Florida



Site 18 – Desoto C&D Disposal Facility

FDEP Facility ID: 92117

14662 NW Hwy 70

Arcadia, FL 34266



**DESOTO LANDFILL, LLC  
DESOTO C&D DISPOSAL FACILITY  
FIRST SEMIANNUAL COMPLIANCE MONITORING REPORT 2024  
DEP PERMIT NO. 231674-005-SO/22 and 231674-008-SO/MM,  
WACS No. 92117**

**Prepared by:**

**LOCKLEAR AND ASSOCIATES, INC.  
210 Southwest 4<sup>th</sup> Avenue  
Gainesville, Florida 32601**

---

Walker Wrenn  
P.G. No. 2792





# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(31), F.A.C

Form Title: Water Quality Monitoring Certification

Effective Date: January 6, 2010

Incorporated in Rule 62-701.510(9), F.A.C.

## WATER QUALITY MONITORING CERTIFICATION

### PART I GENERAL INFORMATION

(1) Facility Name DeSoto C&D Disposal Facility

Address 14662 SR 70 NE

City Arcadia, Florida

Zip 34266

County DeSoto

Telephone Number ( )

(2) WACS Facility ID 92117

(3) DEP Permit Number 231674-005-SO/22 and 231674-008-SO/MM

(4) Authorized Representative's Name Walker Wrenn, P.G.

Title Environmental Director

Address 210 Southwest 4th Avenue

City Gainesville, Florida

Zip 32601

County Alachua

Telephone Number (352 ) 672-6867

Email address (if available) walker@locklearconsulting.com

### CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

(Date)

(Owner or Authorized Representative's Signature)

### PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Locklear & Associates, Inc.

Analytical Lab NELAC / HRS Certification # E83018

Lab Name Eurofins Orlando

Address 481 Newburyport Avenue, Altamonte Springs, FL 32701

Phone Number (407 ) 826-5314

Email address (if available) \_\_\_\_\_



March 26, 2024

Ms. Katie O’Gara  
Florida Department of Environmental Protection – South District  
2295 Victoria Avenue, Suite 364  
Fort Myers, FL 33901

RE: **Compliance Monitoring Report – First Semiannual 2024  
DeSoto C&D Disposal Facility  
14662 State Road 70 Northeast, Arcadia, DeSoto County, Florida  
Permit No. 231674-005-SO/22 and 231674-008-SO/MM  
WACS No. 92117**

Dear Ms. O’Gara:

This report presents data from the First Semiannual – 2024 sampling event at the DeSoto C&D Disposal Facility performed on February 6 and 7, 2024.

All groundwater wells which require semiannual sampling were sampled and analyzed for the parameters listed in Appendix 3, Part II.3 of the facility permit. Surface water stations SW-2 and SW-3 were analyzed for the parameters listed in Appendix 3, Part III.2 of the facility permit. Quality Assurance/Quality Control samples were also collected. All sampling was performed by Locklear & Associates, Inc. in accordance with FDEP’s Standard Operating Procedures for Field Activities (DEP-SOP-001/01). Samples were submitted to Eurofins Orlando, Florida.

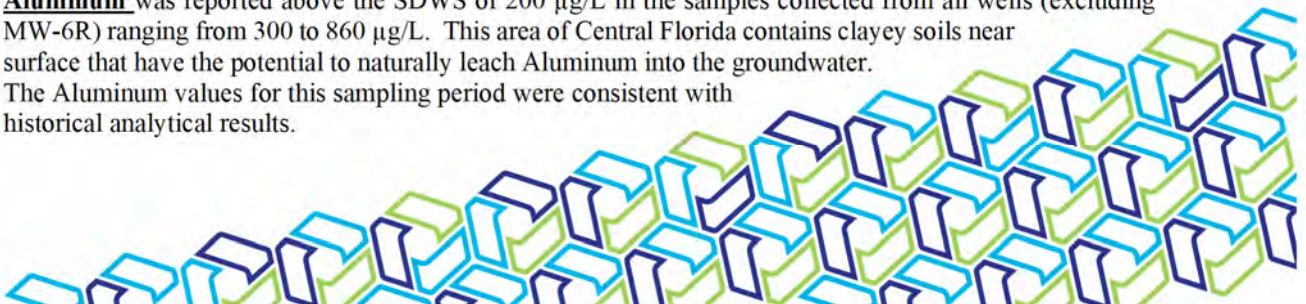
The monitoring well network is comprised of nine monitoring wells: background well MW-1, detection wells MW-3, MW-4, MW-5, MW-6R, MW-7 and MW-8, and compliance wells CW-1 and CW-2. Additionally, the monitoring well network includes five piezometer wells: MW-2, PZ-2, P-2, P-3, and WL-6. The surficial groundwater flow direction was established by subtracting the continuous round depth-to-water values from the surveyed top-of-casing values. As shown in Attachment 1, the surficial groundwater flow beneath the site during the sampling event trended south beneath the site. This groundwater flow is consistent with historic groundwater flow results.

