

**LEVEL I
CONTAMINATION SCREENING EVALUATION REPORT
(MAINLINE AND DRAINAGE SITES)**

Florida Department of Transportation

Florida's Turnpike Enterprise

Poinciana Parkway Extension Connector (SR 538)

Project Development and Environment (PD&E) Study

From CR 532 to North of I-4/SR 429 Interchange

Osceola and Polk Counties, Florida

Financial Management Number: 446581-1

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drainage sites once they have been determined. A site specific Level II scope of services should be developed for each of these sites to be reviewed and approved by the DCIC.

- Once final design plans are available, additional review is recommended in consideration of dewatering operations that may be necessary under the *National Pollutant Discharge Elimination System Generic Permit for Stormwater Discharges from Large and Small Construction Activities*. Verification testing may be warranted for contamination issues within 500 feet of the dewatering area.
- Although buried petroleum and natural gas pipelines were not rated High or Medium, the contractor should be made aware of any buried pipelines within both the PPEC mainline right-of-way (ROW), and drainage sites (Basin 109, Alt 1, Basin 200, Alt 1 and Alt 3, Basin 201, Alt 2 and Alt 3, Basin 203, Alt 2, Basin 204, Alt 2, Basin 205, Alt 1, Basin 206 Alt 1 and Alt 3, and Basin Interchange Alt 1 and Alt 2) prior to construction activities. Pipelines should be marked and noted on the design plans.
- During construction, if abnormal conditions are encountered or exposed indicating the presence of contaminated materials, cease operations immediately in the vicinity and notify the Florida's Turnpike Enterprise (FTE) DCIC. The presence of tanks or barrels; discolored earth, metal, wood, ground water, etc.; visible fumes; abnormal odors; excessively hot earth; smoke; or other conditions that appear abnormal may indicate the presence of contaminated materials and must be treated with extreme caution. These unidentified contamination areas should be managed in accordance with Florida Department of Transportation (FDOT) Specification **120-1.2 Unidentified Areas of Contamination**.
- Additional Considerations: In accordance with PD&E Manual, Part 2, Chapter 20, Section 20.2.2.2, projects which involve existing bridges, building structures, and possibly existing or abandoned utilities which will be moved or demolished may need surveys or screenings for Asbestos Containing Materials (ACMs), Lead-Based Paint (LBP), and/or other Metal-Based Coatings (MBCs). Although requested from the FTE DCIC, no asbestos or metals based coating reports were found for the twelve bridge/culvert structures which may require demolition or modification for this project. Therefore, FTE should consider performing the asbestos and metals based coatings surveys for these structures, and the structures located within proposed ROW at Sites 4, 5, 7, 8, and 22.

2.0 Introduction

This Level I Contamination Screening Evaluation Report (CSER) was prepared to support the Poinciana Parkway Extension Connector (PPEC) Project Development and Environment (PD&E) Study from CR 532 to North of I-4/SR 429 Interchange (milepost markers were not available) in Osceola and Polk Counties, Florida. The purpose of this CSER is to present the findings of this Level I contamination screening evaluation. This report also presents recommendations for additional analysis for High and Medium rated sites. The study was performed in accordance with Part 2, Chapter 20 of the Florida Department of Transportation's Project Development and Environment Manual (July 1, 2020).

This evaluation includes the mainline and twenty-eight drainage site alternatives. New right-of-way included in this report is anticipated for both the mainline (proposed new roadway south of Interstate 4), and the twenty-eight drainage sites (outside the mainline ROW).

Project Description

The project involves extending Poinciana Parkway (SR 538) from County Road 532 (CR 532) to the Interstate 4 (I-4)/State Road 429 (SR 429) interchange, modifying the I-4/SR 429 interchange to accommodate the Poinciana Parkway (SR 538) connection, and increasing capacity of the segment of SR 429 from the I-4/SR 429 interchange to the SR 429/Sinclair Road interchange. The total project length is 4.97 miles.

Poinciana Parkway is a section of a future six lane limited access toll facility, often referred to as the "Southern Beltway." The Southern Beltway would provide a regional, limited access facility that connects I-4 on the west to the interchange of Boggy Creek Road/SR 417 on the east, a distance of approximately 50 miles. The westernmost portion of the Southern Beltway is referred to as the Poinciana Parkway.

The existing interchange at I-4 and SR 429 is a full access interchange with no connection to the south. Currently, I-4 provides six lanes (three lanes in each direction) and SR 429 provides four lanes (two lanes in each direction).

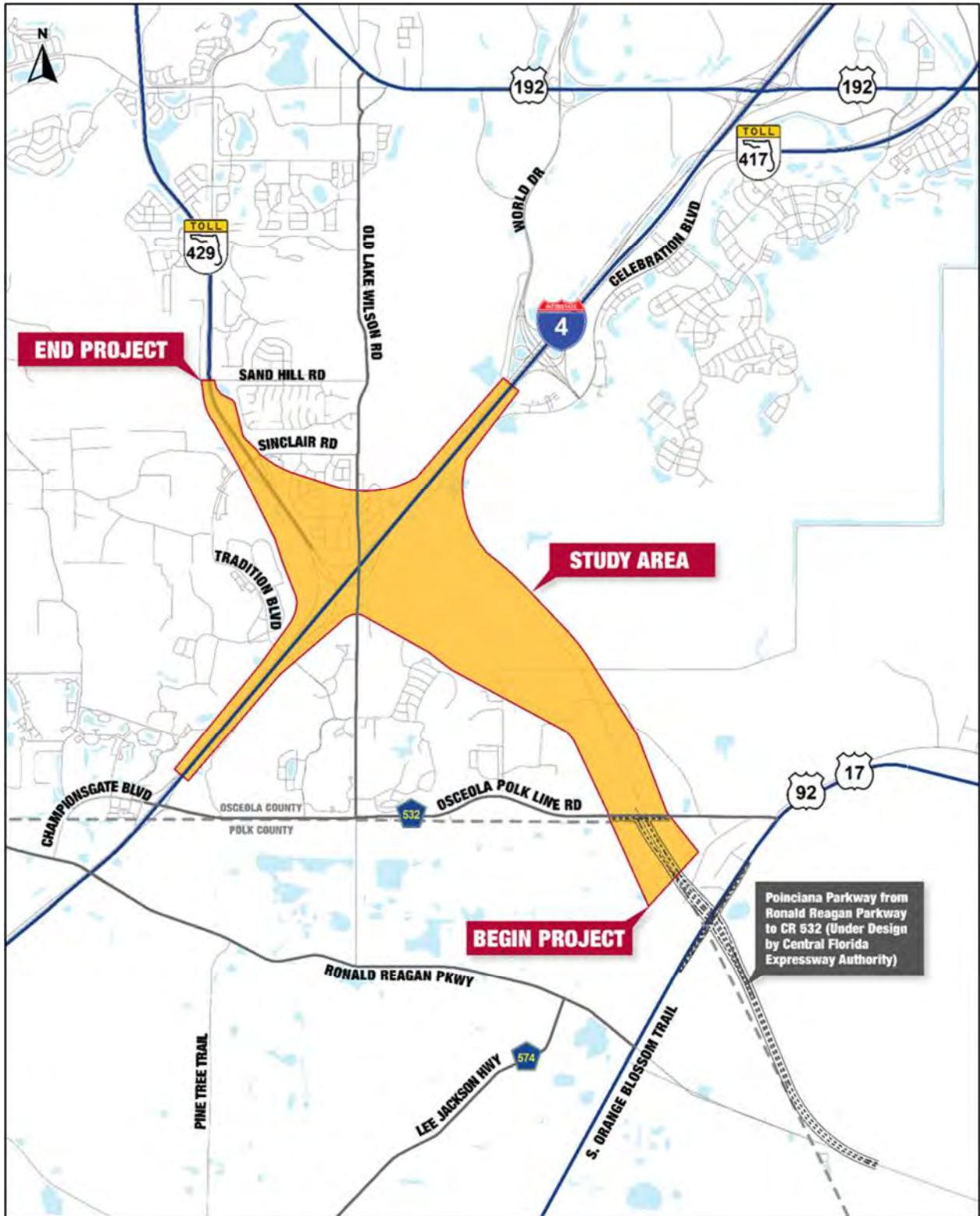
The study area (see **Figure 1**), which includes portions of unincorporated Osceola and Polk Counties, is comprised of residential land uses, the 2,226-acre Reunion Resort, and conservation lands under the jurisdiction of the Reedy Creek Improvement District (RCID). Although there are no municipalities in the study area, the project includes the unincorporated areas of Loughman and Poinciana. There are also numerous undeveloped parcels with residential and planned development future land use designations, wetland systems, and overhead and underground utility corridors. CR 532 follows the county line between Polk County on the south and Osceola County on the north.

An adjacent project, the Widen Western Beltway (SR 429) PD&E Study (Financial Project Identification Number [FPID] 446164-1) from north of I-4 to Seidel Road will also evaluate

improvements along SR 429 from the I-4 interchange to north of Sinclair Road, including widening the existing four-lane SR 429 expressway to eight lanes.

- If the Widen Western Beltway project moves forward, the Poinciana Parkway Extension Connector will match that eight-lane SR 429 configuration north of Sinclair Road.
- If the Widen Western Beltway project does not move forward, the Poinciana Parkway Extension Connector will match the existing four-lane SR 429 configuration north of Sinclair Road.
- However, in order to maintain independent utility, should the Poinciana Parkway Extension Connector not move forward, the Western Beltway (SR 429) widening would continue south of Sinclair Road to the I-4 interchange.

Figure 1: Project Location Map



4.0 Methodology

A contamination screening evaluation was conducted to identify contamination issues from properties or operations located within the vicinity of the project. Site specific details are provided, where appropriate, in **Section 8, Table 1** and **Table 2**. This evaluation consisted of the following tasks:

- Review and include relevant contamination sites identified in the PD&E CSER (Central Florida Expressway Authority (CFEA) No. 599-224) dated May 2019. (overlap includes the southern-most 1,400 feet of this project)
- Summarize the buried debris test pit findings of the Roadway Soil Survey Report dated July 28, 2021. See **Table 1**, Site 4. (overlap includes the southern-most 1,400 feet of this project)
- Review and include relevant contamination sites identified in the Contamination Technical Memorandum Poinciana Parkway (SR 538) Extension – Segment 2 (Central Florida Expressway Authority No. 538-235) dated October 26, 2021. The Tech Memo provided 1) an update to the PD&E CSER for mainline dated May 2019, and 2) a contamination evaluation for four preferred ponds. Although CFEA Sites 9 (Site 3 herein), 10/11 (Site 4 herein), and 12 (Site 6 herein) were found in common, none of the four drainage sites are considered relevant for this project. (overlap includes the southern-most 1,400 feet of this project)
- Review and include relevant contamination sites identified in the (FPID: 446164-1) Level I Contamination Screening Evaluation (Mainline and Drainage Sites) Widen Western Beltway (SR 429) from North of I-4/SR 429 Interchange to Seidel Road dated September 20, 2022. Four sites overlapping the northern portion of this project were found in common: Sites 1 (Site 1 herein), 2 (Site 24 herein), 3 (Site 18 herein) and 4 (Site 19 herein) were found in common.
- Aerial photographs were reviewed to develop a history of the previous land uses within the study area and to identify sites which may have historical uses that pose contamination concerns. Aerial photographs dated 1944, 1958, 1959, 1968, 1969, 1971, 1974, 1983, 1996, 2005, 2011, and 2021 were obtained from Environmental Data Management, Inc. (EDM) on June 9, 2022. Copies of these aerial photographs are presented in **Appendix B**. Additionally, aerial photographs dated 1995, 1999, 2004-2010, 2012-2019, and 2021 were reviewed using the Google Earth database. A copy of the 2021 FDOT aerial photograph is presented in **Appendix A**.
- Topographic maps were obtained from EDM. Copies of these maps are provided in **Appendix C**. Topographic maps can be useful identifying contamination concerns such as railroads, mine lands, bulk storage tanks, and landfills/disturbed lands. Additionally, land use and water features, including elevation contours can be identified on topographic maps.

The “Intercessions City, Fla.” USGS 7.5-Minute topographic maps dated 1953, and photorevisions dated 1970, 1980, 1983, and 1985 were reviewed for this study.

- The Polk and Osceola County Property Appraiser databases were reviewed for information related to suspect contamination sites where other resources may not have provided ample information regarding the site, or to determine addresses, parcel boundaries and other pertinent information.
- An environmental database search using EDM was conducted on May 31, 2022 for the mainline and June 6, 2022 for the drainage locations to identify sites, facilities or listings within the study area containing documented or suspected petroleum contamination or other hazardous materials. This report utilizes a 500-foot, 1,000 foot, and ½ mile search distances as specified in Part 2, Chapter 20 of the FDOT PD&E Manual. The EDM report is used as a preliminary screening tool to identify facilities that are registered with various county, state, and federal agencies. The regulatory review of federal and state environmental records utilizes an integrated geographic information system database. The database report provides geocoded and non-geocoded regulatory listings of interest that are identified within the study area. Each listing is located by address, facility identification number and field verified where possible. All are reviewed for the potential of contamination to impact the project. The reviewed records include information compiled by the United States Environmental Protection Agency (EPA), the Florida Department of Environmental Protection (FDEP), and other various reporting programs, as identified in EDM’s report. A complete list of all regulatory record databases searched is included in the environmental database search report, provided in **Appendix D**. Additionally regulatory files were searched using FDEP (OCULUS and Map Direct), and EPA databases. Supplemental information obtained from these databases is included in **Appendix F**.
- Performed a site reconnaissance on July 7, 8, 15, and 25, 2022 to identify new and undocumented contamination sites, and to verify locations of documented contamination sites. Select photographs are provided in **Appendix E**.
- Assigned risk ratings for each contamination site or pond after evaluating the findings of each of the previously mentioned methodologies. The rating system defined in the PD&E Manual is divided into four categories of risk which express the degree of concern for contamination problems. The four degrees of risk ratings are No, Low, Medium, and High and are defined as follows:

No Risk Site

A review of available information on the property and a review of the conceptual or design plans indicates there is no potential contamination impact to the project. It is possible that

contaminants have been handled on the property. However, findings from the Level I evaluation indicate that contamination impacts are not expected.

Low Risk Site

A review of available information indicates that past or current activities on the property have an ongoing contamination issue; the site has a hazardous waste generator identification (ID) number, or the site stores, handles, or manufactures hazardous materials. However, based on the review of conceptual or design plans and/or findings from the Level I evaluation, it is not likely that there would be any contamination impacts to the project.

Medium Risk Site

After a review of conceptual or design plans and findings from a Level I evaluation, a potential contamination impact to the project has been identified. If there is insufficient information (such as regulatory records or site historical documents) to make a determination as to the potential for contamination impact, and there is reasonable suspicion that contamination may exist, the property should be rated at least as a “Medium.” Properties used historically as gasoline stations and which have not been evaluated or assessed by regulatory agencies, sites with abandoned in place underground petroleum storage tanks or currently operating gasoline stations should receive this rating.

High Risk Site

After a review of all available information and conceptual or design plans, there is appropriate analytical data that shows contamination will substantially impact construction activities, have implications to ROW acquisition or have other potential transfer of contamination related liability to the FDOT.

5.0 Land Uses

Determination of previous land uses and occupancies is an important factor when evaluating the potential for contamination involvement. Developing a history of the project and surrounding areas can assist in determining the potential for releases or discharges of hazardous materials or petroleum products. To determine land uses for this project, a site reconnaissance and interviews were performed along with a review of historical aerial photographs and topographic maps (**Section 8.0**).

5.1 Site Reconnaissance

A site visit was conducted on July 7, 8, 15, and 25, 2022 to evaluate each property within and in close proximity to the mainline and drainage locations for contamination concerns. The site reconnaissance in conjunction with the desktop review allow the sites to be rated as to the degree of contamination concern as discussed in **Section 4.0**. The reconnaissance included a systematic inspection of each parcel along the corridor, and surrounding areas looking for signs of contamination. This was achieved by driving, where possible, the corridor, and walking the parcels within and surrounding the corridor (where accessible) to gain specific information regarding the usage and condition of each contamination site. Photographs of the contamination concerns were taken during the site inspection. Select images are presented in **Appendix E**.

Some of the typical physical indicators for contamination concerns include: railroad tracks, fill ports and vent pipes associated with aboveground storage tanks (ASTs), underground storage tanks (USTs), oil/petroleum staining, drums, chemical containers, refuse, illicit dumping, solid waste, stressed vegetation, dry cleaning facilities, material handling from adjacent businesses, petroleum dispensers, excavated areas, agricultural use, chemical mix/load areas, stormwater outfall areas, surface water indicators, groundwater monitor wells, restricted area/contamination/hazardous material/petroleum pipeline signage, cattle dip vats and other property uses that may present contamination concerns.

A detailed description of field observations for each contamination site is provided in **Section 8.0**.

5.2 Aerial Photograph Review

Generally, aerial photographs depict the study area as undeveloped land, and low, wet areas in 1944. Groves (Site 1) were depicted in the northern and central areas from 1953 to 2018, and planted pine trees (Site 24) were depicted in the north-central area since 1995. One structure, presumably residential, is depicted within the SR 429/I-4 interchange ROW, along the east side of Lake Wilson Road from 1944 to 1983. Multiple manmade ponds (borrow pits) were depicted along I-4 since 1968, and along SR 429 since 2004. A powerline easement was first depicted in the south-central area in 1999. SR 429, including the I-4 interchange is depicted under construction from 2004 to 2006, and complete in 2007. A detailed discussion of contamination concerns is provided in **Section 8.0**.

5.3 USGS Topographic Map Review

Generally, topographic maps depict undeveloped land, woods, and low, wet areas between 1953 and 1985. Multiple hill tops and low, wet areas are depicted within the project limits and adjacent areas.

One structure and Lake Wilson Road are depicted within the I-4/SR 429 interchange ROW between 1953 and 1985. Approximately three structures were depicted within the PPEC ROW in the south and south-central portion of the project. Three manmade ponds (borrow pits) were depicted along the south side of I-4 from 1970 to 1985. Two creeks, Reedy Creek and Davenport Creek intersect I-4. Groves (Site 1) are depicted within the ROW in the northern and central areas. A detailed discussion of contamination concerns is provided in **Section 8.0**.

6.0 Hydrologic Features

6.1 Aquifers of Florida

The Floridan aquifer is found throughout Florida and extends into the southern portions of Alabama, Georgia, and South Carolina. This aquifer system is comprised of a sequence of limestone and dolomite, which thickens from about 250 feet in Georgia to about 3000 feet in south Florida. The Floridan aquifer system has been divided into an upper and lower aquifer separated by a unit of lower permeability. The upper Floridan aquifer is the principal source of water supply in most of north and central Florida. Groundwater flow is generally from high elevations within the central portion of the state towards the east and west coasts.