All monitoring wells were sampled for the following field parameters: pH, Turbidity, Temperature, Specific Conductivity, Dissolved Oxygen, Depth to Water and Colors and Sheens. Field forms from the sampling event are provided in Attachment 6.

The following is a synopsis of Attachment 2, Detected Parameter Exceedances Compared to Groundwater Standards:

Secondary Drinking Water Standard (SDWS) and Groundwater Cleanup Target Level (GCTL) Exceedances:

- The field **pH** values for all wells were reported below or slightly above the lower limit of the SDWS of 6.5 – 8.5 S.U., ranging from 5.27 to 6.78 S.U. pH values below the SDWS are common in the surficial aquifer in this area of Central Florida, and these values are consistent with historic analytical results.
- **Sulfate** was reported above the SDWS of 250 mg/L in the samples collected from detection wells MW-6R, MW-7 and MW-8 ranging from 290 to 700 mg/L. The remaining Sulfate results were below the SDWS.
- **Total Dissolved Solids (TDS)** was reported at or above the SDWS of 500 mg/L in the samples collected from monitoring wells MW-3, MW-4, MW-6R, MW-7, MW-8, and compliance well CW-2 ranging from 580 to 1300 mg/L.
- **Aluminum** was reported above the SDWS of 200 µg/L in the samples collected from all wells (excluding MW-6R) ranging from 300 to 860 µg/L. This area of Central Florida contains clayey soils near surface that have the potential to naturally leach Aluminum into the groundwater. The Aluminum values for this sampling period were consistent with historical analytical results.





- **Iron** was reported above the SDWS of 300 µg/L in the samples collected from all monitoring wells, ranging from 330 to 30000 µg/L. Iron concentrations have been elevated in the past in samples collected from these wells and are considered to be naturally occurring.

#### Primary Drinking Water Standard (PDWS) Exceedances:

- **Arsenic** was reported above the PDWS of 10 µg/L in the samples collected from detection wells MW-3, MW-4 and MW-6R and compliance well CW-1 ranging from 16 to 58 µg/L. The Arsenic values for this sampling event were comparable to historical analytical results.
- **Benzene** was reported above the PDWS of 1 µg/L in the sample collected from detection well MW-3 at 1.2 µg/L.

All remaining parameters were reported below their respective groundwater standards as shown in Attachment 3.

#### Conclusion

Sampling will continue to be performed semiannually as required by the permit. PDWS Exceedances: Arsenic exceedances observed in detection wells MW-3 and MW-4 show reduced concentrations in downgradient compliance wells CW-1 and CW-2. Benzene observed in MW-3 showed reduced concentration in downgradient compliance well CW-2. SDWS Exceedances: Aluminum and Iron were reported at elevated numbers in the background well, which indicates that these constituents are naturally occurring and not a result from landfill activities. Sulfate and TDS will continue to be closely monitored to identify elevating trends.

Laboratory analysis for the quality assurance and quality control (QAQC) blanks (Equipment and Trip) is presented in Attachment 4. All parameters analyzed in the QAQC samples were below the Method Detection Level (MDL). Automated Data Processing Tool (ADaPT) and Electronic Data Deliverable (EDDs) delivered electronically in accordance with the facility permit. Semiannual compliance monitoring should be continued in accordance with the facility permit.

If you have any questions regarding this report, please contact me or John Locklear at (352) 672-6867.

Sincerely,

C. Walker Wrenn, P.G.  
Environmental Services Division Director

P:\P Drive Files\Civil Design\CD DeSoto\Compliance Monitoring\2024\24S1\Figures\24S1 Text.docx

xc: Tony Bishop, Eco South Services, Vice President of Post Collection  
Michael Guy, Eco South Services, EP Manager  
Jason Harris, Eco South Services, Landfill Manager  
Joe O'Neill, Civil Design Services, Vice President

Attachment 1: Groundwater Elevation Data, and Groundwater Contour Map  
Attachment 2: Detected Parameter Exceedances Compared to Groundwater Standards  
Attachment 3: Groundwater Parameters At or Above the Laboratory Detection Limit  
Attachment 4: Quality Assurance/Quality Control Summary  
Attachment 5: Surface Water Comparison – Class III (Fresh) Standards  
Attachment 6: Field Forms  
Attachment 7: Laboratory Reports



## **Attachment 1**

### **Groundwater Elevation Data, and Groundwater Contour Map**

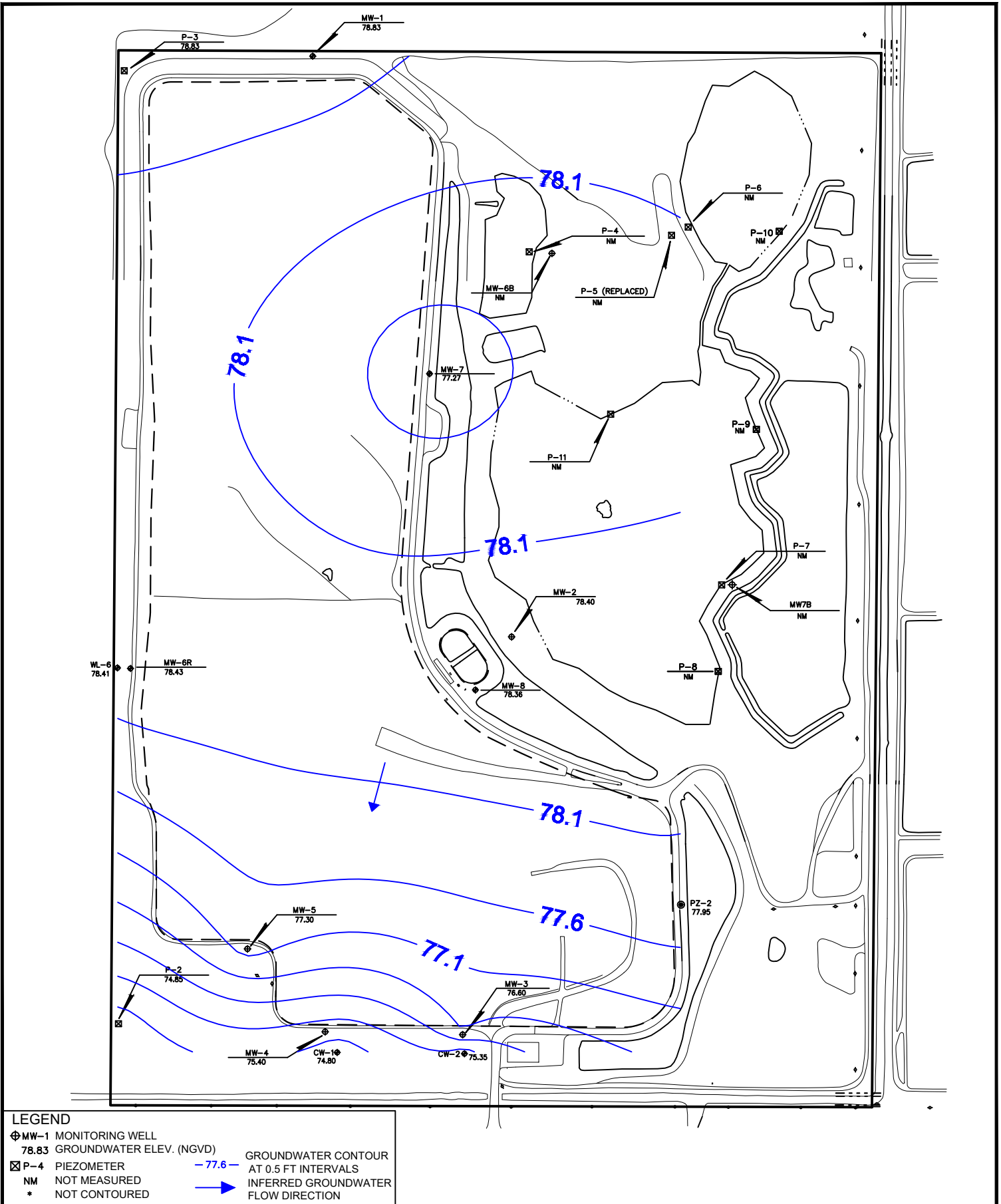


## GROUNDWATER ELEVATION DATA

### DeSoto C&D Disposal Facility 2024 - First Semiannual Compliance Monitoring Event

WELL NAME	TOP OF CASING	CONTOUR MAP	
		DEPTH TO WATER	GROUDWATER ELEVATION
	(NGVD,FT)	(FT)	(NGVD,FT)
MW-1	88.81	9.98	78.83
MW-2	82.50	4.10	78.40
MW-3	83.85	7.25	76.60
MW-4	83.05	7.65	75.40
MW-5	83.28	5.98	77.30
MW-6R	87.21	8.78	78.43
MW-7	87.79	10.52	77.27
MW-8	87.53	9.17	78.36
CW-1	83.62	8.82	74.80
CW-2	83.65	8.30	75.35
PZ-2	85.79	7.84	77.95
P-2	82.47	7.62	74.85
P-3	85.32	6.49	78.83
WL-6	86.99	8.58	78.41





**Locklear  
& Associates**

**GROUDWATER CONTOUR MAP  
FEBRUARY 6, 2024  
DESOTO C&D DISPOSAL FACILITY  