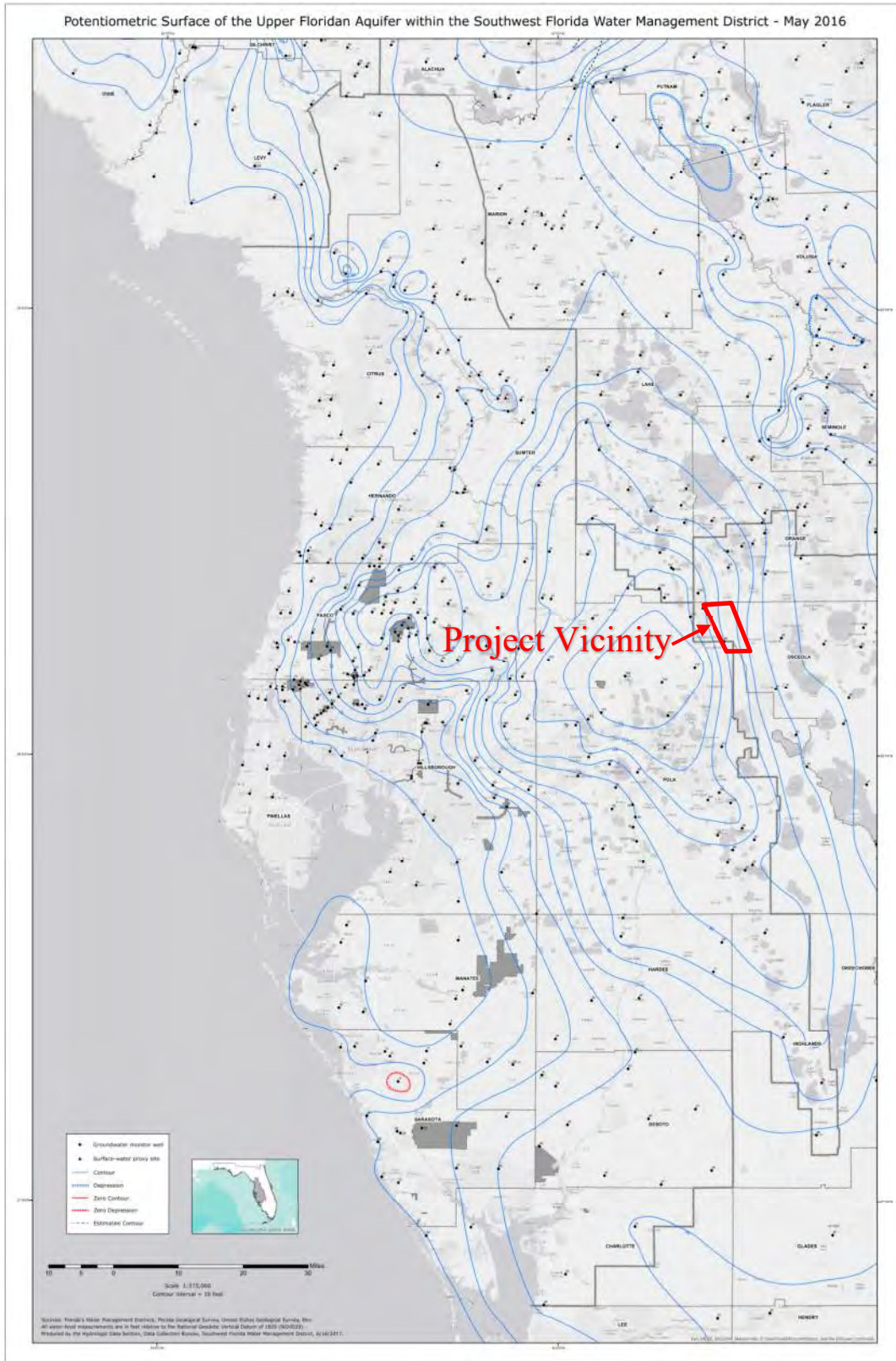
The surficial aquifer system in Florida includes any otherwise undefined aquifers that are present at land surface. The surficial aquifer is mainly used for domestic, commercial, or small municipal supplies. The surficial aquifer system is generally under unconfined, or water table conditions and is made up of mostly unconsolidated sand, shelly sand, and shell. The aquifer thickness is typically less than 50 feet. Groundwater in the surficial aquifer generally flows from areas of higher elevation towards the coast or streams where it can discharge as base flow. Water enters the aquifer from rainfall and exits as base flow to streams, discharge to the coast, evapotranspiration, and downward recharge to deeper aquifers.

Based on topography and regulatory file information for potential contamination sites, the estimated depth of the surficial aquifer ranges from land surface to 46.9 feet below land surface (bls) in the project area.

6.2 Potentiometric Surface Map – Upper Floridan Aquifer

Based on Tierra's drilling completed, artesian conditions were not encountered within the project limits. According to the Geohydrology of Osceola County, Florida, U.S. Geological Survey Water-Resources Investigations Report 92-4076 (by George R. Schiner), dated 1993, page 7 states "The groundwater system in Osceola County consists of two major water-bearing units; a thin surficial aquifer and a thick high-permeability rock aquifer separated by a thin confining unit. The surficial unit contains the water table and the high-permeability unit is mostly under artesian conditions." Therefore, artesian conditions may be anticipated. Tierra's review of the Potentiometric Surface Map dated September 2016 for the Upper Floridan Aquifer depicts groundwater flow direction generally toward the east. See **Figure 2**, next page.

Figure 2: Upper Floridan Aquifer Potentiometric Surface Map



6.3 Hydrology – Site Reconnaissance

During the site reconnaissance, surface waters observed within the study area included multiple manmade stormwater ponds, roadside ditches and swales, and low, wet areas. Land generally sloped towards manmade drainage features, and natural low, wet areas within and near the project limits, including Reedy Creek and Davenport Creek. Two potable water wells were identified within the PPEC ROW at Station 6200+2 LT, and Station 6205+1 LT. No groundwater monitoring wells, or irrigation wells were identified within the mainline ROW during the site reconnaissance.

6.4 Hydrology – USGS 7.5 Minute Topographic Maps

Based on the topographic maps, multiple hill tops and low, wet areas are depicted within the project limits and adjacent areas. The highest elevation (165 feet) in the area is located ¼ mile north of the SR 429/I-4 interchange on the east side of SR 429. The lowest elevation (70 feet) is located in the south-central area. Slope is generally towards the south.

Reedy Creek intersects I-4 in the eastern area, and Davenport Creek intersects I-4 in the western area. Slope is generally towards Reedy Creek in the eastern area, and Davenport Creek in the western area.

Three manmade ponds (borrow pits) were depicted along the south side of I-4 from 1970 to 1985. Anticipated shallow groundwater flow is variable.

7.0 Interviews

Communication with landowners, facility operators, residents, and governmental agencies can aid in the understanding of past and current land uses within the study area. Where possible or when necessary, interviews or requests for information are collected in an effort to identify potential concerns associated with petroleum storage tanks; automotive or marine, maintenance, service or repair facilities; dry-cleaning processes; and other industrial or agricultural operations that could affect the project.

The following interviews were conducted, or attempted for this evaluation:

- Site 4 – During the site reconnaissance on October 14, 2021, an interview was performed with Danny (no last name given), a worker onsite.
- Site 8 – During the site reconnaissance on July 8, 2022, an interview was performed with Mrs. Ann Clark, owner.
- Tierra requested copies of asbestos and metal-based coatings reports from Mr. Eric Krebill, FTE’s DCIC via email on August 4, 2022 for twelve structures (bridges) to be renovated/demolished. In his response, Mr. Krebill stated no asbestos or metal-based coating reports were found. See email, including list of bridge numbers, last in **Appendix F**. See recommendations in **Section 9.2** (Additional Considerations).
- Site 8, Site 9, and Basin 203, Alt 3 – A telephone interview was performed with

For Sites 4 and 8, these interviews and/or correspondences are documented in **Table 1** in **Section 8.0**.

8.0 Project Impacts

Based on the methodologies performed, twenty-four contamination sites were identified within the study area which may impact the proposed improvements (**Table 1**). The location of each contamination site and drainage site is illustrated in **Appendix A**. Contamination impacts to construction may occur during anticipated subsurface work activities including excavation, dewatering, moving or adding buried utilities, drilling, etc.

Table 1: Mainline Contamination Sites						
Site Number/ EDM Number	Site Name & Address	Databases/ Facility ID/ Or Other Source	Distance from ROW	Contaminants of Concern	Risk Rating	Comments
1	Groves/Crops	ERIC_12895 (Magnolia Creek East) TANKS 9100367 (Herman J. Heidrich & Sons)	Within and adjoining PPEC ROW and Within and adjoining I-4 ROW	Petroleum, Herbicides, Pesticides, and Arsenic	Low	<p>Former groves/crops were identified within the SR 429 ROW and adjoining areas on both the topographic maps (1953 to 1985) and historical aerial photographs from at least 1944 to 2018. Groves/Crops were not identified during the site reconnaissance. The former groves/crops were redeveloped as SR 429, I-4, and other roads, and surrounding commercial and residential developments. The outline of the groves (and former groves) presented in Appendix A, Sheets A-1 to A-4 is based on the maximum limits of the groves between 1944 and 2018. Agricultural land uses such as citrus groves/row crops can be associated with contamination from residual pesticides, herbicides, metals, and petroleum contaminants in the soil and groundwater. Agricultural uses of organic and inorganic pesticides and herbicides are exempt from most RCRA provisions, provided that the farmers apply the chemicals on their own farms and in accordance with labeled instructions. Spills, improper application, too much application and application of disallowed pesticides are not exempted from these requirements. The potential for contamination is more concentrated at “source areas” such as mix/load areas, storage/maintenance facilities (i.e. pole barns, equipment maintenance shops, etc.), and at diesel-powered irrigation pumps. No structures were noted within the PPEC ROW, I-4 ROW, or adjoining areas associated with the groves/row crops/planted pine trees. Potential soil impacts are considered a low risk since mitigation (earthwork/blending of soils) occurred during redevelopment as SR 429.</p> <p>The following two regulatory files were found in EDM’s proximal records:</p> <p><u>ERIC_12895 - Magnolia Creek East</u> A letter found on the FDEP OCLUS database and dated August 7, 1997 states ethion (pesticide) contaminated groundwater was remediated, and chlordane (pesticide) contaminated soil was removed offsite. Laboratory results for soil and groundwater were below CTLs. Although a map included in the report depicts much of the project within the Magnolia Creek East property (2,100 acres), the pesticide impacted area is depicted 1,100 feet southwest of proposed PPEC ROW. A No Further Action was issued on October 29, 1997. See excerpts in Appendix F. Given the separation distance and regulatory status, the pesticide impacted area is considered a low risk.</p> <p><u>TANKS 9100367 – Herman J. Heidrich & Sons</u> The Contamination Assessment Report – 2,100 Acre Site dated February 1991 included a figure which depicts “visibly stained soils” at two maintenance/equipment sheds, and the tank farm located over 2,500 feet southwest of the proposed PPEC ROW. The report states four 30,000-gallon petroleum ASTs, and five petroleum USTs were previously removed. The report states groundwater analytical results were below the “action levels...qualifying the site for a monitoring only program.” Depth to groundwater ranged from 30 to 41 feet below land surface (bls). Although natural attenuation monitoring of groundwater was recommended, given the separation distance, this site is a low risk.</p> <p>This site is assigned a risk rating of Low. This risk rating is not consistent with the risk rating assigned for Site 3 (Medium) in the overlapping (FPID: 446164-1) project to the north. For this project (446581-1), a risk rating of Low has been assigned since potential soil impacts are considered a low risk since mitigation (earthwork/blending of soils) occurred during redevelopment of SR 429.</p>

Table 1: Mainline Contamination Sites

Site Number/ EDM Number	Site Name & Address	Databases/ Facility ID/ Or Other Source	Distance from ROW	Contaminants of Concern	Risk Rating	Comments
2	Central Florida Pipeline (Stations 235 to 251, 1029 to 1030, 6200 to 6240, and 6290 to 6315) southern portion of project	Site Reconnaissance	Within proposed PPEC ROW and adjacent south side of I-4 east of PPEC	Petroleum	Low	<p>This was identified as Site 5 – Petroleum Pipeline in the Contamination Tech Memo (Mainline and Ponds) dated October 26, 2021 (Central Florida Expressway Authority Project Number 538-235, Poinciana Parkway (SR 538) Extension – Segment 2 from Osceola Polk Line Road (CR 532) to Orange Blossom Trail (US 17/92)). No discharges were reported. This site was assigned a risk rating of Low.</p> <p>During the site reconnaissance, Central Florida Pipeline (CFP) signage for a buried petroleum/ethanol pipeline was noted within and adjacent to the proposed ROW south of I-4. This site is depicted in Appendix A, Sheets A-1, A-2 and A-5. No discharges were identified in EDM’s report, the FDEP Map Direct database, or the USDOT Pipeline and Hazardous Materials Safety Administration, National Pipeline Mapping System (NPMS) Public Viewer database. Signage stated Kinder Morgan was the responsible party. This includes CFP Valve Station 16-20 located at Station 240+3 LT. According to information found on the Central Florida Pipeline website, “pipeline operating conditions are monitored 24 hours a day, 7 days a week by personnel in control centers using a Supervisory Control and Data Acquisition (SCADA) computer system. This electronic surveillance system gathers such data as pipeline pressures, volume and flow rates and the status of pumping equipment and valves.”</p> <p>Given the lack of a reported discharge, this site is assigned a risk rating of Low. This risk rating remains consistent with the adjoining south Central Florida Expressway Authority project.</p>
3	Barn 1 (no address) SR 532	NA	200 feet south of proposed PPEC ROW	Petroleum, Hazardous materials (automotive fluids, solvents, chicken feed/wastes)	No	<p>This site was identified as Site 9 – Barn 1 in the Contamination Technical Memorandum Poinciana Parkway (SR 538) Extension – Segment 2 (CFEA No. 538-235) dated October 26, 2021. This site is depicted in Appendix A, Sheet A-1. The Contamination Tech Memo states: During the site reconnaissance, this site was observed as a barn, with a concrete floor. Approximately 10 to 15 automobiles were observed within the barn and scattered on this parcel. A chicken pen was observed within the east end of the barn. Several unlabeled, blue 55-gallon drums were noted near the east end of the barn. Approximately ten 1-gallon containers (labeled antifreeze and oil) were stored on bare soil along the east fence line, just east of the barn. Storage tanks, stained soil and stressed vegetation were not noted. This site is first depicted on the 1999 aerial photograph. Given the use as an automotive repair facility, this site is assigned a risk rating of Low.</p> <p>During the July 2022 site reconnaissance, similar conditions were noted.</p> <p>For this evaluation, given the separation distance of 200 feet, this site is assigned a risk rating of No.</p>

Table 1: Mainline Contamination Sites

Site Number/EDM Number	Site Name & Address	Databases/Facility ID/Or Other Source	Distance from ROW	Contaminants of Concern	Risk Rating	Comments
4	Buried Debris and Barn 2 6802 Osceola Polk Line Road Station 6200+00 to 6202+00	NA	Within proposed PPEC ROW	Solid Waste	Low	<p>This site was identified as Site 10 – Buried Debris, and Site 11 – Barn 2 in the Contamination Technical Memorandum Poinciana Parkway (SR 538) Extension – Segment 2 (CFEA No. 538-235) dated October 26, 2021. This site is depicted in Appendix A, Sheet A-1. The Technical Memorandum states: Based on a review of Tierra’s Roadway Soil Survey Report dated July 28, 2021, a total of 28 test pits/strips were performed on July 12 and 13, 2021 to evaluate the approximate limits of buried debris. Buried debris was identified from station 6200+00 to 6202+00, and consists primarily of concrete and asphalt. However, small amounts of buried plastic, metal, and possibly wood were also encountered. The depth of buried debris was from land surface to a depth of four feet below land surface (bls). No hazardous materials, petroleum products, or other contamination concerns were identified in the report, or the test pit/strip photographs. Recommendations state buried debris “shall be excavated, disposed of off-site and not reused within the project.” Since hazardous materials and petroleum products were not identified, no further evaluation is recommended. Although contamination concerns were not identified, this site was assigned a Medium risk rating at the request of the District One DCIC. During the July 2022 site reconnaissance, the buried debris area was overgrown.</p> <p>Although two structures were observed on this parcel only the northern structure is located within the PPEC project limits. The northern structure consists of a former cantina (with a concrete floor) used as a storage building for an auction business. Multiple apartments, two restrooms and offices were also noted. A debris pile (4 cubic yards) of plastic, wood and household items was noted east of the structure, and a pile (3 cubic yards) of roof shingles was noted near the southwest corner of the structure. Danny (no last name given) was interviewed during the October 14, 2021 site visit and stated he has leased the property for seven years and used it as an auction storage facility. Petroleum products and hazardous materials were not noted.</p> <p>The southern barn/storage building (also within the same parcel) was identified as Site 11 – Barn 2 and is located 15 feet south of the project limit. During the 2021 site reconnaissance, this site was observed as a barn/storage building. A concrete floor was noted in the tool and maintenance area within the northeast corner of the barn. Although much of the barn was caged off and inaccessible, hazardous wastes, petroleum products, and stained soils were not noted within or near the barn. The barn was filled primarily with household goods (primarily furniture, televisions, etc.). Approximately 10 to 15 automobiles were observed scattered on this parcel. This site is first depicted on the 1999 aerial photograph. During the July 2022 site reconnaissance, although some of the vehicles and stored items were removed or moved, similar conditions were noted. Given the separation distance, this structure is considered a low risk.</p> <p>Although the buried debris was assigned a risk rating of Medium for the District One evaluation, since petroleum and hazardous materials were not identified, this site is assigned a risk rating of Low.</p>
5	Residence 2 6812 Osceola Polk Line Road	NA	Within proposed PPEC ROW	Petroleum, Hazardous Materials (automotive fluids, paints, solvents, pool cleaning chemicals)	Low	<p>During the site reconnaissance, this site was observed as a residence. This site is depicted in Appendix A, Sheet A-1. The eastern portion of the house and a partially covered patio are located within the PPEC ROW. No ASTs, drums, buckets, stained soils or stressed vegetation were noted. A utility shed and pool are located west of the PPEC ROW. Contamination concerns (typically small quantities of petroleum, paints, etc.) associated with the utility shed are considered a low risk. The residence was first depicted on the 1999 aerial photograph.</p> <p>A filled area was depicted 130 to 400 feet north of the residence (Station 6208+00 to Station 6211+00) from 2009 to 2010. During the site reconnaissance, this area was observed an open field with elevations similar to surrounding areas. No evidence of petroleum products, hazardous materials or buried debris were noted. A small area (20 square feet) of asphalt was noted near the northern boundary. Aerial photographs depict vehicles, including dump trucks and semi-trucks parked in this area from 2009 to 2017. No stained soil or stressed vegetation was noted. The filled area is considered a low risk.</p> <p>This site is assigned a risk rating of Low.</p>

Table 1: Mainline Contamination Sites

Site Number/EDM Number	Site Name & Address	Databases/Facility ID/Or Other Source	Distance from ROW	Contaminants of Concern	Risk Rating	Comments
6	Sabal Trail Transmission Reunion 6781 Osceola Polk Line Road	FLR000225318	Adjacent east of PPEC ROW	Hazardous Materials (ignitable waste, lead, benzene, tetrachloroethylene, solvents)	Low	<p>This was identified as Site 03 in the Poinciana Parkway Extension (SR 538) PD&E Study (CFEA No. 599-224) CSER dated May 2019. It was assigned a risk rating of Low since it was listed as a Small Quantity Generator (SQG) of hazardous wastes with no violations. This was the only contamination site identified within ½-mile of this study. The same site was identified as Site 12 in the Contamination Technical Memorandum Poinciana Parkway (SR 538) Extension – Segment 2 (CFEA No. 538-235) dated October 26, 2021. It was assigned a risk rating of Low for similar rationale. It is a compressor station for the 517-mile Sabal Trail Transmission natural gas pipeline. This site is depicted in Appendix A, Sheet A-1. According to the FDEP letter dated September 13, 2022, this site was determined to be a Very Small Quantity Generator of Hazardous Waste (less than or equal to 100 kilograms per month non-acute, and/or less than or equal to 1 kilogram per month acute), which includes ignitable waste, lead, benzene, tetrachloroethylene, and solvents.</p> <p>Based on information found on the Osceola County Property Appraiser (OCPA) database, a utility easement is located within the proposed ROW, and the actual above-ground compressor station facility is located adjacent east. During the site reconnaissance, this site was observed as Sabal Transmission Reunion Compressor Station. This site was first depicted on the 2017 aerial photograph.</p> <p>This site is assigned a risk rating of Low.</p>
7	21 Palms RV Resort WWTP 6781 Osceola Polk Line Road	FLA010985	Within and adjacent west of proposed PPEC ROW	Petroleum, domestic waste, hazardous materials (chlorine disinfectants)	Low	<p>During the site reconnaissance, this site was observed as 21 Palms RV Resort, including a domestic wastewater treatment plant. A storage building with a concrete floor was noted northeast of the WWTP. A portion of the storage building (northeast portion) is located within the PPEC ROW. This site is depicted in Appendix A, Sheet A-1. One 550-gallon diesel AST situated on concrete was noted along the north boundary of this site, 150 feet west of the PPEC ROW. Given the separation distance, this AST is considered a low risk. Several trailers, equipment/appliances, and parts were stored north and east of the WWTP. This site was first depicted on the 1995 aerial photograph. No groundwater monitoring wells were noted. The domestic nature of the WWTP is considered a low risk.</p> <p>Given the proximity, and domestic nature of the wastewater treatment facility, this site is assigned a risk rating of Low.</p>
8	1225 Sullivan Road	NA	Within proposed PPEC ROW	Petroleum, Hazardous Materials (automotive fluids, paints, solvents, pesticides)	Medium	<p>Site access was denied during the site reconnaissance. Typically, petroleum products and hazardous materials are stored and used to maintain livestock, and maintain/operate farm equipment. Mrs. Ann Clark, owner, stated “no petroleum products or hazardous materials” were present. She further stated the property was historically used for cattle, and was not aware of a cattle dip vat. Based on the 2021 aerial photograph, this site consists of at least two structures and pasture. This site is depicted in Appendix A, Sheet A-1. Three structures and a cattle pen (or remnants) are depicted within the PPEC ROW from 1958 to 1999. Two structures and multiple vehicles or equipment are depicted from 1995 to 2021. Two of these structures are depicted on topographic maps from 1953 to 1985. Presumably, at least one of the structures is a residence. Based on aerial photographs, the structure located near Station 6285 was replaced with the current circa 2004. In a telephone interview performed on November 2, 2022, a Tierra field technician described what he recalled during the course of his work. He stated a mobile home, and a pole barn, and the overgrown remains of a cattle pen were noted within the ROW. The cattle pen remains are located east of the mobile home and pole barn. ASTs, 55-gallon drums, a cattle dip vat, and petroleum products and hazardous materials were not noted. Several vehicles were abandoned at the pole barn.</p> <p>Given the unknown nature of current site conditions, this site is assigned a risk rating of Medium.</p>
9	1235 Sullivan Road	NA	Adjacent southwest of proposed PPEC ROW	Petroleum, Hazardous Materials (automotive fluids, paints, solvents, pesticides)	Low	<p>Although access to this site was denied during the site reconnaissance, this site was observed from adjacent areas as a residence. Several vehicles were noted on this parcel. The house and some of the vehicles were located south of the PPEC ROW. This site is depicted in Appendix A, Sheet A-1. This site was first depicted on the 1944 aerial photograph. It was depicted on topographic maps from 1953 to 1985. In a telephone interview performed on November 2, 2022, a Tierra field technician described what he recalled during the course of his work. He stated an old house and a shed were noted in the northwest portion of this parcel adjacent southwest of the ROW. ASTs, 55-gallon drums, and petroleum products and hazardous materials were not noted. Several vehicles were stored near the house.</p> <p>Given the lack of a site reconnaissance by an environmental professional, and the possibility for petroleum and/or hazardous material impacts, this site is assigned a risk rating of Low.</p>