ARCADIA, DESOTO COUNTY, FLORIDA**

**FIGURE 1**



SCALE: 1" = 450'



## **Attachment 2**

### **Detected Parameter Exceedances Compared to Groundwater Standards**



**DeSoto C&D Disposal Facility****Detected Parameter Exceedances Compared to Groundwater Standards****Compliance Monitoring Report – First Semiannual 2024**

PARAMETER	COLLECTION	pH (FIELD)	SULFATE	TOTAL DISSOLVED SOLIDS	ALUMINUM	ARSENIC	IRON	BENZENE
STANDARD	DATE	6.5-8.5 s.u.**	250 mg/L**	500 mg/L**	200 µg/L**	10 µg/L*	300 µg/L**	1 µg/L*
UNITS	M/D/Y	S.U.	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L
Background								
MW-1	2/6/2024	5.27	-	-	600	-	2600	-
Detection								
MW-3	2/6/2024	-	-	860	450	26	2400	1.2
MW-4	2/6/2024	6.38	-	900	700	58	1600	-
MW-5	2/6/2024	-	-	-	570	-	1200	-
MW-6R	2/6/2024	6.40	700	1300	-	16	2200	-
MW-7	2/6/2024	5.57	670	1100	450	-	30000	-
MW-8	2/6/2024	6.07	290	580	860	-	1900	-
Compliance								
CW-1	2/6/2024	-	-	-	300	24	1600	-
CW-2	2/6/2024	-	-	700	300	-	330	-
Surface Water								
SW-2	2/7/2024	6.21	-	-	-	-	580	-
SW-3	2/7/2024	6.41	-	-	-	-	3600	-
QAQC								
EQBGW	2/6/2024	NM	-	-	-	-	-	-
EQBSW	2/7/2024	NM	-	-	-	-	-	-
TRIPGW1	2/6/2024	NM	NM	NM	NM	NM	NM	-
TRIPGW2	2/7/2024	NM	NM	NM	NM	NM	NM	-
TRIPSW	2/7/2024	NM	NM	NM	NM	NM	NM	-

**LEGEND**

\* = primary drinking water standard

\*\* = secondary drinking water standard

\*\*\* = Chapter 62-777-Groundwater Cleanup Target Level (GCTL)

- = Analysis Result is not at or outside Groundwater Standard

V = Indicates that the analyte was detected in both the sample and the associated method blank.

NS = Not Sampled

NM = Not Measured

Note: Analysis results which were reported above the laboratory detection limit,  
but not at or above the Groundwater Standard are not displayed in this table.



## **Attachment 3**

### **Groundwater Parameters At or Above the Laboratory Detection Limit**



**DeSoto C&D Disposal Facility****Groundwater Parameters At or Above Laboratory Detection Limit****Compliance Monitoring Report – First Semiannual 2024**

PARAMETER		SPECIFIC CONDUCTANCE	DISSOLVED OXYGEN	pH	TEMPERATURE	TURBIDITY	AMMONIA as NITROGEN	CHLORIDE	NITRATE (as N)
STANDARD	COLLECTION	1	1	6.5-8.5 s.u.**	1	1	1	250 mg/L**	10 mg/L*
UNITS	DATE	umhos/cm	mg/L	S.U.	deg C	NTU	mg/L	mg/L	mg/L
Background									
MW-1	2/6/2024	327	0.50	5.27	8.77	2.18	1.0	23	<0.20
Detection									
MW-3	2/6/2024	1045	0.40	6.78	10.12	17.3	18	69	<0.20
MW-4	2/6/2024	741	0.20	6.38	10.54	4.08	15	110	<0.20
MW-5	2/6/2024	470	4.04	6.75	9.16	9.18	0.070	6.8	1.5
MW-6R	2/6/2024	985	0.45	6.40	8.19	2.26	2.3	12	1.6
MW-7	2/6/2024	911	0.34	5.57	9.30	6.21	0.53	13	<0.20
MW-8	2/6/2024	586	0.89	6.07	9.00	17.0	0.078	8.4	1.1
Compliance									
CW-1	2/6/2024	701	0.31	6.73	8.51	5.26	17	52	<0.20
CW-2	2/6/2024	502	0.26	6.76	9.28	3.00	3.8	5.2	<0.20
Surface Water									
SW-2	2/7/2024	390	10.62	6.21	6.02	3.48	0.043	68	3.0
SW-3	2/7/2024	368	10.26	6.41	6.32	15.7	1.0	31	0.83

**LEGEND**

\* = primary drinking water standard

\*\* = secondary drinking water standard

\*\*\* = Chapter 62-777-Groundwater Cleanup Target Level (GCTL)

1 = No Standard

- = Not analyzed

&lt; = Below stated Laboratory Detection Limit

I = Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL)

J = Estimated value

V = Analyte found in associated method blank

Q = Estimated value; analyte analyzed after acceptable holding time

U = Indicates that the compound was analyzed for but not detected



**DeSoto C&D Disposal Facility****Groundwater Parameters At or Above Laboratory Detection Limit****Compliance Monitoring Report – First Semiannual 2024**

PARAMETER	SULFATE	TOTAL DISSOLVED SOLIDS	ALUMINUM	ARSENIC	CADMIUM	CHROMIUM	IRON	LEAD
STANDARD UNITS	250 mg/L**	500 mg/L**	200 µg/L**	10 µg/L*	5 µg/L*	100 µg/L*	300 µg/L**	15 µg/L*
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Background								
MW-1	97	210	600	1.1 I	0.38 I	3.7	2600	0.58 I
Detection								
MW-3	96	860	450	26	<0.27	14	2400	0.30 I
MW-4	76	900	700	58	<0.27	17	1600	0.29 I
MW-5	98	400	570	3.3 I	<0.27	1.1 I	1200	0.43 I
MW-6R	700	1300	98	16	<0.27	1.1 I	2200	0.35 I
MW-7	670	1100	450	1.5 I	<0.27	5.0	30000	<0.27
MW-8	290	580	860	0.68 I	<0.27	1.5 I	1900	0.28 I
Compliance								
CW-1	96	480	300	24	<0.27	8.6	1600	<0.27
CW-2	63	700	300	3.7 I	<0.27	3.9	330	<0.27
Surface Water								
SW-2	180	400	63	<0.43	<0.27	0.76 I	580	<0.27
SW-3	99	310	110	3.4 I	<0.27	3.7	3600	<0.27

**LEGEND**

\* = primary drinking water standard

\*\* = secondary drinking water standard

\*\*\* = Chapter 62-777-Groundwater Cleanup Target Level (GCTL)