Table 1: Mainline Contamination Sites

Site Number/EDM Number	Site Name & Address	Databases/Facility ID/Or Other Source	Distance from ROW	Contaminants of Concern	Risk Rating	Comments
10	Golf at Reunion Resort (Formerly Heidrich & Sons/ Magnolia Creek East) 7593 Gathering Drive	TANKS 9100367 ERIC_12895	150 feet west of Proposed PPEC ROW	Pesticides, Herbicides, Arsenic, Petroleum	Low	<p>During the site reconnaissance, this site was observed as Golf at Reunion Resort golf course. This site is depicted in Appendix A, Sheets A-1 and A-2. The nearest portion of the golf course is located 200 feet southwest of the PPEC ROW. The golf maintenance facility is located over 5,000 feet south of the PPEC ROW. Areas of concentrated contamination concern at golf courses typically include the maintenance facilities where petroleum products are stored/used, equipment maintenance is performed, and storage, mixing and loading of herbicides and pesticides takes place. Application of herbicides and pesticides is presumed to be consistent with manufacturer and regulatory guidelines. No groundwater monitoring wells were noted. The use as a golf course is considered a low risk to the PPEC ROW.</p> <p>Aerial photographs depict rangeland in 1944, groves from 1958 to 1983, pasture from 1996 to 2004, and a golf course since 2005. The nearest portion of the groves were located 200 feet southwest of the PPEC ROW.</p> <p>Regulatory files found associated with historic use as groves are discussed in Site 1. However, this site is considered a low risk given the separation distance of 150 feet to the golf course, and former groves.</p> <p>This site is assigned a risk rating of Low.</p>
11	FGT Davenport Compressor Station 31 727 S. Old Lake Wilson Road	NA	Adjacent south of I-4, east of PPEC ROW, and west of the PPEC entrance ramp to I-4	Petroleum	Low	<p>During the site reconnaissance, this site was observed as the Davenport Compressor Station, a natural gas facility. This site is depicted in Appendix A, Sheet A-2. Although the parcel is located within the PPEC ROW, the structures are located adjoining/adjacent east. The containment vault which contains one 2,000-gallon “Saleable Gas” (recycled/reused pipeline condensate) AST, one 2,000-gallon petroleum contact water (PCW) AST, and a 1,000-gallon lube oil AST is located 120 feet east of the nearest PPEC ROW. PCW is generated when motors/engines are washed/cleaned. The rinse water is collected in a sump, piped to the PCW AST, which is pumped out as needed, and disposed offsite. This site is first depicted on the 2004 aerial photograph. No regulatory files were found.</p> <p>Given the separation distance of 120 feet to the nearest contamination concern, and lack of a reported discharge, this site is assigned a risk rating of Low.</p>
12	East Green Swamp Station 456 S. Old Lake Wilson Road	NA	Adjacent south of I-4, east of PPEC ROW, and west of the PPEC entrance ramp to I-4	Hazardous materials (Mercaptan)	Low	<p>During the site reconnaissance, this site was observed as Gulfstream’s East Green Swamp Station 456, a natural gas facility. This site is depicted in Appendix A, Sheet A-2. One mercaptan (an odorant) AST was noted 250 feet west of Station 240+4 LT. According to the Sabal Transmission website, mercaptan is “injected into the natural gas for safety reasons. It creates a recognizable odor, often compared to rotten eggs, which helps consumers identify or detect a leak. It is not harmful and will dissipate. In some cases, the smell of mercaptan may linger if minute traces of the odorant separate from natural gas that has risen and been absorbed into the atmosphere.” No regulatory files were found. According to the Preliminary Engineering Report, Gulfstream Natural Gas maintains a 16-inch and 24-inch-high pressure transmission pipeline within the project limits. It is located southeast of the SR 429 / I-4 interchange and runs parallel to I-4.</p> <p>This site is assigned a risk rating of Low.</p>
13	Former RV Park S. Old Lake Wilson Road	NA	Adjacent south of I-4, east of PPEC ROW, and west of the PPEC entrance ramp to I-4	Hazardous materials (chlorine disinfectants)	Low	<p>During the site reconnaissance, concrete remnants of former structures were noted. Based on aerial photographs, the former facility may have been an RV park with a WWTP. This site was depicted on aerial photographs from 1996 to 1999. Remnants of the former facility are depicted on the 2021 aerial photograph. No regulatory files were found. Contamination concerns typically include hazardous materials associated with domestic wastewater treatment, and small quantities of petroleum products and hazardous materials used to maintain the facility. Additionally, redevelopment as the interchange during 2005 to 2006 included earthwork (mixing and blending of soils) which would provide some level of mitigation.</p> <p>Given the proximity, and lack of documented contamination concerns, this site is assigned a risk rating of Low.</p>

Table 1: Mainline Contamination Sites

Site Number/ EDM Number	Site Name & Address	Databases/ Facility ID/ Or Other Source	Distance from ROW	Contaminants of Concern	Risk Rating	Comments
14	SBA Cell Tower S. Old Lake Wilson Road	NA	Adjacent south of I-4, east of PPEC ROW, and west of the PPEC entrance ramp to I-4	Petroleum	Low	During the site reconnaissance, this site was observed as an SBA cell tower. Two diesel generator with base ASTs were noted at this site. No stained soil or stressed vegetation were noted. This site is depicted in Appendix A, Sheet A-2 . This site was first depicted on the 2005 aerial photograph. No regulatory files were found. This site is assigned a risk rating of Low.
15	Lift Station 14851 Coastal Court	NA	420 feet east of PPEC ROW,	Petroleum	No	During the site reconnaissance, this site was observed as a lift station. One diesel generator with a base AST was noted. No stains or stressed vegetation were noted. This site is depicted in Appendix A, Sheet A-2 . This site was first depicted on the 2021 aerial photograph. No regulatory files were found. This site is assigned a risk rating of No.
16	Ethylene Dibromide (EDB) Groundwater Contamination Zone #49263268 No address	FDEP Zone ID 49263268	Within SR 429/I-4 interchange ROW Southwest of Station 6335+00 to Station 6350+00	EDB	Low	This EDB groundwater plume is depicted in Appendix A, Sheet A-2 , and on EDM's Environmental Impact Areas Map in Appendix D near the central portion of the project. According to information obtained from the FDEP Delineation database (http://www.dep.state.fl.us/water/groundwater/delineate.htm), from 1962 to mid-1983, the Florida Department of Agriculture and Consumer Services conducted widespread field application of a soil fumigant, ethylene dibromide (EDB or Dibromoethane 1,2-), to control nematodes in citrus groves. EDB was also used by private citizens on golf courses and on crops such as peanuts and soybeans. The extent of contamination is estimated by the FDEP using a geo-statistical tool called variogram analysis. Where data is incomplete, a 1000-foot protective setback is placed around the contaminated site or well to estimate the extent of the contaminated plume. Additionally, the FDEP has delineated areas of Florida where EDB was historically applied but for which little or no ground water quality data exist. The latest maps produced by the FDEP were approved in 1994. The density of EDB is greater than that of water and therefore sinks through the water column until impeded by an impermeable soil stratum. Since impacts to the project from groundwater are unlikely since EDB is denser than water, potential remnant soil impacts from the application of EDB were likely mitigated during redevelopment, and dewatering, if required, would likely be confined to the shallow surficial aquifer, the EDB plume is assigned a risk rating of Low.
17	TECO Osceola Gate Station 710 N. Lake Wilson Road	NA	Adjoining north	Hazardous Materials	Low	During the site reconnaissance, this site was observed as TECO Peoples Gas Natural Gas Facility, Osceola Gate / 545 Gate Station. This site is depicted in Appendix A, Sheet A-2 . This site was first depicted on the 1996 aerial photograph. A hazardous materials placard was noted at this facility. One 500-gallon poly AST (no label), and a concrete containment structure (20 feet by 10 feet) were noted at this facility. Although no ASTs were present within the concrete containment structure, it appeared similar to those used for ASTs. No regulatory files were found. This site is assigned a risk rating of Low.
18	Mystic Dunes Resort & Golf Club 7600 Mystic Dunes Lane	NA	Adjacent east of SR 429 ROW	Pesticides, Herbicides, Arsenic, Petroleum	Low	During the site reconnaissance, this site was observed as Mystic Dunes Resort and Golf Club. This site is depicted in Appendix A, Sheets A-2 and A-3 . Areas of concentrated contamination concern at golf courses typically include the maintenance facilities where petroleum products are stored/used, equipment maintenance is performed, and storage, mixing and loading of herbicides and pesticides takes place. The maintenance/storage facility was noted over ½ mile east of the SR 429 ROW. Application of agricultural chemicals is presumed to be consistent with manufacturer and regulatory guidelines. Aerial photos depict this site under construction in 1999, and completed in 2004. No groundwater monitoring wells were noted. Therefore, this site is assigned a risk rating of Low. This risk rating is consistent with the risk rating assigned for Site 3 in the overlapping (FPID: 446164-1) project to the north.

Table 1: Mainline Contamination Sites

Site Number/ EDM Number	Site Name & Address	Databases/ Facility ID/ Or Other Source	Distance from ROW	Contaminants of Concern	Risk Rating	Comments
19 (EDM 3)	<p>Sand Hill WWTP 3211 Sand Hill Road</p> <p>Kissimmee City-Sand Hill WWTP 8000 Sand Hill Road</p> <p>KISSIMMEE City- WWTP 300 Sand Hill Road</p> <p>8200 Sand Hill Road</p>	<p>TANKS 9103166</p> <p>TANKS 9100608 (Historical Entry- no files found)</p> <p>FDEP WASTEWATER FLA010958</p>	1,900 feet north of project limit	Petroleum, Hazardous Materials (de-odorants, chlorine-based cleaning agents)	Low	<p>Although this site is located 1,900 feet north of the project limit, it is included in Table 1 since it is proximal to three drainage sites (Basin 200, Alt 1, Alt 2, and Alt 3).</p> <p>During the site reconnaissance, this site was observed as Sandhill Road Wastewater Treatment Facility (WWTF), an active domestic wastewater treatment plant. This site is depicted in Appendix A, Sheet A-3. Portions of this facility were under construction. This site was first depicted on the 1995 aerial photograph.</p> <p>A cell tower was also noted 200 feet west of the ROW. One emergency generator with a propane AST was observed at the cell tower. Therefore, the cell tower site is not a contamination concern.</p> <p>EDM's report states this site has three registered emergency generator diesel ASTs. Two ASTs (5,000-gallons and 6,000-gallons) remain in service. The generators/ASTs were not noted during the site reconnaissance. One 2,000-gallon AST was removed in 2005. No discharges were reported. Facility status is listed as open. Thirty-two files were found on the OCULUS database dated 1991 to 2019. The most recent inspection dated February 28, 2019 noted multiple violations which included corrosion on aboveground piping, faulty equipment, and administrative items. The Orange County Environmental Protection Division issued a "Return to Compliance" letter on May 17, 2019. The March 23, 2022 tank registration form found on the FDEP OCULUS database states one 12,051-gallon diesel AST for a generator would be installed in June 2022.</p> <p>The Tank Closure Assessment Report dated 2005 (post removal assessment of a 2,000-gallon AST) states laboratory results were below SCTLs for the one soil sample collected for analysis, and organic Vapor Analyzer (OVA) readings were not detected (0.0 parts per million) in the five soil borings performed in November 2005. Each soil boring was completed to a depth of 11 feet bls. Shallow groundwater was not encountered at the soil boring locations. However, the measured depth of shallow groundwater was 31.75 feet bls "in a nearby monitor well" at this facility. Since contaminated soils were not identified, and the depth of shallow groundwater was beyond 30 feet bls, no monitor wells were installed and no groundwater samples were collected. A figure in the report depicts the former AST located within the SR 429 ROW.</p> <p>Tierra emailed Ms. Amber Morgan of the Toho Water Authority on March 28, 2022 for further information. Ms. Morgan provided two figures depicting the monitor well locations, and the most recent Quarterly Groundwater Monitoring reports (October 2021 to December 2021) for four compliance wells (MWC-1, 60 feet bls, MWC-3, 41 feet bls, MWC-6, 39.5 feet bls, MWC-8 (depth not given)), and one background well (MWB-7). MW-2 and MW-4 were abandoned. Nitrogen, Nitrate Total (as N) exceeded the permit requirement of 10 milligrams per liter (mg/L) for MWC-3 (18.2 mg/L), MWC-6 (12.5 mg/L), and MWC-8 (13.1 mg/L). See maps and documents provided by Ms. Morgan in Appendix F. Monitor wells MWC-1, MWC-3 and MWC-6 are located west of SR 429 and basically surround the six Rapid Infiltration Basins (RIBs) located in the northern portion of the WWTP. Two wells were installed in 2013: background well MWB-7, located one mile north of the WWTP; and MWC-8, located 0.4 miles southeast of the WWTP, and 550 feet east of the SR 429 ROW. Laboratory results of 0.032 mg/L for Nitrogen, Nitrate Total (as N) at MWB-7 were below the permit requirement of 10 mg/L. Groundwater Sampling Logs state depth to groundwater at the WWTP (MWC-1, MWC-3, and MWC-6) ranged from 29.91 feet bls to 46.90 feet bls in December 2021. Depth to groundwater at MWC-8 was 27.00 feet bls in December 2021.</p> <p>Based on information found on the Osceola County Property Appraiser database, this facility was built in 1991, and is owned by Tohopekaliga Water Authority (TWA); with an address of "8200 Sand Hill Road."</p> <p>Although laboratory results for Nitrogen, Nitrate Total (as N) exceed the groundwater permit requirement at three compliance wells located east (MWC-8) and west (MWC-3 and MWC-6) of SR 429, construction impacts are not anticipated at or below the depth of shallow groundwater. Therefore, this site is assigned a risk rating of Low. This risk rating is consistent with the risk rating assigned for Site 4 in the overlapping (FPID: 446164-1) project to the north.</p>

Table 1: Mainline Contamination Sites

Site Number/EDM Number	Site Name & Address	Databases/Facility ID/Or Other Source	Distance from ROW	Contaminants of Concern	Risk Rating	Comments
20	Osceola Substation 2360 World Drive (Interior Street)	NA	Adjacent north of I-4 ROW	MODEF, PCBs LEAD	Low	During the site reconnaissance, this site was observed as Osceola Substation. This site is depicted in Appendix A, Sheet A-5 . This site is first depicted on the 1999 aerial photograph. Contaminants typically associated with electrical substations include petroleum based Mineral Oil Dielectric Fluid (MODEF), Polychlorinated Biphenyls (PCBs), and lead. Additionally, buried asbestos-cement pipes used as wiring conduits may be found in older substations. No stained soil/gravel or stressed vegetation was noted. No regulatory files were found. This site is assigned a risk rating of Low.
21	Lake Wilson Substation 1001 N. Lake Wilson Road	Waste Cleanup ERIC_12920	1,200 feet north of I-4 ROW	MODEF, PCBs LEAD	No	During the site reconnaissance, this site was observed as Osceola Substation. This site is depicted in Appendix A, Sheet A-5 . Two generators with base ASTs (diesel) were noted. No stained soil/gravel or stressed vegetation was noted. This site is first depicted on the 1999 aerial photograph. Contaminants typically associated with electrical substations include petroleum based MODEF, PCBs, and lead. Additionally, buried asbestos-cement pipes used as wiring conduits may be found in older substations. An FDEP letter found on the FDEP OCULUS database dated June 19, 2009 states “the requirements of the Department approved Substation Assessment and Remedial Action Plan (SARAP) have been met. Additional action will not be required at this time.” No assessment documents were found. Given the separation distance, this site is assigned a risk rating of No.

Table 1: Mainline Contamination Sites

Site Number/ EDM Number	Site Name & Address	Databases/ Facility ID/ Or Other Source	Distance from ROW	Contaminants of Concern	Risk Rating	Comments
22 (EDM 1)	Best Diversified, Inc./ P&D Landfill 945 Old Lake Wilson Road	ERIC_9113 TANKS 9700134 SLDWST_LF 26040	250 feet north of Proposed I-4 ROW	Ammonia-N, Total Dissolved Solids (TDS), Petroleum	Medium	<p>During the site reconnaissance, this site was observed as woods. This site is depicted in Appendix A, Sheets A-2 and A-5. A concrete slab and one small concrete block shed with a 2-inch diameter pipe (presumably for a potable water well) were noted in the northwest area. In the southwest area, an area (100-feet by 100-feet) was recently filled to five feet above grade. Although the fill material was primarily soil, asphalt, concrete, metal, plastic, carpet, several empty 5-gallon buckets (crushed), and wood debris were also mixed in. No stained soil was noted.</p> <p>EDM's report states this site was used for construction and demolition debris. Status is listed as "No Further Action." A total of 79 documents (dates ranging from April 22, 1991 to March 27, 2020) were found on the FDEP OCULUS database on June 14, 2022.</p> <p>The FDEP's <i>Completion of Agreement for Closure OGC #96-0520</i> letter dated November 19, 2013 states the facility "met the requirements of the Agreement for Closure of Former C&D Landfill 945 Old Lake Wilson Road." The letter further states the site was properly capped, and based on the results of groundwater and surface water quality sampling the landfill is having minimal effect on the groundwater and surface water on the property. Additionally, "long-term activities as described in Rule 62-670.730, F.A.C. including groundwater monitoring, are not required." The owner "must consult with FDEP's Central District before initiating any activities that may disturb the waste." See letter in Appendix F.</p> <p>The <i>Summary of Water Quality Data – January 2011 through June 2013, Former Best Diversified Landfill (BDL) property</i>, dated August 23, 2013 states this 40-acre site was used as a construction and demolition debris landfill from 1985 to 1997. It was vacant in 2013. The report concludes although ammonia-N and Total Dissolved Solids (TDS) exceed the GCTL, groundwater and surface water are "very stable," and the "landfill is having a minimal effect on the groundwater and surface water quality on the property." Groundwater flow is to the south-southeast, towards the I-4 ROW. Depth to shallow groundwater ranged from 32 feet bls (MW-8) near the northwest corner to 3 feet bls (MW-9A) in the southeast area. See excerpts in Appendix F.</p> <p>TANKS – One 1,000-gallon diesel AST was registered in 1994. The local tank program representative was unable to determine the disposition of this AST in 2000. Although no discharges were reported, photos included in the dated January 31, 1997 depict ten 55-gallon drums and three ASTs (1,000-gallons, 500-gallons, and 300-gallons). Although no ASTs or drums were noted during the site reconnaissance, much of the parcel was densely overgrown. A site sketch dated January 31, 1997 depicts the three ASTs and 55-gallon drum storage area near the northwest corner of the parcel, 2,000 feet northwest of the I-4 ROW. Given the separation distance, petroleum impacts are considered a low risk.</p> <p>Based on aerial photographs, this site was depicted as rangeland and a trail in 1944 and 1959, two structures were depicted in the northwest area from 1969 to 1983. One of these structures remained through 2008. Clearing in the northwest area, and two manmade ponds were depicted in 1971, debris piles and more clearing, earthwork, and haul roads are depicted in 1983. One manmade pond was depicted from 1994 to 2021. The site appears overgrown and abandoned from 1999 to 2021, except clearing/earthwork (possibly grading) is depicted in the southwest area in 2010, and again in 2014. See aerial photographs dated 1983 to 1996 in Appendix B.</p> <p>Based on the topographic maps, undeveloped land, wooded swamp or marsh were depicted in 1953 and 1970. In addition, two structures and a manmade pond were depicted in 1980, 1983, and 1985. Groundwater appears to flow from a higher elevation in the northwest corner to the east and southeast, towards Reedy Creek and the I-4 ROW. Buried debris is not considered a concern to the I-4 ROW.</p> <p>Given the GCTL exceedances for ammonia-N and TDS, and groundwater flow towards the I-4 ROW, this site is assigned a risk rating of Medium if dewatering is required.</p>

Table 1: Mainline Contamination Sites

Site Number/EDM Number	Site Name & Address	Databases/Facility ID/Or Other Source	Distance from ROW	Contaminants of Concern	Risk Rating	Comments
23	Reunion West Golf Course 775 Golden Bear Drive	NA	Adjacent north of I-4 ROW	Pesticides, Herbicides, Arsenic, Petroleum	Low	During the site reconnaissance, this site was observed as Reunion West golf course. This site is depicted in Appendix A, Sheets A-2 and A-4 . Areas of concentrated contamination concern at golf courses typically include the maintenance facilities where petroleum products are stored/used, equipment maintenance is performed, and storage, mixing and loading of herbicides and pesticides takes place. The maintenance/storage facility was noted over 1 mile southeast of the SR 429 ROW. Application of herbicides and pesticides is presumed to be consistent with manufacturer and regulatory guidelines. Aerial photos first depict this site in 2004. No groundwater monitoring wells were noted. Therefore, this site is assigned a risk rating of Low.
24	Planted Pine Trees	NA	Within and adjoining PPEC ROW	Herbicides, Pesticides, and Arsenic	Low	During the site reconnaissance, two areas of planted pine trees were noted adjoining east and west of SR 429. This site is depicted in Appendix A, Sheet A-2 . The planted pine trees were noted on aerial photographs from at least 1995 to 2021 in the north-central portion of the project (north and south of Sinclair Road). No regulatory files were found and no contamination issues have been documented. According to the USEPAs <i>National Management Measures to Control Nonpoint Source Pollution from Forestry</i> (page 2-13) dated April 2005: <i>Fertilizers, herbicides, and pesticides are used to prepare a site for regeneration and to protect forests from disease and pests. Adverse effects on water quality due to forest chemical applications typically result from not following the specific application instructions for the chemical being used, such as specifications for the quantity to apply and the distance to maintain around watercourses (Norris and Moore, 1971). Generally, the water quality and aquatic biota threats due to fertilizers, herbicides, and pesticides are small because the chemicals are applied at most only one to three times at a harvest site and they specifically target biochemical pathways present only in plants, rendering them of little danger to aquatic animals. Furthermore, the half-lives of forestry herbicides are on the order of less than 100 days.</i> This site is assigned a risk rating of Low. This risk rating is consistent with the risk rating assigned for Site 2 in the overlapping (FPID: 446164-1) project to the north.

Table 2 presents the findings for twenty-eight drainage alternatives. These drainage sites are illustrated in Appendix A.

Table 2: Drainage Sites				
Drainage Basin	Drainage Alternative	Appendix A Sheet	Risk Rating	Comments
206	1	A-1	Low	<p>During site reconnaissance, this site was observed as pasture and low, wet wooded areas. Offsite, Site 7 - 21 Palms RV Park located adjoining west, and Site 2 – Central Florida Pipeline located 450 feet east are both considered a low risk.</p> <p>Historic aerial photographs depict rangeland, and wooded, low wet areas in 1944. Cleared land was depicted in the central area, and a manmade ditch was depicted in the southeast area in 1958. In 1968, a trail was depicted in the northwest area. A haul road, and staging area (power poles, vehicles, equipment) were depicted in 2013. It appeared to be associated with utility easement expansion farther east. Another staging area, including mobile office trailers was depicted in 2017. It appeared to be associated with construction farther east. A manmade pond is located along the west boundary. Topographic maps depict undeveloped land with a wooded swamp or marsh in the northern area, a stream in the southeast area, and a small pond near the west boundary from 1953 to 1985. A manmade pond was depicted along the west boundary from 1970 to 1985. No regulatory listings were identified onsite.</p> <p>Alt 1 is assigned a risk rating of Low.</p>
	2	A-1	Low	<p>During site reconnaissance, this site was observed as an open field/pasture with Site 5 - 6812 Osceola Polk Line Road (residence) partially located onsite near the southeast corner. Site 5 was previously discussed in Table 1. A pool, and a storage shed, typically found with small quantities of petroleum products and paints is also within Alt 2.</p> <p>Historic aerial photographs depict rangeland in 1944. Pasture was depicted from 1958 to 2021. A haul road was first depicted in the southern area in 1983. The house located onsite near the southeast boundary was first depicted in 1999. Topographic maps depict undeveloped land from 1953 to 1985. No regulatory listings were identified onsite.</p> <p>Alt 2 is assigned a risk rating of Low.</p>
	3	A-1	Low	<p>During the site reconnaissance, this pond was observed as an open field and woods. An unpaved road is located onsite near the west boundary. Signage for a buried petroleum/ethanol pipeline (Site 2 – Central Florida Pipeline) was observed onsite along the west side of the unpaved road. Additionally, markers for a natural gas pipeline (Florida Southeast Connection) are located in the central portion of Alt 3. Site 6 - Sabal Trail Transmission Reunion facility, located 200 feet north of Alt 3 is considered a low risk.</p> <p>Historic aerial photographs depict pastureland and trails in 1944. A cattle pen was depicted in the south-central area from 1983 to 2004. The unimproved road near the west boundary onsite was first depicted in 1983. One high tension utility pole was first depicted in 2014. Disturbed land is depicted in the central area in 2017 (associated with buried natural gas pipeline). Offsite north, Osceola Polk Line Road is first depicted in 1968. Offsite south, an unimproved road was first depicted in 1983.</p> <p>Topographic maps depict undeveloped land and a powerline from 1953 to 1985. An unimproved road is depicted in the central area from 1970 to 1985.</p> <p>No regulatory listings were identified onsite.</p> <p>Alt 3 is assigned a risk rating of Low.</p>
205	1	A-1	Low	<p>During the site reconnaissance, Alt 1 was observed as woods, trails, and a powerline easement. Site 2 – Central Florida Pipeline is located in the western portion of Alt 1, within the powerline easement.</p> <p>Historic aerial photographs depict rangeland and a trail/road at the northeast corner in 1944. The utility easement was first depicted in 1968. A second overhead powerline was depicted in 2013. Clearing to widen the utility easement was depicted on the 2017 aerial photograph.</p> <p>Topographic maps depict a powerline easement, undeveloped land, wooded swamp or marsh, and a trail near the northeast corner from 1953 to 1985.</p> <p>No regulatory listings were identified onsite.</p> <p>Alt 1 is assigned a risk rating of Low.</p>
	2	A-1	Low	<p>During the site reconnaissance, Alt 2 was observed as woods, with sandy clearings.</p> <p>Historic aerial photographs depict rangeland and trails in 1944. Clearing was depicted in 1968. Woods and undeveloped land is depicted from 1974 to 2001.</p> <p>Topographic maps depict undeveloped land, and wooded swamp or marsh from 1953 to 1985.</p> <p>No regulatory files were found.</p> <p>Alt 2 is assigned a risk rating of Low.</p>

Table 2: Drainage Sites

	3	A-1	Low	<p>During the site reconnaissance, this site was observed as woods. A trail is located along the south and west boundaries onsite. An abandoned truck, and one 500-gallon AST (no labels, presumably water) were situated on the concrete pad located along the south boundary. Stained soil and stressed vegetation were not noted. Landscape debris and soil stockpiles were noted near the south boundary. To a much lesser extent, concrete rubble, wood, household debris, and a trailer filled with pool chairs was also noted in this area. See photographs in Appendix E. Site 7 – 21 Palms RV Park WWTP located adjoining south is considered a low risk.</p> <p>Historic aerial photographs depict rangeland and trails in 1944. Clearing and possibly vehicles and/or equipment are depicted near the south boundary in 2004. Between one and four RVs or trailers are depicted in the southeast area from 2004 to 2008. Debris and soil stockpiles, and vehicles/equipment were depicted in the southeast area from 2006 to 2021.</p> <p>Offsite, clearing and earthwork is depicted along the south-central boundary in 1995.</p> <p>Topographic maps depict undeveloped land, and wooded swamp or marsh from 1953 to 1985.</p> <p>No regulatory files were found.</p> <p>Alt 3 is assigned a risk rating of Low.</p>
204	1	A-1	Low	<p>Although site access was denied during the site reconnaissance, from adjacent southeast, Alt 1 was observed as pasture. Based on the 2021 aerial photograph, this site was observed as pasture. One structure (possibly a dumpster), and several vehicles/equipment, and a trail are depicted near the northwest corner. Based on information found on the Osceola County Property Appraiser database, Alt 1 is a portion of the parcel located at 1200 Sullivan Road. In a telephone interview performed on November 2, 2022, a Tierra field technician described what he recalled during the course of his work. He stated this site included pasture and woods.</p> <p>Historic aerial photographs depict rangeland and a manmade ditch from 1944 to 2021. A trail/driveway was depicted in the northwest area from 1999 to 2021. One structure (possibly a dumpster), and several vehicles were depicted near the northwest corner from 2010 to 2021.</p> <p>Topographic maps depict undeveloped land from 1953 to 1985. Additionally, a manmade pond was depicted from 1980 to 1985.</p> <p>No regulatory files were found.</p> <p>Alt 1 is assigned a risk rating of Low.</p>
	2	A-1	Low	<p>During the site reconnaissance, this site was observed as woods.</p> <p>Historic aerial photographs depict rangeland, and trails from 1944 to 1958. Pasture and woods were depicted from 1968 to 1971, and woods from 1983 to 2021. Possibly one structure was depicted near the south-central boundary from 1944 to 1983.</p> <p>Topographic maps depict undeveloped land, and woods (eastern area) from 1953 to 1985.</p> <p>No regulatory files were found.</p> <p>Alt 2 is assigned a risk rating of Low.</p>
	3	A-1	Low	<p>During the site reconnaissance, this site was observed as woods and pasture. A cattle pen, and an abandoned road were noted in the central area. Site 2 – Central Florida Pipeline is located near the northeast corner within Alt 3.</p> <p>Historic aerial photographs depict rangeland, a road, and trails in 1944 to 2021. A cattle pen was first depicted in 1958.</p> <p>Topographic maps depict undeveloped land, two unimproved roads, woods (west area) and a utility easement (northeast corner) from 1953 to 1985.</p> <p>No regulatory files were found.</p> <p>Alt 3 is assigned a risk rating of Low.</p>

Table 2: Drainage Sites

203	1	A-1 A-2	Low	<p>During the site reconnaissance, this site was observed as woods with several trails. Landscape debris (limbs) piles with soil and concrete rubble was noted along the west boundary. Offsite, adjoining west, Site 10 – Golf at Reunion Resort golf course and Site 1 – Groves (former) are both considered a low risk to Alt 1. Offsite northeast, Site 2 – Central Florida Pipeline is considered a low risk.</p> <p>Historic aerial photographs depict rangeland, woods and trail from 1944 to 2021. It was partially cleared along the west boundary from 2004 to 2006.</p> <p>Topographic maps depict woods from 1953 to 1985.</p> <p>No regulatory files were found.</p> <p>Alt 1 is assigned a risk rating of Low.</p>
	2	A-1	Low	<p>During the site reconnaissance, this site was observed as woods. Site 2 – Central Florida Pipeline is located along the north and east boundaries onsite. Offsite, adjoining south, Site 10 – Golf at Reunion Resort golf course and Site 1 – Groves (former) are both considered a low risk to Alt 2.</p> <p>Historic aerial photographs depict woods and undeveloped land from 1944 to 2021.</p> <p>Topographic maps depict woods, wooded swamp or marsh, and undeveloped land from 1953 to 1985.</p> <p>No regulatory files were found.</p> <p>Given the buried petroleum pipeline onsite with no reported discharges, Alt 2 is assigned a risk rating of Low.</p>
	3	A-1	Medium	<p>Although site access was denied during the site reconnaissance, woods and an overgrown field was observed along the west boundary. Based on the 2021 aerial photograph, this site was observed as woods, with at least five structures noted in the east area, and an open field near the west boundary. Multiple vehicles and/or equipment were noted in the eastern area. Offsite, adjoining west, Site 10 – Golf at Reunion Resort golf course and Site 1 – Groves (former) are both considered a low risk. Offsite at the northeast corner, Site 2 – Central Florida Pipeline is considered a low risk. Based on information found on the Osceola County Property Appraiser database, two mobile homes were added in 1973 and 1987, and the address is 1241 Karson Korners Lane. In a telephone interview performed on November 2, 2022, a Tierra field technician described what he recalled during the course of his work. He stated this site included woods, a pole barn, various equipment/parts, a small home, and a road on the eastern portion of the parcel. He also noted 55-gallon drums, and equipment at the pole barn area near the southeast corner of Alt 3.</p> <p>Historic aerial photographs depict woods, a trail, a manmade ditch, and undeveloped land from 1944 to 1983. One structure and clearing/earthwork was depicted in the southeast area in 2004. Multiple vehicles and/or equipment, and possibly several structures were depicted in the east area from 2005 to 2021.</p> <p>Topographic maps depict woods, woods, undeveloped land, and a stream from 1953 to 1985.</p> <p>No regulatory files were found.</p> <p>Given the uncertain nature of the multiple vehicles/equipment and/or structures onsite in the east area, Alt 3 is assigned a risk rating of Medium.</p>
BSN Interchange	1	A-2	Low	<p>During the site reconnaissance, this site was observed as woods and low, wet areas. A natural gas pipeline (Sabal Trail Transmission) is located within Alt 1. No petroleum ASTs or hazardous materials storage containers were noted. Offsite, adjacent north and west Site 2 – Central Florida Pipeline is considered a low risk. Offsite, adjacent east Site 15 – Lift Station is considered a low risk.</p> <p>Historic aerial photographs depict woods, and low, wet areas from 1944 to 2021. Clearing/earthwork for the buried natural gas pipeline was depicted in the southern area in 2017.</p> <p>Topographic maps depicts woods, wooded swamp or marsh, a stream, and undeveloped land from 1953 to 1985.</p> <p>No regulatory files were found.</p> <p>Alt 1 is assigned a risk rating of Low.</p>
	2	A-2	Low	<p>During the site reconnaissance, this site was observed as woods and low, wet areas. A natural gas pipeline (Sabal Trail Transmission) is located within Alt 2. No petroleum ASTs or hazardous materials storage containers were noted. Offsite, adjacent west and south Site 2 – Central Florida Pipeline is considered a low risk.</p> <p>Historic aerial photographs depict woods, and low, wet areas from 1944 to 2021. Clearing/earthwork for the buried natural gas pipeline was depicted in the eastern area in 2017.</p> <p>Topographic maps depicts woods, wooded swamp or marsh, a stream, and undeveloped land from 1953 to 1985.</p> <p>No regulatory files were found.</p> <p>Alt 2 is assigned a risk rating of Low.</p>

Table 2: Drainage Sites

	Onsite	A-2	Low	<p>During the site reconnaissance, this site was observed as existing interchange ramps at the I-4/SR 429 interchange, including two bridges, grassy ROW, and low, wet areas. No petroleum ASTs or hazardous materials storage containers were noted.</p> <p>Historic aerial photographs depict rangeland, woods, and trails in 1944. Groves and an unpaved road were depicted from 1968 to 1983. A manmade ditch was first depicted in the northern area in 1968. The groves appeared abandoned 1995 to 2004. Construction for the interchange was depicted from 2004 to 2006. The interchange was first depicted in the current configuration in 2007. Since the former groves were redeveloped with the interchange, the former use as groves is considered a low risk.</p> <p>Topographic maps depicts an unpaved road, wooded swamp or marsh, a stream, and undeveloped land from 1953 to 1985.</p> <p>No regulatory files were found.</p> <p>Offsite, the nearest contamination site is Site 17 - TECO Osceola Gate Station, located 300 feet east of this pond site. Given the separation distance of 300 feet, and lack of a reported discharge, this is considered a low risk to this pond site. Other contamination sites in the vicinity were located over 400 feet away and considered a low risk.</p> <p>BSNINT Onsite is assigned a risk rating of Low.</p>
202	1	A-2	Medium	<p>During the site reconnaissance, this site was observed as woods and trails. Several debris piles (each 2-3 cubic yards) were noted in the northern area along the trail. Debris included wood, plastic, clothing, several tires, and household items. A cardboard box filled with approximately 8-10 weathered plastic containers (each 1-gallon to 2-gallons) was noted in the northwest area (28° 17.550N, 81° 36.240W). See photos in Appendix E. The containers were in poor condition and mostly filled with used oil. Some of the caps were missing from the containers. Stained leaves/soil was noted around the box and containers. Debris, including a jacuzzi, wood and sixteen tires were also noted in this area. Site 23 – Reunion West Golf Course, located adjoining south is considered a low risk to Alt 1.</p> <p>Historic aerial photographs depict rangeland and a trail in 1944. Groves were depicted from 1958 to 1983, and planted pine trees were depicted from 1995 to 2021.</p> <p>Topographic maps depict groves, with a wooded swamp or marsh in the southeast area from 1953 to 1985. A road was depicted in the western area from 1980 to 1985.</p> <p>No regulatory files were found.</p> <p>Given the historic use as groves, and the used oil containers with stained soil, Alt 1 is assigned a risk rating of Medium.</p>
	2	A-2	Medium	<p>During the site reconnaissance, this site was observed as an active construction site with heavy equipment and vehicles, fill material (soil), and equipment/pipes stored onsite. No petroleum ASTs or hazardous materials storage containers were noted. Signage states a buried natural gas pipeline (Sabal Trail Transmission) is located within Alt 2.</p> <p>Historic aerial photographs depict rangeland in 1944, groves from 1958 to 2004, and undeveloped land from 2005 to 2021. Earthwork for the buried natural gas pipeline was depicted in the southern area in 2017.</p> <p>Topographic maps depicts undeveloped land from 1953 to 1985.</p> <p>No regulatory files were found.</p> <p>Given the historic use as groves, Alt 2 is assigned a risk rating of Medium.</p>
	3	A-2	Medium	<p>During the site reconnaissance, this site was observed as a construction site (Illuminate Church) with several soil stockpiles, and equipment/pipes stored onsite. One tanker truck with a poly tank (no labels) was parked in the central area. Presumably the tanker was used for water. No stained soil or stressed vegetation was noted. No petroleum ASTs or hazardous materials storage containers were noted. Signage states a buried natural gas pipeline (Sabal Trail Transmission) is located within Alt 3. Planted pine trees were also noted in the northwest and eastern areas.</p> <p>Historic aerial photographs depict rangeland in 1944, groves from 1958 to 1983, and planted pine trees from 1995 to 2021. Earthwork for the buried natural gas pipeline was depicted in the southern area in 2017.</p> <p>Topographic maps depict groves from 1953 to 1985.</p> <p>No regulatory files were found.</p> <p>Given the historic use as groves, Alt 3 is assigned a risk rating of Medium.</p>