1 = No Standard

- = Not analyzed

&lt; = Below stated Laboratory Detection Limit

I = Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL)

J = Estimated value

V = Analyte found in associated method blank

Q = Estimated value; analyte analyzed after acceptable holding time

U = Indicates that the compound was analyzed for but not detected



**DeSoto C&D Disposal Facility****Groundwater Parameters At or Above Laboratory Detection Limit****Compliance Monitoring Report – First Semiannual 2024**

PARAMETER	SODIUM	ETHYLBENZENE	o-XYLENE	m,p-XYLENE	XYLENES (TOTAL)	TOLUENE	BENZENE
STANDARD	160 mg/L*	30 µg/L**	20 µg/L**	20 µg/L**	20 µg/L**	40 µg/L**	1 µg/L*
UNITS	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Background							
MW-1	16	<0.69	<0.53	<1.3	<1.3	<0.72	<0.71
Detection							
MW-3	67	<0.69	<0.53	<1.3	<1.3	0.99 I	1.2
MW-4	71	0.99 I	1.1	2.1	3.2	7.9	0.90 I
MW-5	5.4	<0.69	<0.53	<1.3	<1.3	<0.72	<0.71
MW-6R	14	<0.69	<0.53	<1.3	<1.3	<0.72	<0.71
MW-7	27	<0.69	<0.53	<1.3	<1.3	<0.72	<0.71
MW-8	8.0	<0.69	<0.53	<1.3	<1.3	<0.72	<0.71
Compliance							
CW-1	35	<0.69	<0.53	<1.3	<1.3	<0.72	<0.71
CW-2	6.6	<0.69	<0.53	<1.3	<1.3	<0.72	<0.71
Surface Water							
SW-2	25	<0.69	<0.53	<1.3	<1.3	<0.72	<0.71
SW-3	22	<0.69	<0.53	<1.3	<1.3	<0.72	<0.71

**LEGEND**

\* = primary drinking water standard

\*\* = secondary drinking water standard

\*\*\* = Chapter 62-777-Groundwater Cleanup Target Level (GCTL)

1 = No Standard

- = Not analyzed

&lt; = Below stated Laboratory Detection Limit

I = Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL)

J = Estimated value

V = Analyte found in associated method blank

Q = Estimated value; analyte analyzed after acceptable holding time

U = Indicates that the compound was analyzed for but not detected



## **Attachment 4**

### **Quality Assurance and Control Summary**



Field Quality Control Sample Review

Site:	DeSoto C&D Disposal Facility
Sampling Period:	First Semiannual 2024

Trip Blanks:

Chain-of-Custody Identifier	Final Report Identifier	Date	Analysis	Parameters Detected / Comment
TRIPGW	TRIPGW	2/6/2024	VOCs	None
TRIPSW1	TRIPSW1	2/7/2024	VOCs	None
TRIPSW2	TRIPSW2	2/7/2024	VOCs	None

Equipment Blanks:

Chain-of-Custody Identifier	Final Report Identifier	Date	Analysis	Equipment	Parameters Detected / Comment
24S1D-EQBGW	EQBGW	2/6/2024	Groundwater Parameters	Submersible Pump and Tubing	Ammonia as N, Total Dissolved Solids
24S1D-EQBSW	EQBSW	2/7/2024	Surface Water Parameters	Bottle and Pole	Chloride, Total Dissolved Solids

Field Sampling Procedures:

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Laboratory Procedures:

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## **Attachment 5**

### **Surface Water Comparison – Class III (Fresh) Standards**



# SURFACE WATER PARAMETER COMPARISON - CLASS III (FRESH) STANDARDS

## DeSoto C&D Disposal Facility

### FIRST SEMIANNUAL - 2024

#### SW-2

	AUGUST 2022	MARCH 2023	JULY 2023	FEBRUARY 2023	COMMENTS
pH (field) (Standard Units) ≤NB ± 1 Unit 6.0 Min. 8.5 Max.	6.8	6.34	NS	6.21	
SPECIFIC CONDUCTANCE (field) (umhos/cm) ≤50% Increase 1275 umhos/cm Max.	533	863	NS	390	
TEMPERATURE ( degrees Centigrade)	24.97	15.98	NS	6.02	
DISSOLVED OXYGEN (mg/L) ≥ 5 mg/L	5.01	5.12	NS	10.62	
TURBIDITY (NTUs) ≤29 NTUs above Natural Background	11.5	12.8	NS	3.48	
FECAL COLIFORM (col/100 ml) See Rule	28	60.9	NS	29.5	
UN-IONIZED AMMONIA ≤0.02 mg/L	<0.0073	<0.00010	NS	<0.00010	
BIOCHEMICAL OXYGEN DEMAND (mg/L) See Rule	2.0	1.2 I	NS	<2.0	
ARSENIC (µg/L) ≤ 50 µg/L	0.774 I	<2.2	NS	<0.43	
CADMIUM (µg/L) ≤ e(0.7852[lnH] - 3.49)	<0.200	<1.1	NS	<0.27	
CHROMIUM (µg/L) ≤ e(0.819[lnH] + 1.561)	1.27	<1.1	NS	0.76 I	
CHEMICAL OXYGEN DEMAND (mg/L)	62	59	NS	62	
TOTAL HARDNESS (CaCO3) (mg/L)	153	290	NS	250	
TOTAL NITROGEN (mg/L) Cause no Imbalance	2.6	1.1	NS	3.5	
TOTAL PHOSPHORUS (mg/L) Cause no Imbalance	0.31	0.12	NS	0.036	
IRON (µg/L) ≤ 1000 µg/L	1320	1900	NS	580	
LEAD (µg/L) < e(1.273[lnH] - 4.705)	<0.250	<1.1	NS	<0.27	
MERCURY (µg/L) ≤ 0.012 µg/L	0.00345	0.0018	NS	0.0016 I	



# **SURFACE WATER PARAMETER COMPARISON - CLASS III (FRESH) STANDARDS**

## **DeSoto C&D Disposal Facility**

### **FIRST SEMIANNUAL - 2024**

#### **SW-3**

	AUGUST 2022	MARCH 2023	JULY 2023	FEBRUARY 2023	COMMENTS
pH (field) (Standard Units) ≤NB ± 1 Unit 6.0 Min. 8.5 Max.	6.75	NS	NS	6.41	
SPECIFIC CONDUCTANCE (field) (umhos/cm) ≤50% Increase 1275 umhos/cm Max.	516	NS	NS	368	
TEMPERATURE ( degrees Centigrade)	26.15	NS	NS	6.32	
DISSOLVED OXYGEN (mg/L) ≥ 5 mg/L	5.33	NS	NS	10.26	
TURBIDITY (NTUs) ≤29 NTUs above Natural Background	10.6	NS	NS	15.7	
FECAL COLIFORM (col/100 ml) See Rule	18	NS	NS	488.4	
UN-IONIZED AMMONIA ≤0.02 mg/L	<0.0073	NS	NS	0.00043	
BIOCHEMICAL OXYGEN DEMAND (mg/L) See Rule	1.5 I	NS	NS	2.2	
ARSENIC (µg/L) ≤ 50 µg/L	0.842 I	NS	NS	3.4 I	
CADMIUM (µg/L) ≤ e(0.7852[lnH] - 3.49)	<0.200	NS	NS	<0.27	
CHROMIUM (µg/L) ≤ e(0.819[lnH] + 1.561)	1.24	NS	NS	3.7	
CHEMICAL OXYGEN DEMAND (mg/L)	57	NS	NS	160	
TOTAL HARDNESS (CaCO3) (mg/L)	139	NS	NS	220	
TOTAL NITROGEN (mg/L) Cause no Imbalance	2.0	NS	NS	3.0	
TOTAL PHOSPHORUS (mg/L) Cause no Imbalance	0.28	NS	NS	0.28	
IRON (µg/L) ≤ 1000 µg/L	1020	NS	NS	3600	
LEAD (µg/L) < e(1.273[lnH] - 4.705)	<0.250	NS	NS	<0.27	
MERCURY (µg/L) ≤ 0.012 µg/L	0.00296	NS	NS	0.0019 I	

STANDARDS FROM FAC 62-302

HISTORICAL DATA PRESENTED FOR TREND COMPARISON

+ = Outside of Class III Surface Water Quality Standards

NM = Not Measured

NS = Not Sampled