Table 2: Drainage Sites

201	1	A-2	Medium	<p>During the site reconnaissance, this site was observed as woods in the eastern area, and an open field in the western area. Although remnants (black 1-inch diameter hoses) of an agricultural irrigation system was noted in the northwest areas, no irrigation was noted (some areas were overgrown).</p> <p>Historic aerial photographs depict rangeland in 1944. Groves were depicted in the eastern area in 1958 to 1983, and the western area in 1969 to 2014. Planted pine trees were depicted in the east area from 1999 to 2021.</p> <p>The 1953 topographic map depicts woods in the western area, and groves in the eastern area. A road was depicted from 1970 to 1985.</p> <p>No regulatory files were found.</p> <p>Given the historic use as groves, Alt 1 is assigned a risk rating of Medium.</p>
	2	A-2	Medium	<p>During the site reconnaissance, this site was observed as woods in the northern area, and a manmade pond in the southern area.</p> <p>Historic aerial photographs depict rangeland in 1944. The northern area was depicted as woods from 1958 to 2021. In the eastern area, groves were depicted from 1958 to 1983, and planted pine trees from 1999 to 2004. In the western area, a road was depicted from 1983 to 2004. In the southern area, clearing/earthwork was depicted in 2005, and a manmade pond was depicted from 2006 to 2021.</p> <p>The 1953 topographic map depicts woods and groves. A road was also depicted from 1970 to 1985.</p> <p>No regulatory files were found.</p> <p>Given the historic use as groves, Alt 2 is assigned a risk rating of Medium.</p>
	3	A-2	Medium	<p>During the site reconnaissance, this site was observed as an active construction site with heavy equipment and vehicles, fill material (soil), equipment/pipes stored onsite. No petroleum ASTs or hazardous materials storage containers were noted. Signage states a buried natural gas pipeline (Sabal Trail Transmission) is located within Alt 2.</p> <p>Historic aerial photographs depict Alt 3 as rangeland in 1944, cleared land in 1958, groves from 1969 to 2004, and undeveloped land from 2005 to 2021. Earthwork for the buried natural gas pipeline was depicted in the southern area in 2017.</p> <p>Topographic maps depicts undeveloped land from 1953 to 1985.</p> <p>No regulatory files were found.</p> <p>Given the historic use as groves, Alt 3 is assigned a risk rating of Medium.</p>
	4	A-2	Low	<p>During the site reconnaissance, this site was observed as woods, and low, wet areas. An overgrown open field was observed in the northern area.</p> <p>Historic aerial photographs depict woods and a low, wet wooded areas from 1944 to 1971. A road was added in 1983. The northern area was used as a construction equipment/supplies staging area in 2006. Offsite, clearing and earthwork associated with SR 429 and Connector Road construction was depicted in surrounding areas in 2005 and 2006. Alt 4 is depicted as woods, and an abandoned road from 2007 to 2021.</p> <p>The 1953 topographic map depicts wooded swamp or marsh. A road was also depicted from 1970 to 1985.</p> <p>No regulatory files were found.</p> <p>Alt 4 is assigned a risk rating of Low.</p>
200	1	A-3	Medium	<p>During the site reconnaissance, this site was observed as woods, and low, wet areas. Signage states a buried natural gas pipeline (Sabal Gas Transmission) is located within the northern portion of Alt 1. The easement was similar, and included an open field. Offsite, adjoining north construction upgrades were ongoing at Site 19 – Sand Hill WWTP.</p> <p>Historic aerial photographs depict rangeland and a low, wet wooded area in 1944. Clearing/earthwork, groves, and trails were depicted from 1959 to 1995. Earthwork associated with the ditch and Sand Hill Road roadway construction was depicted along the east boundary in 2004. Clearing and six pieces of heavy equipment and/or trucks were depicted in 2017. The current configuration as woods and open field were depicted from 2018 to 2021.</p> <p>Topographic maps depict wooded swamp or marsh, and groves (east area) from 1953 to 1985. One structure was depicted onsite near the east boundary from 1980 to 1985.</p> <p>No regulatory files were found.</p> <p>Given the historic use as groves, Alt 1 is assigned a risk rating of Medium.</p>

Table 2: Drainage Sites

	2	A-3	Medium	<p>During the site reconnaissance, this site was observed as an open field. An electrical panel box was located near the southwest corner. This site is located within the Site 19 – Sand Hill WWTP property. A cell tower with an emergency generator base AST (diesel) and a propane AST is located adjacent west. No discharges were reported. Two abandoned groundwater monitoring wells (Site 19, MW-2 and MW-4) were noted approximately 50 feet north of Alt 2. According to regulatory files, these two monitor wells were initially installed as compliance wells for the WWTP RIBS. However after FDEP determined they were inadequate to serve as compliance wells, they were abandoned. No laboratory results were found.</p> <p>Historic aerial photographs depict rangeland in 1944, groves from 1959 to 1983, open field from 1995 to 1999, two haul roads in 2004, a construction staging yard with two structures (presumably office trailers) from 2005 to 2006, cleared land in 2007, several equipment storage piles (possibly pipes) from 2008 to 2012, and open field from 2013 to 2021.</p> <p>Topographic maps depict groves from 1953 to 1985.</p> <p>Although no regulatory files were found for Alt 2, Nitrogen, Nitrate Total (as N) exceeds the groundwater permit requirement at three compliance wells: MWC-3, MWC-6, and MWC-8. The nearest, MWC-6 is located 150 feet northwest of Alt 2. Groundwater Sampling Logs state depth to groundwater at the WWTP (MWC-1, MWC-3, and MWC-6) ranged from 29.91 feet bls to 46.90 feet bls in December 2021. Depth to groundwater at MWC-8 was 27.00 feet bls in December 2021. Given the depth of shallow groundwater, construction impacts are not anticipated. Therefore, Nitrogen, Nitrate Total (as N) in the groundwater is considered a low risk.</p> <p>Given the historic use as groves, Alt 2 is assigned a risk rating of Medium.</p>
	3	A-3	Medium	<p>During the site reconnaissance, this site was observed as woods, and low, wet areas. Signage states a buried natural gas pipeline (Sabal Gas Transmission) is located within the northern portion of Alt 3. The easement was similar, and included an open field. Offsite, adjoining north construction upgrades were ongoing at Site 19 – Sand Hill WWTP.</p> <p>Historic aerial photographs depict rangeland and a low, wet wooded area in 1944. Clearing/earthwork, groves, and trails were depicted from 1959 to 1995. Earthwork associated with the ditch and Sand Hill Road roadway construction was depicted along the east boundary in 2004. Six pieces of heavy equipment and/or trucks were depicted within the easement in 2017. The current configuration as woods and open field were depicted from 2018 to 2021.</p> <p>Topographic maps depict wooded swamp or marsh, and groves (east area) from 1953 to 1985. One structure was depicted south of the easement from 1980 to 1985.</p> <p>No regulatory files were found.</p> <p>Given the historic use as groves, Alt 3 is assigned a risk rating of Medium.</p>
109	1	A-2	Medium	<p>During the site reconnaissance, this site was observed as woods, and low, wet areas. The southwest area was a dry manmade detention pond. Signage states a buried natural gas pipeline (Sabal Trail Transmission) is located onsite along the north boundary, and east boundary. Offsite, adjoining northeast is Site 22 - Best Diversified, Inc./P&D, a closed, overgrown landfill.</p> <p>Historic aerial photographs depict woods and low, wet areas in 1944. Clearing was depicted in the southwest area in 1958, and groves were depicted from 1968 to 1983. A manmade pond was added in the central area in 1971. A manmade pond associated with residential development to the southwest was constructed in the southwest area of Alt 1 in 2015-2016. Clearing associated with the natural gas pipeline installation was depicted along the north and east boundaries in 2017.</p> <p>Topographic maps depict woods from 1953 to 1985. Undeveloped land was depicted in the southwest area.</p> <p>No regulatory files were found.</p> <p>Given the proximity to Site 22 (landfill) with GCTL exceedances, and use as groves (southwest area) Alt 1 is assigned a risk rating of Medium. Although not a contamination concern, the buried natural gas pipeline should be marked on the design plans.</p>
	2	A-2	Medium	<p>During the site reconnaissance, this site was observed as woods, and low, wet areas. Offsite, adjoining north is Site 22 - Best Diversified, Inc./P&D, a closed, overgrown landfill.</p> <p>Historic aerial photographs depict woods and low, wet areas from 1944 to 2021.</p> <p>Topographic maps depict woods and undeveloped land from 1953 to 1985.</p> <p>No regulatory files were found.</p> <p>Given the proximity to Site 22 (landfill) with GCTL exceedances, Alt 2 is assigned a risk rating of Medium.</p>

Table 2: Drainage Sites

	3	A-2 A-5	High	<p>Alt 3 is located entirely within Site 22 - Best Diversified, Inc./P&D Landfill. Although a search was conducted for the three ASTs and ten 55-gallon drums during the site reconnaissance, visibility was obscured by dense overgrowth for much of the site. Therefore, it is possible the ASTs and drums remain onsite. No assessment reports were found, and no assessment appears to have been performed in the vicinity of the ASTs and drums. Although no discharges were reported, photos included in the tank inspection file dated January 31, 1997 depict ten 55-gallon drums and three ASTs (1,000-gallons, 500-gallons, and 300-gallons). The ASTs were in containment, but it was not clear if the drums were. Both of these storage areas were well-stained in the photographs. See excerpts in Appendix F. A site sketch dated January 31, 1997 depicts the three ASTs and 55-gallon drum storage area near the northwest corner of the parcel, just east of the former office. Additionally, evidence of recent fill (soil, concrete, plastic, metal, wood, several crushed 5-gallon buckets) was noted during the July 2022 (after the 2013 closure was issued) site reconnaissance. See photos in Appendix E. Impacts to construction may occur during anticipated subsurface activities such as excavation, dewatering, drilling, adding utilities, etc. Buried debris will be encountered during construction. As previously noted for Site 22, depth to shallow groundwater ranged from 32 feet bls (MW-8) near the northwest corner to 3 feet bls (MW-9A) in the southeast area of the landfill. Given the GCTL exceedances for ammonia-N and TDS, the uncertain disposition and poor handling practices of three ASTs and the 55-gallon drums, the presence of unsuitable fill material/buried debris, and the continued use as a landfill in 2022, Alt 3 is assigned a risk rating of High.</p>
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9.0 Conclusions and Recommendations

9.1 Conclusions

Based on this contamination screening evaluation, a total of twenty-four contamination sites were identified within the project limits. The following table presents a summary of the risk ratings assigned for each contamination site/facility:

Table 3: Summary of Risk Ratings – Mainline Sites			
High	Medium	Low	No
0	4	17	3

The following table presents a summary of the risk ratings assigned for drainage sites:

Table 4: Summary of Risk Ratings – Drainage Sites			
High	Medium	Low	No
1	12	15	0

9.2 Recommendations

Based on the conclusions of this study and the risk ratings noted above, the following recommendations are made.

- Additional information may become available or site-specific conditions may change from the time this report was prepared and should be considered prior to acquiring right-of-way (if required) and/or proceeding with roadway construction. If the preferred alignment or drainage location changes, and/or new potential contamination sites are constructed, this report should be revised and updated to reflect those changes.
- For the locations rated “No” or “Low” for contamination, no further action is required. These locations have been determined not to have a contamination risk level which warrants further assessment at this time.
- Level II testing is recommended for the two mainline sites rated Medium (none were rated High). A site specific Level II scope of services should be developed for each of these sites to be reviewed and approved by the District Contamination Impact Coordinator (DCIC). The scope of services should include a boring location plan depicting the soil and groundwater testing locations, including the contamination source (i.e. tanks, stained soil, etc.), sample depth intervals, and analytical parameters. The Level II can include hazardous material surveys, land boundary surveys, soil borings, monitor well installation, soil and groundwater sampling, laboratory testing, mounding analysis, the use of an Organic Vapor Analyzer (OVA), and Ground Penetrating Radar (GPR). Level II testing is performed by the Contamination Assessment and Remediation Contractor (CAR) and coordinated with

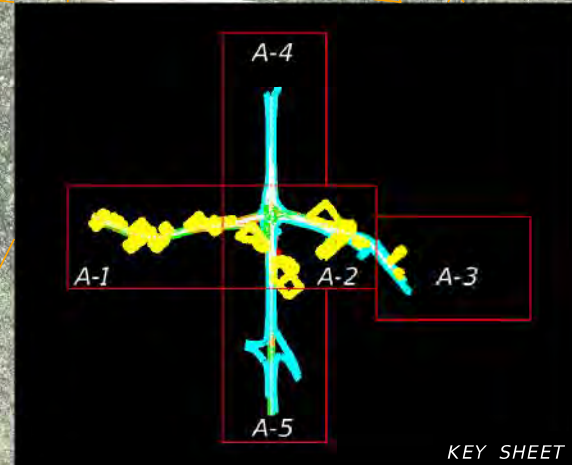
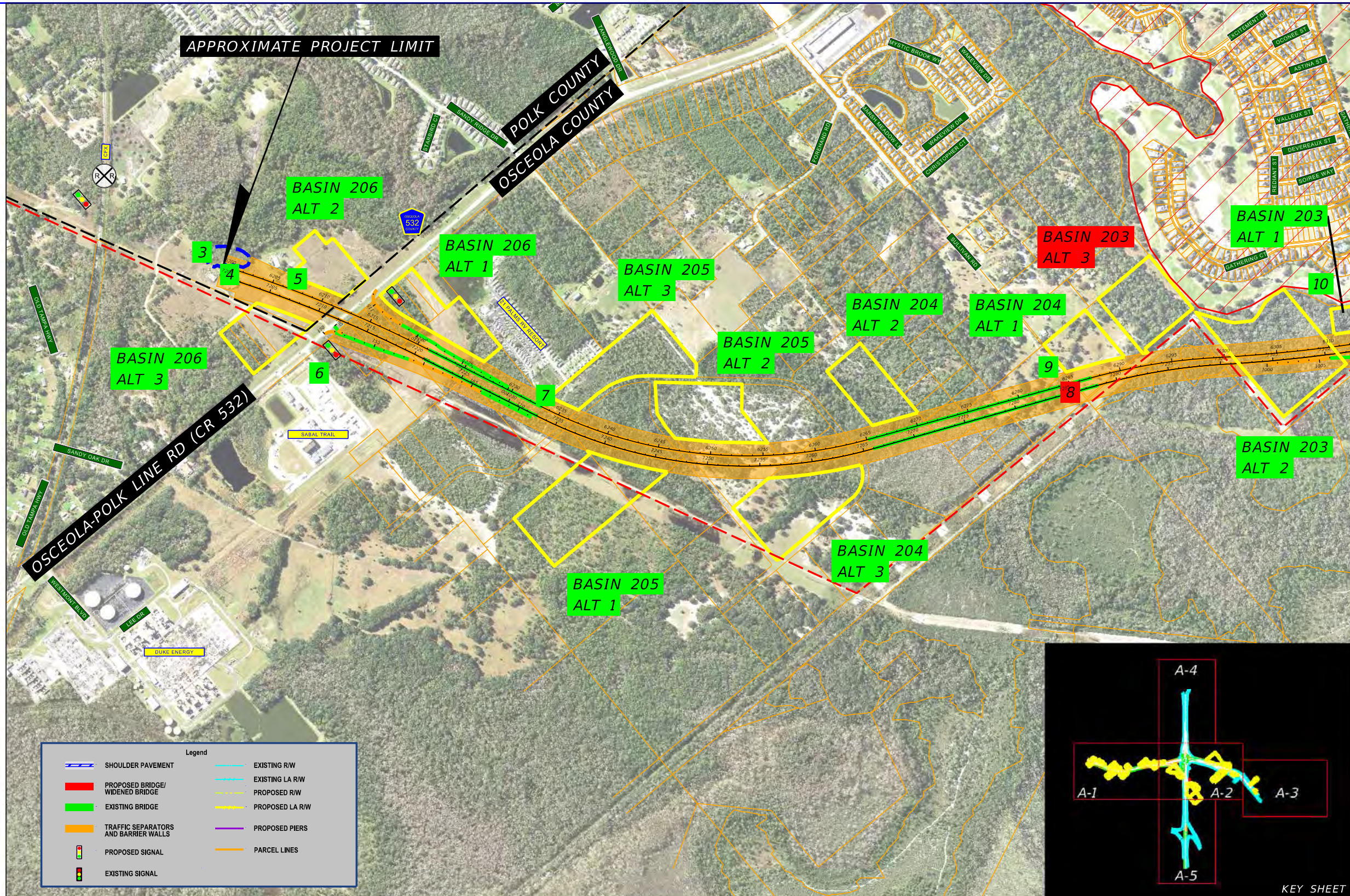
the Florida Turnpike Enterprise DCIC and the Project Manager. Further evaluation and Level II testing, if deemed appropriate by the DCIC, is recommended for the following:

- 1225 Sullivan Road (Site 8) – Since access was denied, a site reconnaissance is recommended. If potential contamination impacts such as petroleum stained soils and/or stressed vegetation associated with hazardous materials and/or petroleum products are noted, or a cattle dip vat is noted, then testing may be recommended at that time.
- Landfill (Site 22) – Level II testing for groundwater should include Ammonia-N by EPA Method 350.1, Total Dissolved Solids (TDS) by EPA Method 160.1, and metals (RCRA 8) using EPA Method 6010, mercury by EPA Method 7470/7471, Volatile Organic Compounds (VOCs) by EPA Method 8260, Polyaromatic Hydrocarbons (PAHs) by EPA Method 8270, Total Recoverable Petroleum Hydrocarbons (TRPH) by FL PRO, including fractionation when applicable. OVA screening is also recommended. Based on a review of historical aerial photographs, and regulatory file information, buried debris does not appear to be an issue within the PPEC ROW, but would be for Basin 109, Alt 3. Level II testing costs are estimated at \$5,000 to \$10,000 per site.
- A total of thirteen drainage sites were rated High (1) or Medium (12). Level II testing for drainage sites may be deferred to the design phase after the preferred drainage sites have been determined. A site specific Level II scope of services should be developed for each of these sites to be reviewed and approved by the DCIC. The scope of services should include a boring location plan depicting the soil and groundwater testing locations, including the contamination source (i.e. tanks, stained soil, etc.), sample depth intervals, and analytical parameters. The Level II can include hazardous material surveys, land boundary surveys, soil borings, monitor well installation, soil and groundwater sampling, laboratory testing, mounding analysis, soil gas testing, the use of an OVA, test pits, and GPR. Level II testing is performed by the CAR and coordinated with the Florida Turnpike Enterprise DCIC and the Project Manager.
- Once final design plans are available, additional review is recommended in consideration of dewatering operations that may be necessary under the *National Pollutant Discharge Elimination System Generic Permit for Stormwater Discharges from Large and Small Construction Activities*. Verification testing may be warranted for contamination issues within 500 feet of the dewatering area. If Level III support is needed for National Pollution Discharge Elimination System permitting and treatment, costs can reach up to \$100,000 per site.
- Although buried petroleum and natural gas pipelines were not rated High or Medium, the contractor should be made aware of any buried pipelines within both the PPEC mainline

ROW, and drainage sites (Basin 109, Alt 1, Basin 200, Alt 1 and Alt 3, Basin 201, Alt 2 and Alt 3, Basin 203, Alt 2, Basin 204, Alt 2, Basin 205, Alt 1, Basin 206 Alt 1 and Alt 3, and Basin Interchange Alt 1 and Alt 2) prior to construction activities. Pipelines should be marked and noted on the design plans.

- During construction, if abnormal conditions are encountered or exposed indicating the presence of contaminated materials, cease operations immediately in the vicinity and notify the FTE's DCIC. The presence of tanks or barrels; discolored earth, metal, wood, ground water, etc.; visible fumes; abnormal odors; excessively hot earth; smoke; or other conditions that appear abnormal may indicate the presence of contaminated materials and must be treated with extreme caution. These unidentified contamination areas should be managed in accordance with FDOT Specification **120-1.2 Unidentified Areas of Contamination**.
- Additional Considerations: In accordance with PD&E Manual, Part 2, Chapter 20, Section 20.2.2.2, projects which involve existing bridges, building structures, and possibly existing or abandoned utilities which will be moved or demolished may need surveys or screenings for Asbestos Containing Materials, Lead-Based Paint, and/or other Metal-Base Coatings. Although requested from the FTE DCIC, no asbestos or metals based coating reports were found for the twelve bridge/culvert structures which may require demolition or modification for this project. Therefore, FTE should consider performing the asbestos and metals base coatings surveys for these structures, and the structures located within proposed ROW at Sites 4, 5, 7, 8, and 22.

APPENDIX A CONTAMINATION SITES MAP



SOURCE: FDOT SURVEY AND MAPPING DATED 2020

- SITE 1 - GROVES/CROPS - LOW RISK RATING
- SITE 2 - CENTRAL FLORIDA PIPELINE - LOW RISK RATING
- SITE 4 - BURIED DEBRIS - LOW RISK RATING

POTENTIAL CONTAMINATION & DRAINAGE SITES MAP ALTERNATIVE 2

- LOW/NO RATED SITES
- HIGH/MEDIUM RATED SITES

2/7/2023 8:27:34 AM bgarcia J:\6511\2020 Files\6511-20-202 Western Bellway and Poinciana Ext PD&E FTE\001_Poinciana_446581-1\ORD\6511-20-202-001\geotecnical\NEW\BORRD_ENV_POTCONTAM1.dgn

REVISIONS	
DATE	DESCRIPTION

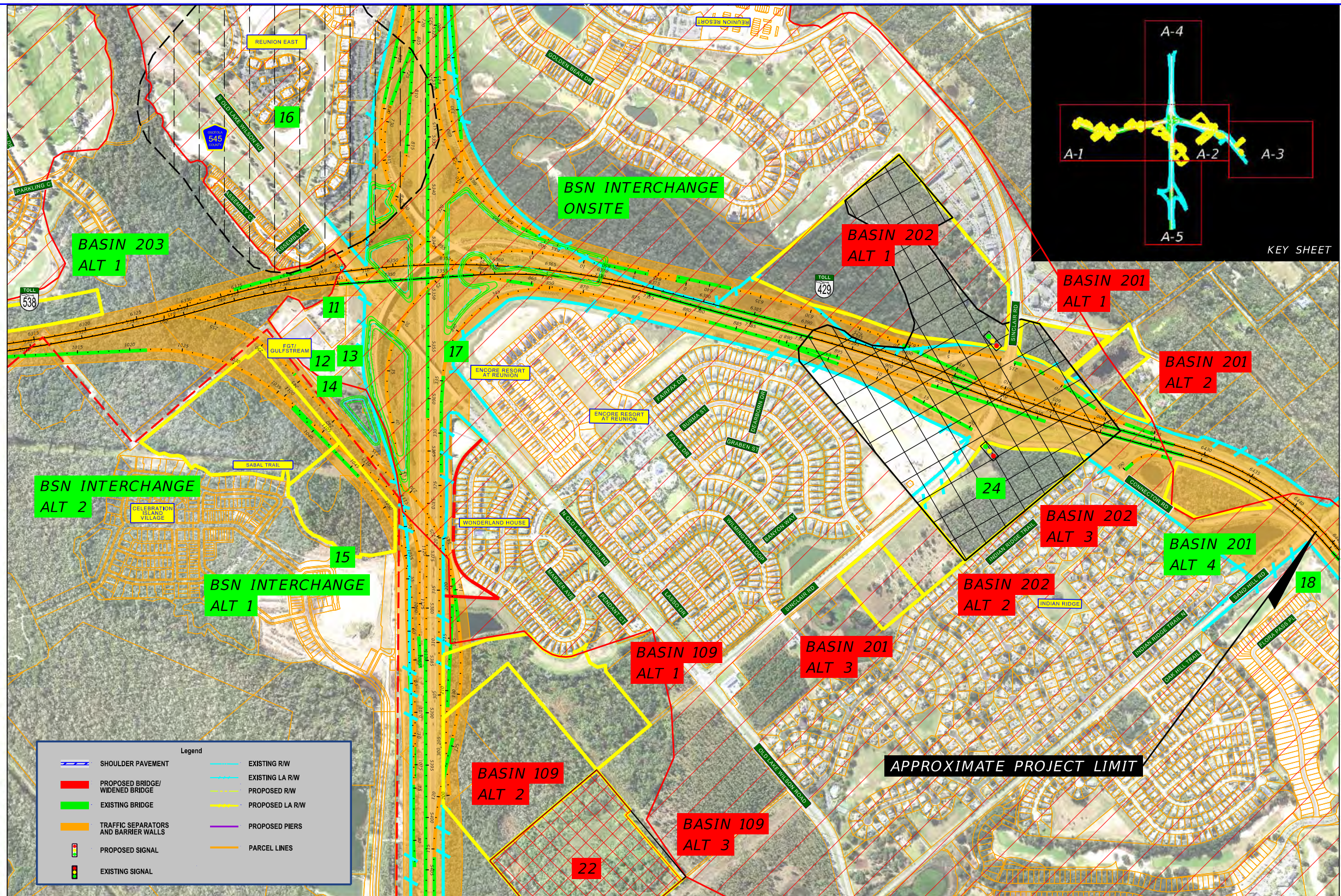
TIERRA PROJECT NO.: 6511-20-202-001E

TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OSCEOLA POLK	446581-1-22-01

**POINCIANA PARKWAY
EXTENSION CONNECTOR
PD&E STUDY**

SHEET NO.
A-1



Legend	
	SHOULDER PAVEMENT
	PROPOSED BRIDGE/WIDENED BRIDGE
	EXISTING BRIDGE
	TRAFFIC SEPARATORS AND BARRIER WALLS
	PROPOSED SIGNAL
	EXISTING SIGNAL
	EXISTING R/W
	EXISTING LA R/W
	PROPOSED R/W
	PROPOSED LA R/W
	PROPOSED PIERS
	PARCEL LINES

- SITE 1 - GROVES/CROPS - LOW RISK RATING
- SITE 2 - CENTRAL FLORIDA PIPELINE - LOW RISK RATING
- SITE 24 - PLANTED PINE TREES - LOW RISK RATING

POTENTIAL CONTAMINATION & DRAINAGE SITES MAP ALTERNATIVE 2

SOURCE: FDOT SURVEY AND MAPPING DATED 2020

- LOW/NO RATED SITES
- HIGH/MEDIUM RATED SITES
- SITE 16 - EDB ZONE 49263268 - LOW RISK RATING
- SITE 22 - BEST DIVERSIFIED P&D LANDFILL - MEDIUM RISK RATING

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REVISIONS	
DATE	DESCRIPTION

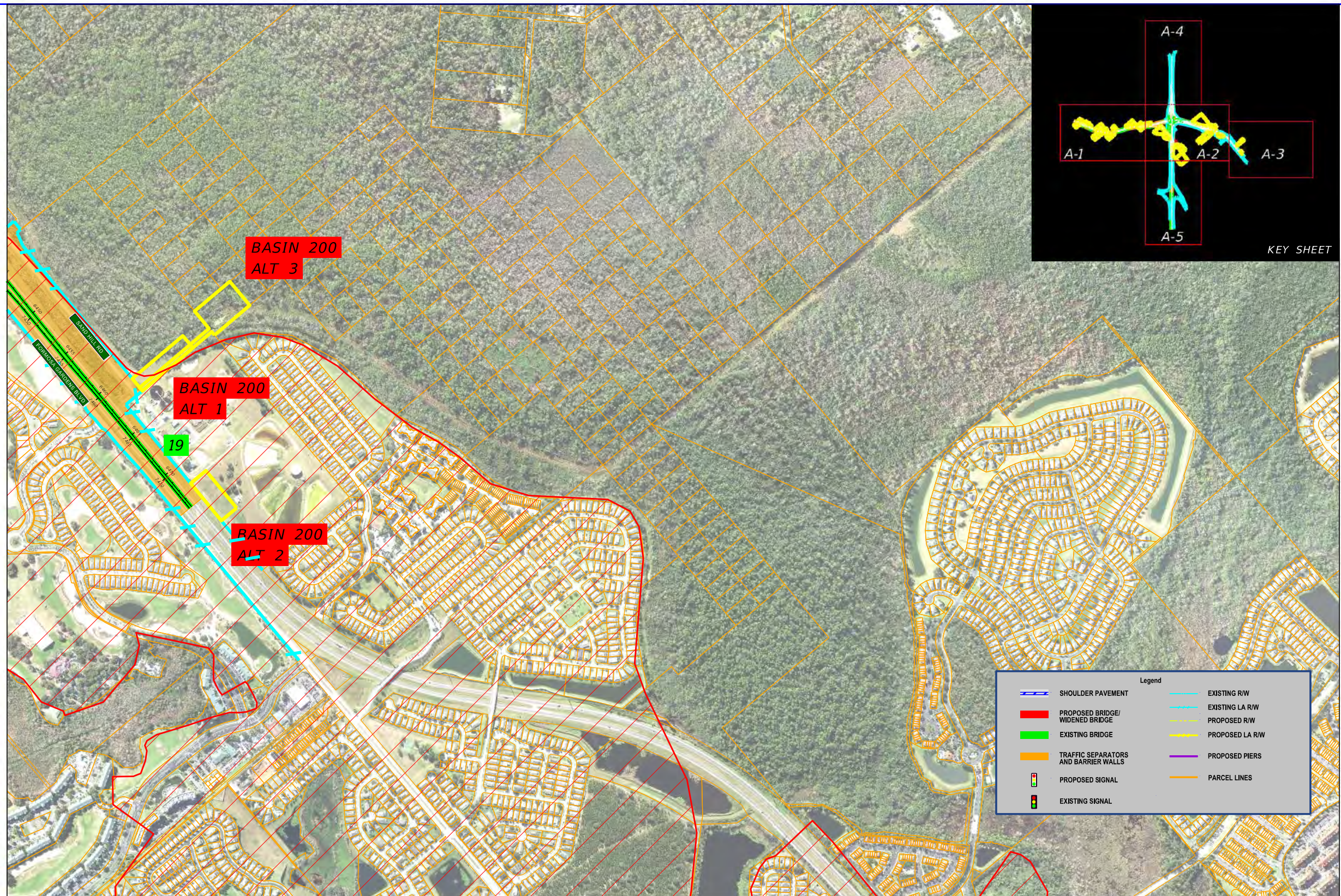
TIERRA PROJECT NO.: 6511-20-202-001E

TIERRA, INC.
 7351 TEMPLE TERRACE HIGHWAY
 TAMPA, FLORIDA 33637

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OSCEOLA POLK	446581-1-22-01

**POINCIANA PARKWAY
 EXTENSION CONNECTOR
 PD&E STUDY**



SHEET
 NO.
 A-2



SOURCE: FDOT SURVEY AND MAPPING DATED 2020

 SITE 1 - GROVES/CROPS - LOW RISK RATING

POTENTIAL CONTAMINATION & DRAINAGE SITES MAP ALTERNATIVE 2

 LOW/NO RATED SITES
 HIGH/MEDIUM RATED SITES

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REVISIONS	
DATE	DESCRIPTION

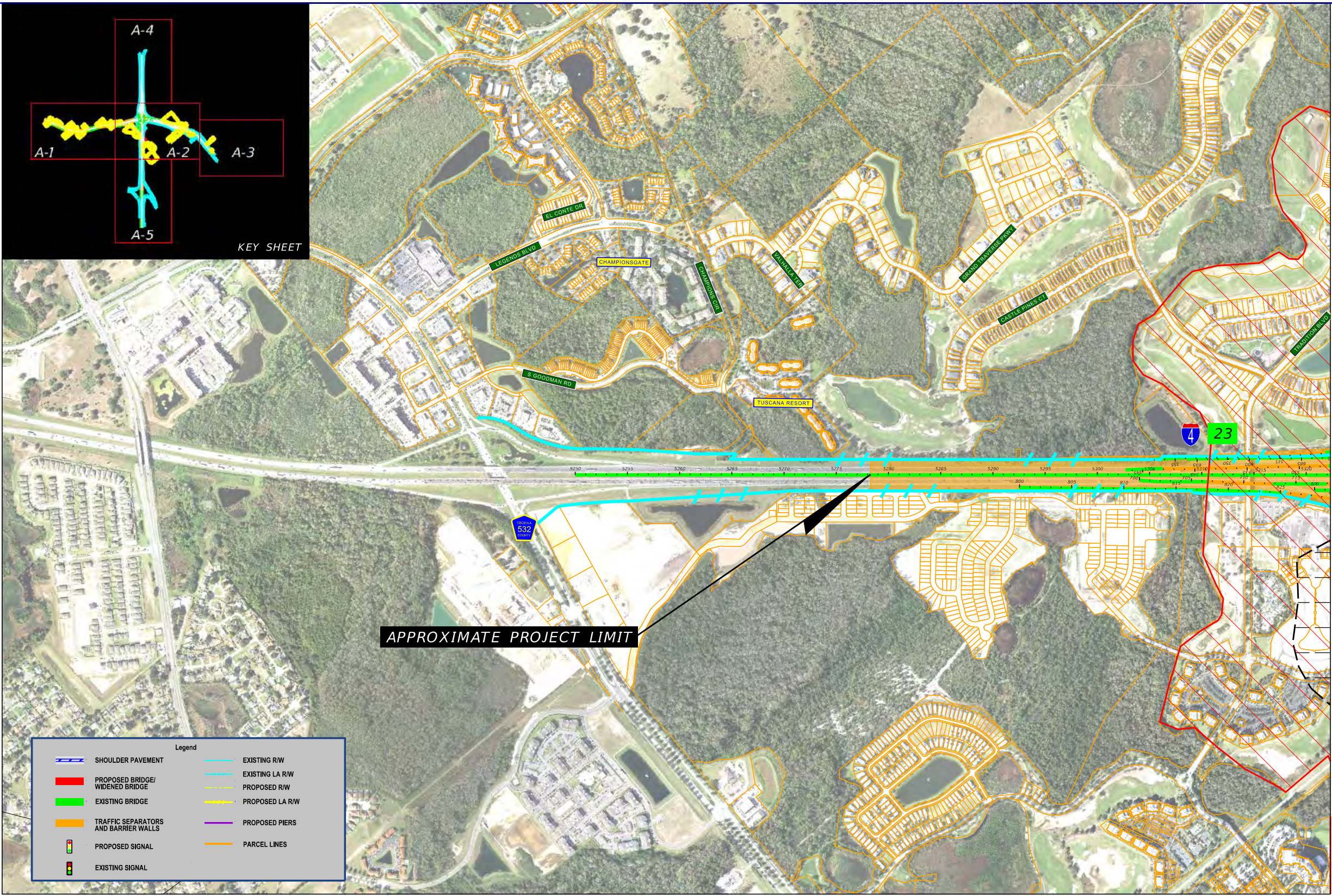
TIERRA PROJECT NO.: 6511-20-202-001E

TIERRA, INC.
 7351 TEMPLE TERRACE HIGHWAY
 TAMPA, FLORIDA 33637

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OSCEOLA POLK	446581-1-22-01

**POINCIANA PARKWAY
 EXTENSION CONNECTOR
 PD&E STUDY**



SHEET NO.
 A-3



 SITE 1 - GROVES/CROPS - LOW RISK RATING

POTENTIAL CONTAMINATION & DRAINAGE SITES MAP ALTERNATIVE 2

SOURCE: FDOT SURVEY AND MAPPING DATED 2020

 LOW/NO RATED SITES
 HIGH/MEDIUM RATED SITES

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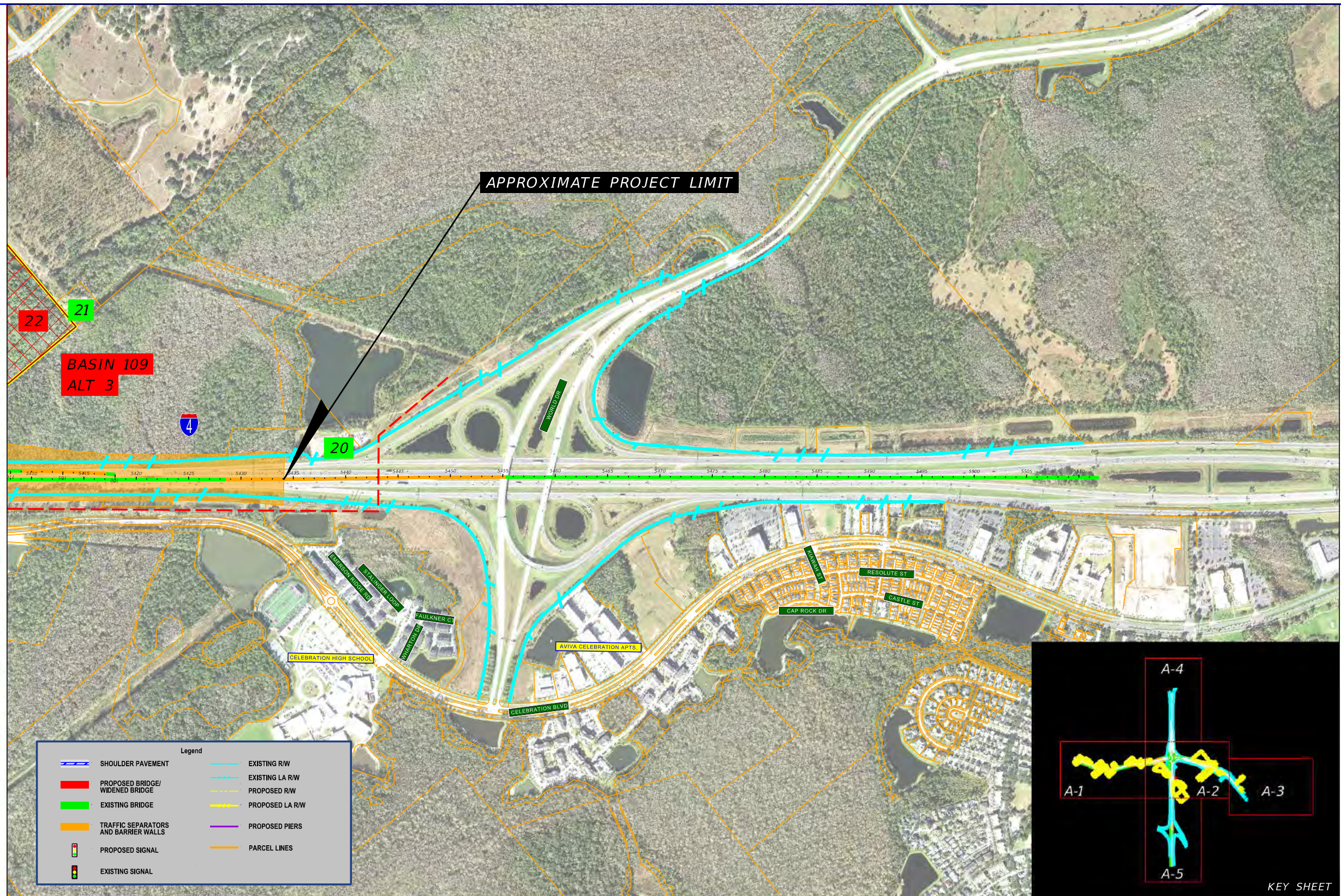
REVISIONS	
DATE	DESCRIPTION

TIERRA, INC.
 7351 TEMPLE TERRACE HIGHWAY
 TAMPA, FLORIDA 33637

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OSCEOLA POLK	446581-1-22-01

**POINCIANA PARKWAY
 EXTENSION CONNECTOR
 PD&E STUDY**

SHEET NO.
 A-4



POTENTIAL CONTAMINATION & DRAINAGE SITES MAP ALTERNATIVE 2

- SITE 2 - CENTRAL FLORIDA PIPELINE - LOW RISK RATING
- SITE 22 - BEST DIVERSIFIED P&D LANDFILL - MEDIUM RISK RATING

SOURCE: FDOT SURVEY AND MAPPING DATED 2020

- LOW/NO RATED SITES
- HIGH/MEDIUM RATED SITES

2/7/2023 8:32:06 AM bgarcia J:\6511\2020 Files\6511-20-202 Western Bellway and Poinciana Ext PD&E FTE\001_Poinciana_446581-1\ORD\6511-20-202-001\geotecnical\WABORRD_ENV_POTCONTAM.DWG

REVISIONS	
DATE	DESCRIPTION

TIERRA, INC.
 7351 TEMPLE TERRACE HIGHWAY
 TAMPA, FLORIDA 33637

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	OSCEOLA POLK	446581-1-22-01

**POINCIANA PARKWAY
 EXTENSION CONNECTOR
 PD&E STUDY**

SHEET
 NO.
 A-5

APPENDIX B HISTORICAL AERIAL PHOTOGRAPHS

Historical Aerial Photograph Report

Subject Property:

Poinciana Parkway Extension-Mainline & Pond Sites
Osceola/Polk Counties, Florida

Prepared For:

Tierra Inc
7351 Temple Terrace Hwy
Tampa, FL 33637

Prepared By:



Environmental Data Management, Inc.
2840 West Bay Drive, Suite 208
Belleair Bluffs, Florida 33770

June 8, 2022



Environmental Data Management, Inc.
2840 West Bay Drive, Suite 208
Belleair Bluffs, Florida 33770
(727) 586-1700
<http://www.edm-net.com>

June 8, 2022

Chris Garth
Tierra Inc
7351 Temple Terrace Hwy
Tampa, FL 33637

Subject: **Historical Aerial Photos-- EDM Project #: 26147**
Client Project# 6511-20-202-001E

Dear Mr. Garth:

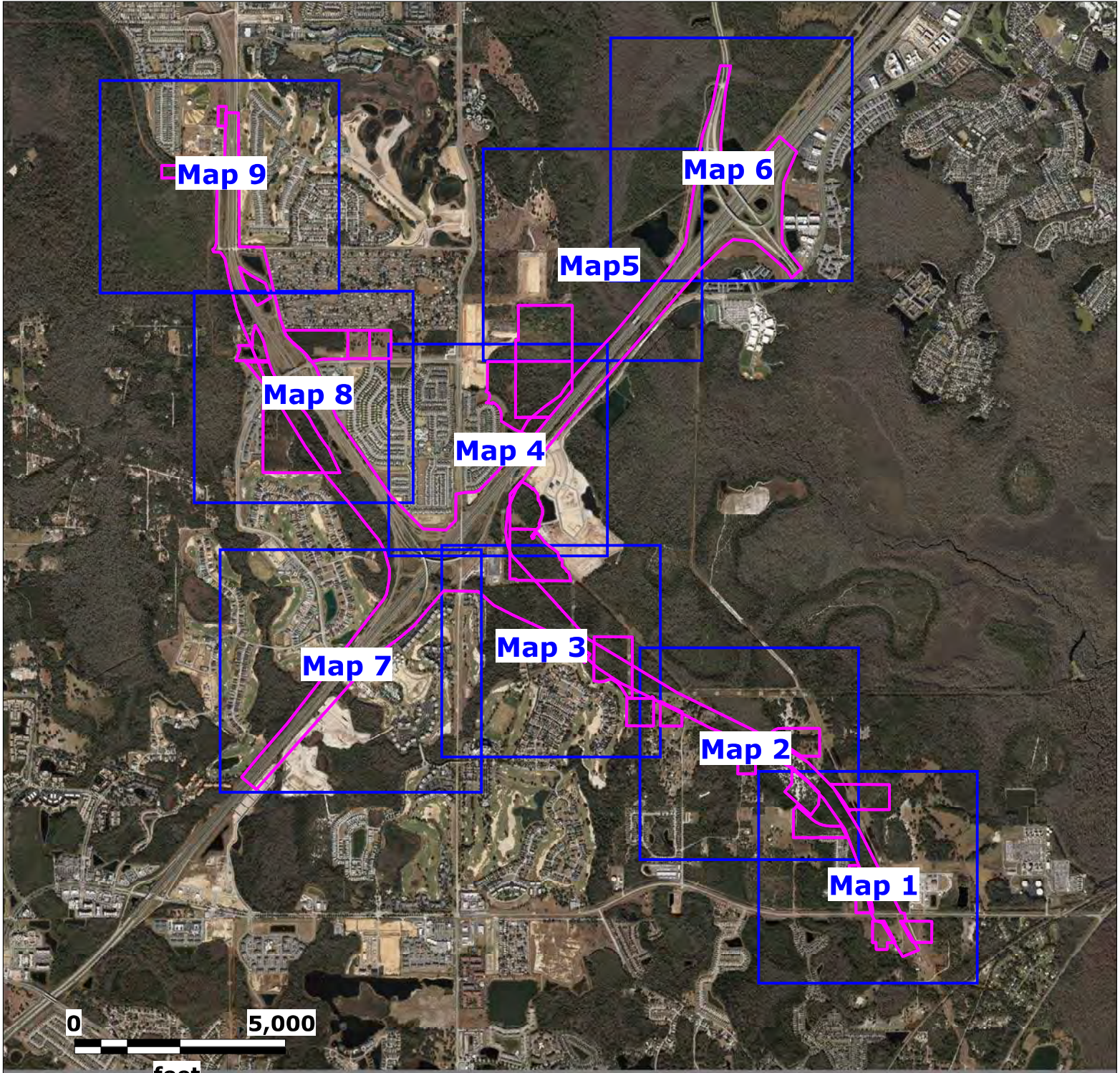
Thank you for choosing Environmental Data Management, Inc. The following report contains a series of Historical Aerial Photographic images for the following location:

Poinciana Parkway Extension-Mainline & Pond Sites
Osceola/Polk Counties, Florida

These images were selected to provide you with an aerial photographic record of this location at approximate ten year intervals and/or one photograph per decade, where available.

Should you have any questions regarding this report or our service, please feel free to contact us. We appreciate the opportunity to be of service to you and look forward to working with you in the future.

ENVIRONMENTAL DATA MANAGEMENT, INC.



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

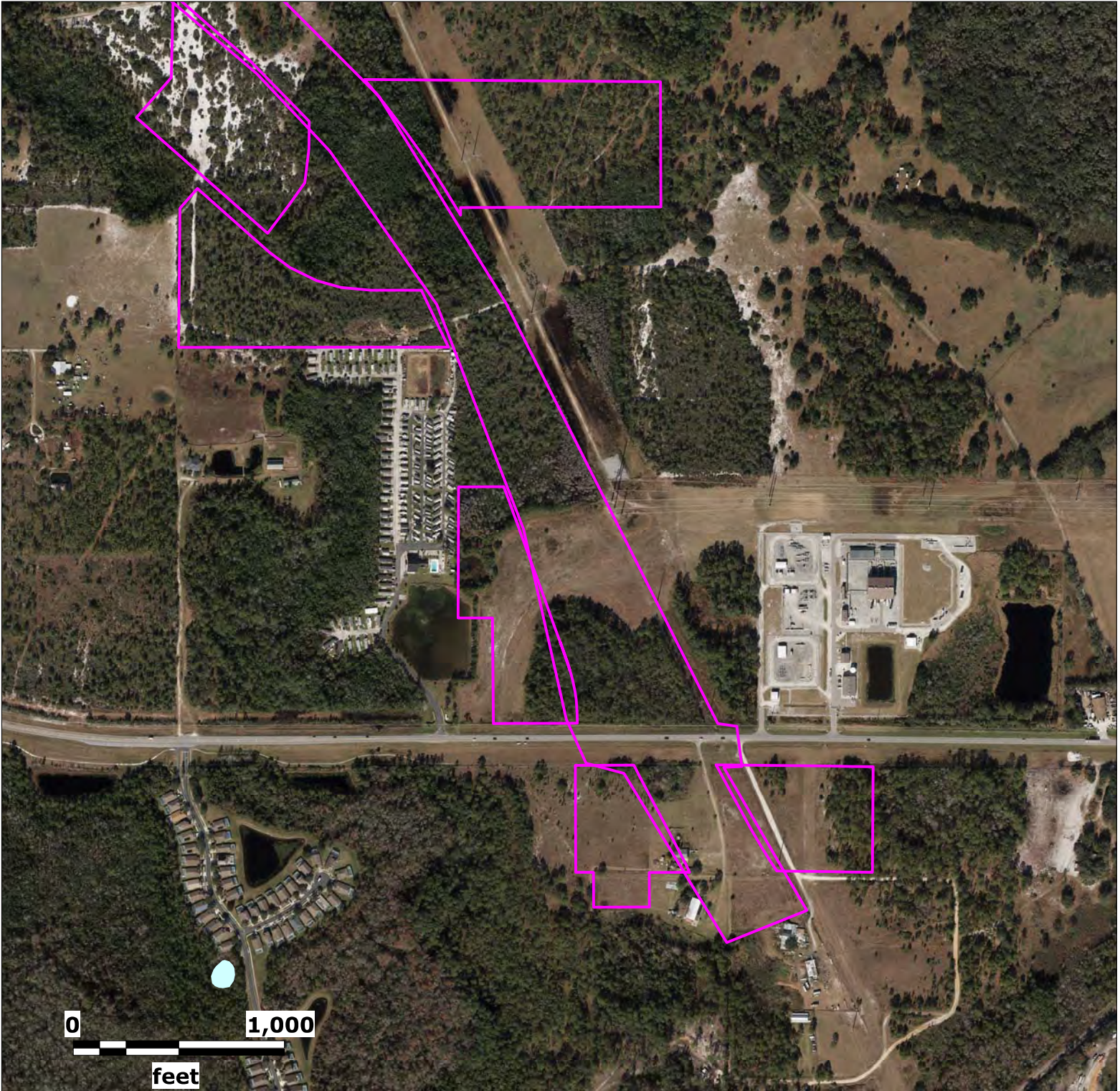
Subject Property

Poinciana Parkway Extension-
Mainline & Pond Sites
Osceola/Polk Counties, Florida

Lat (DMS): 28 18' 49.0536"
Lon (DMS): -81 34' 16.1544"

EDM Job No: 26147
June 8, 2022

 Approximate Site Location



Source: Florida Department of Transportation

Map Scale and Property Boundaries are Approximate

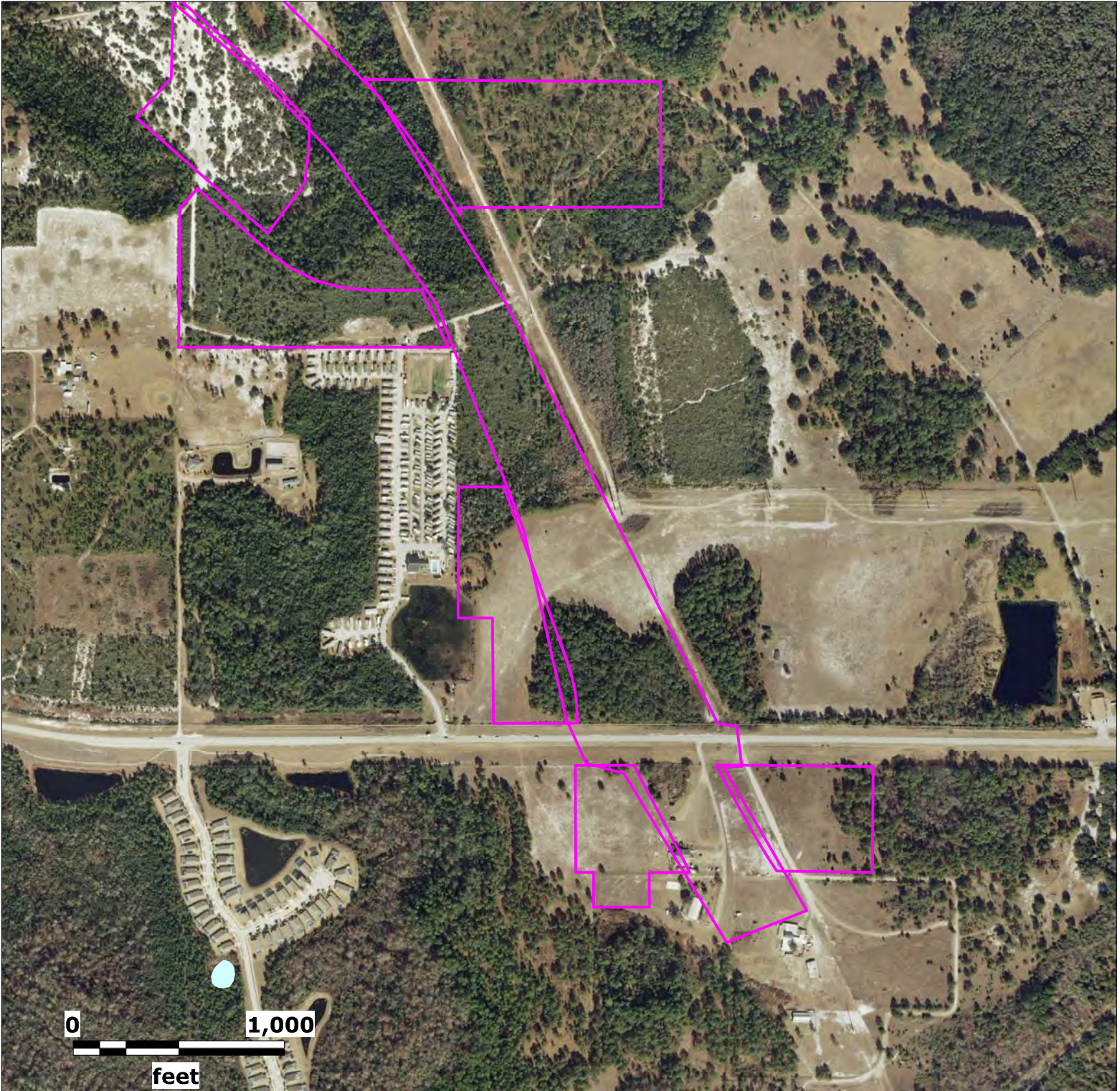
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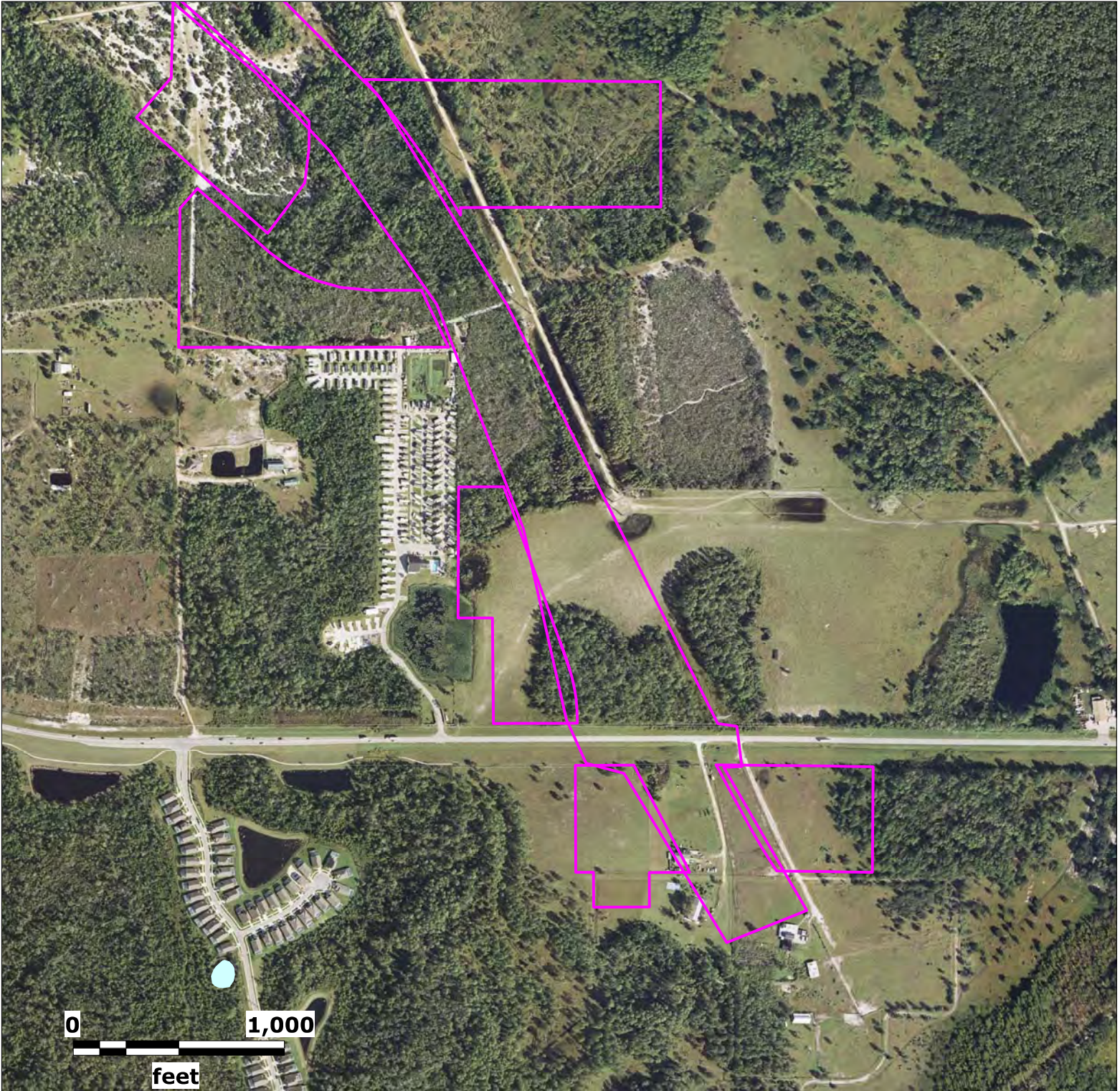
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Source: Florida Department of Transportation

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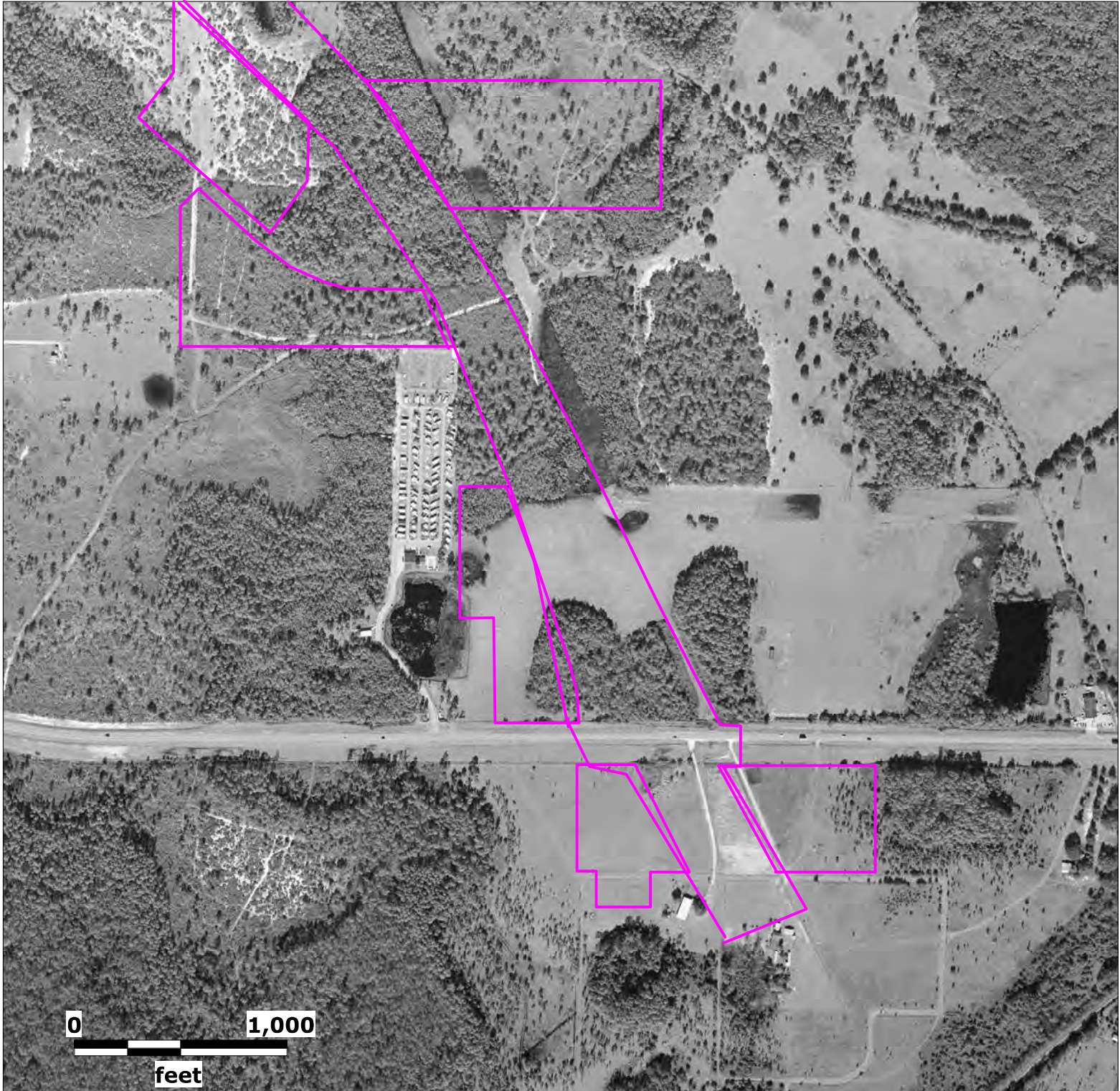
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Source: Florida Department of Transportation

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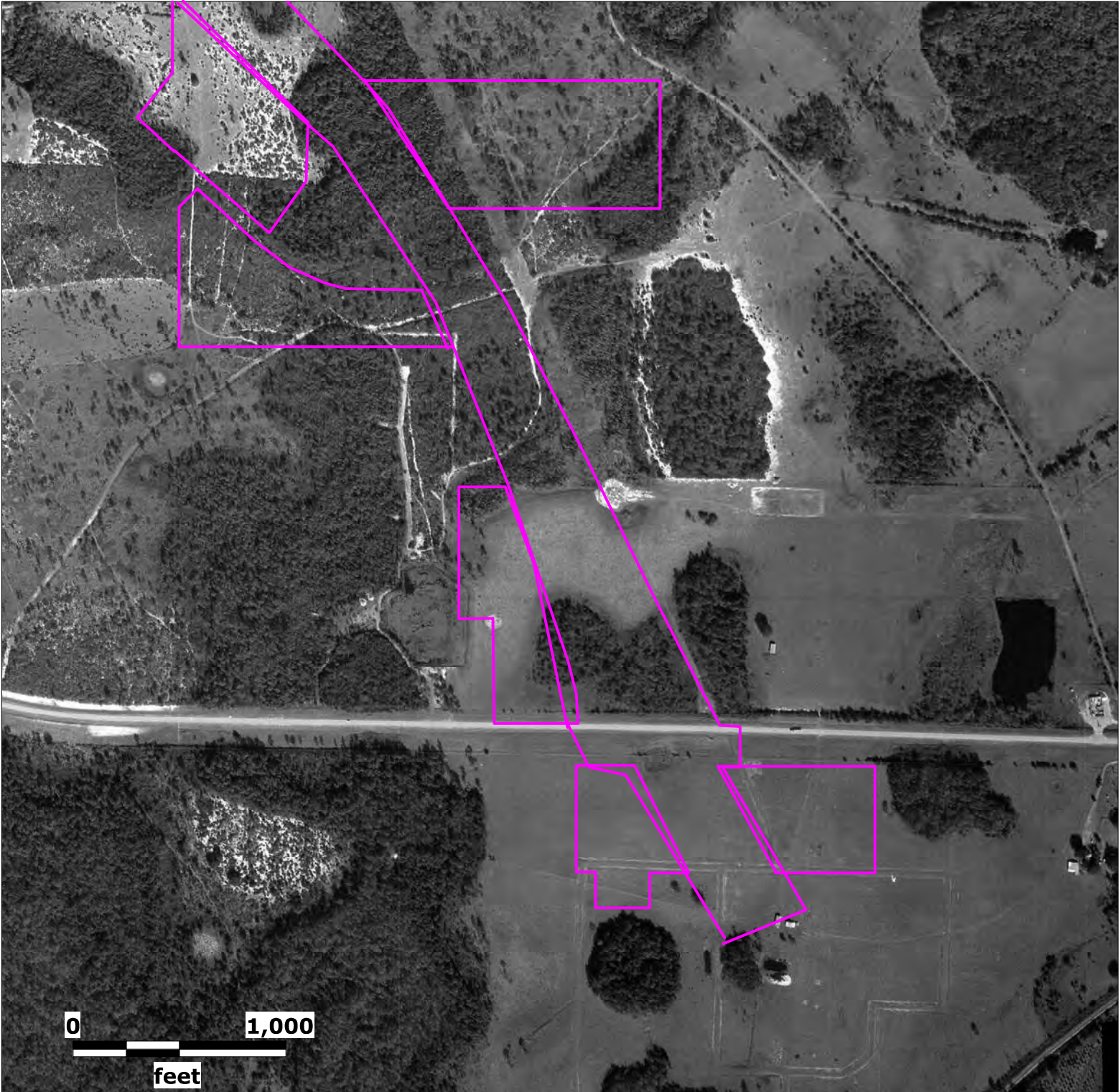
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Source: Florida Department of Transportation

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Source: University of Florida

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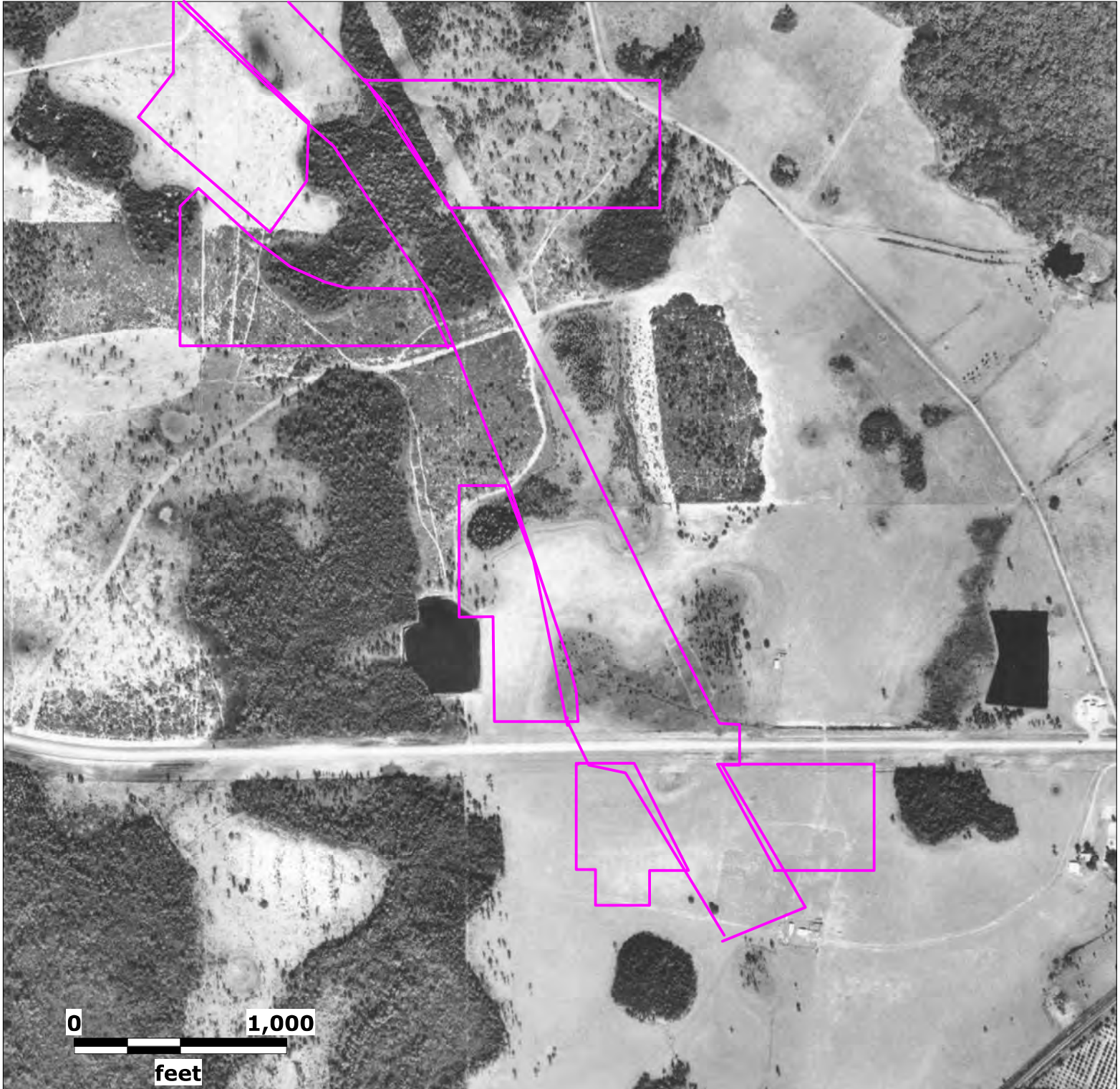
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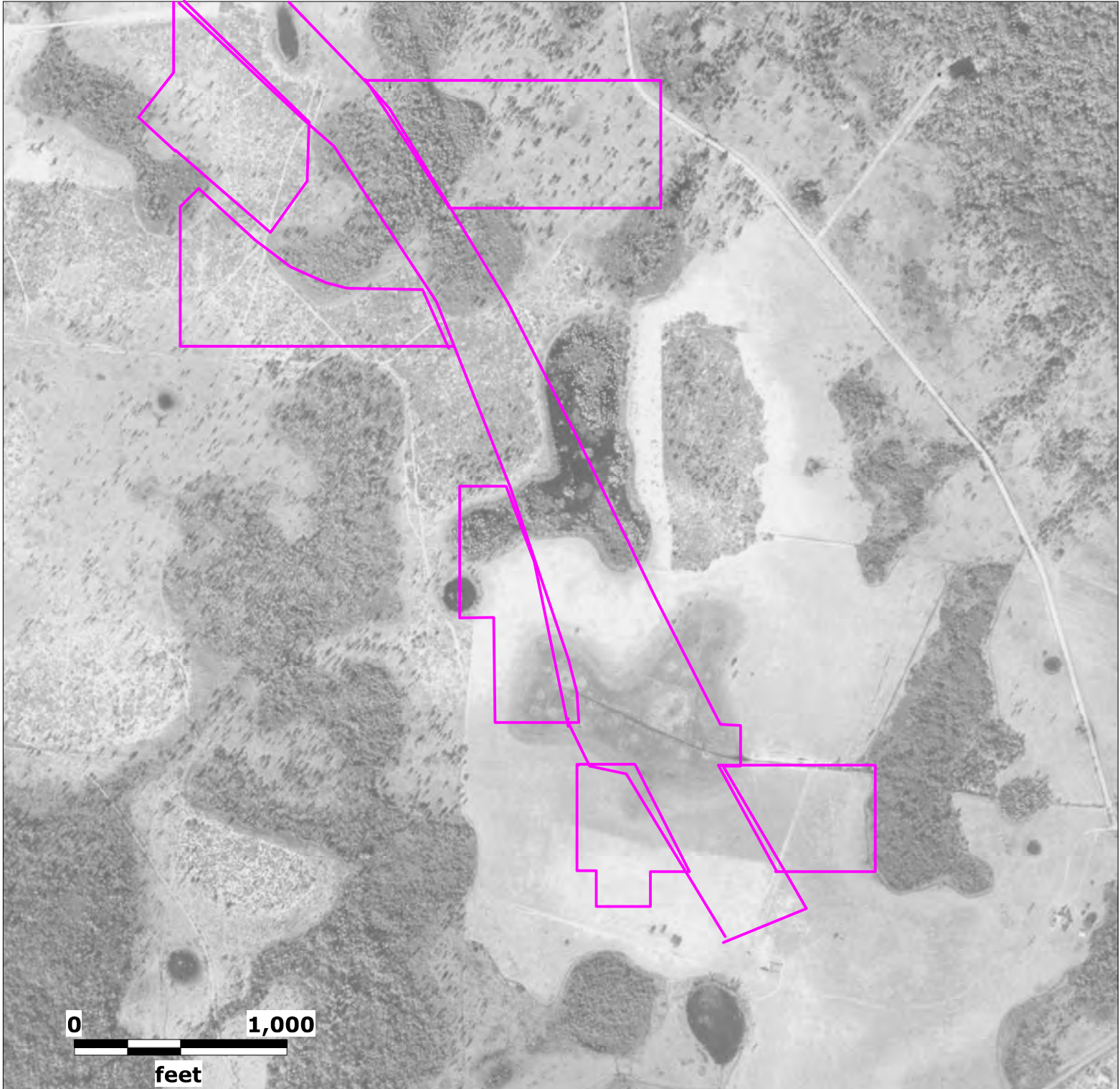
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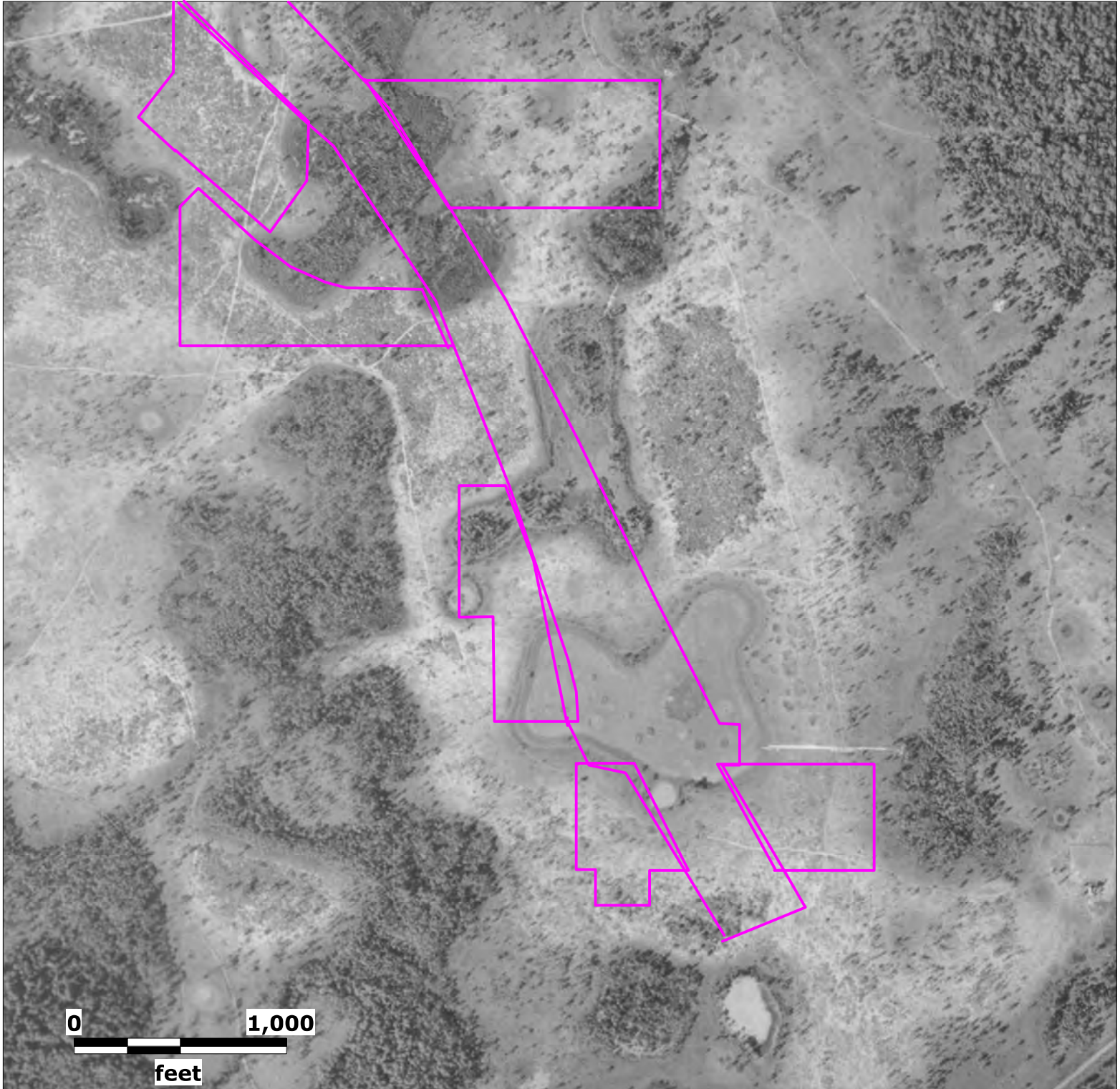
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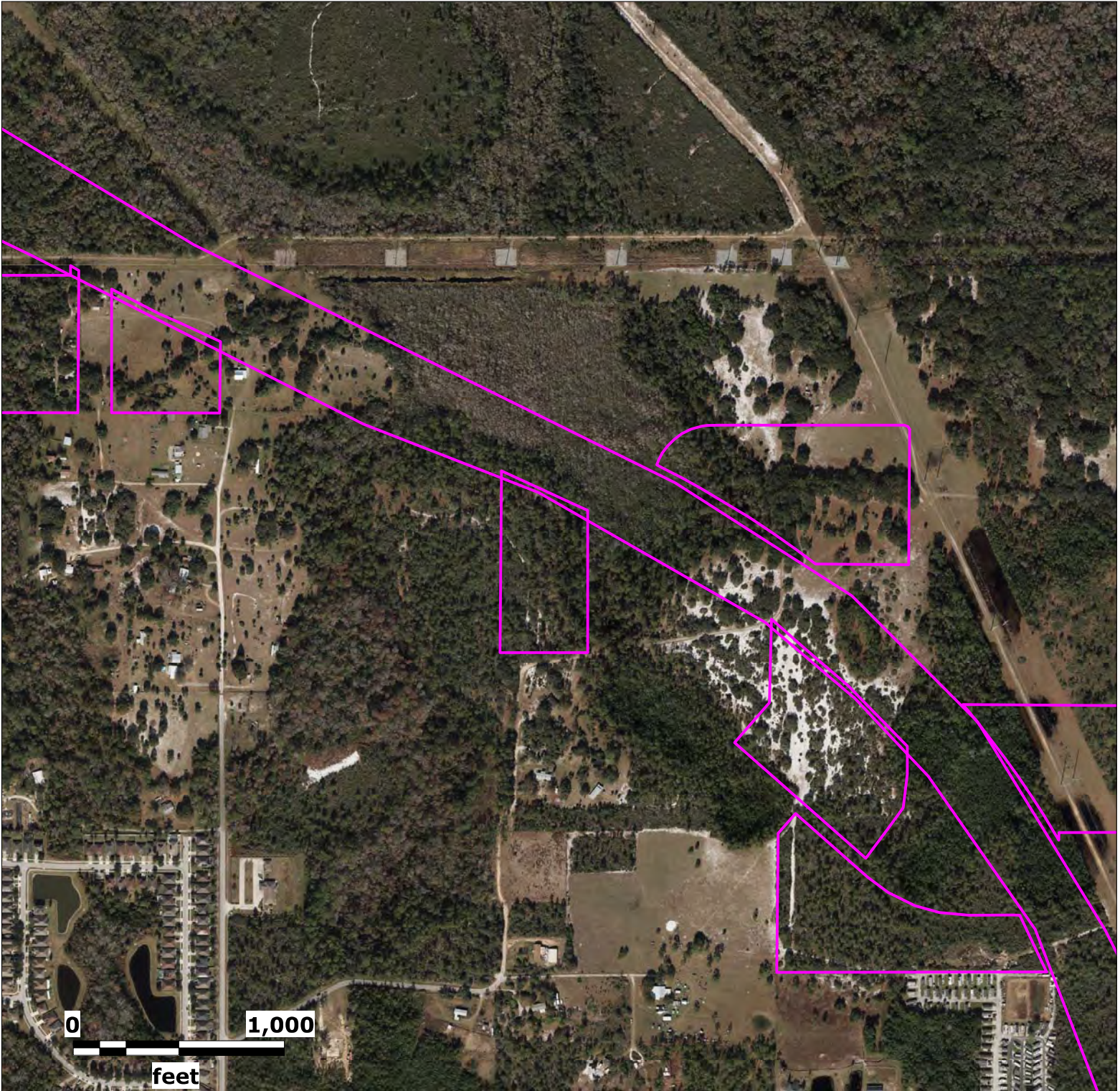
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EDM Job No: 26147
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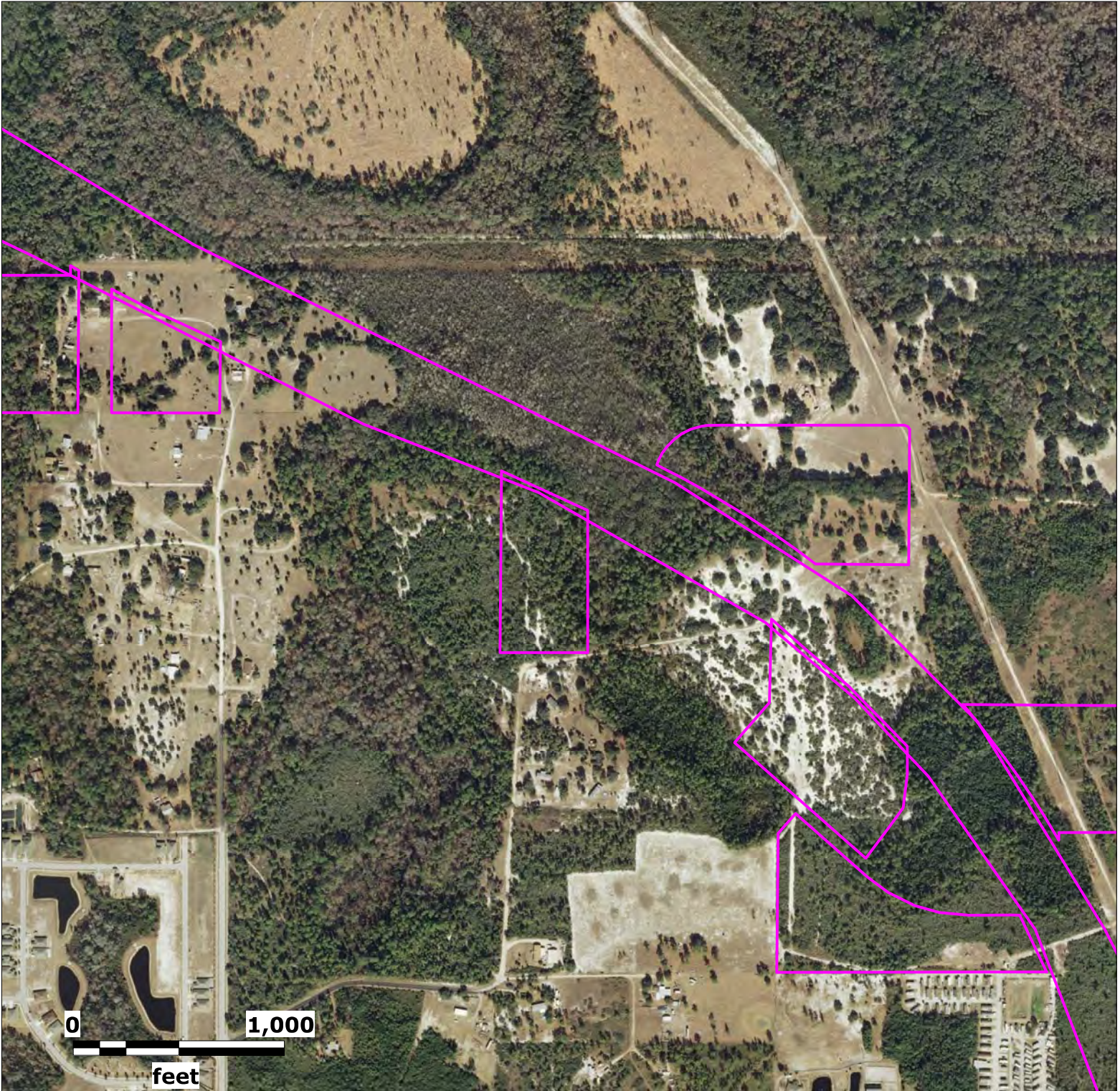
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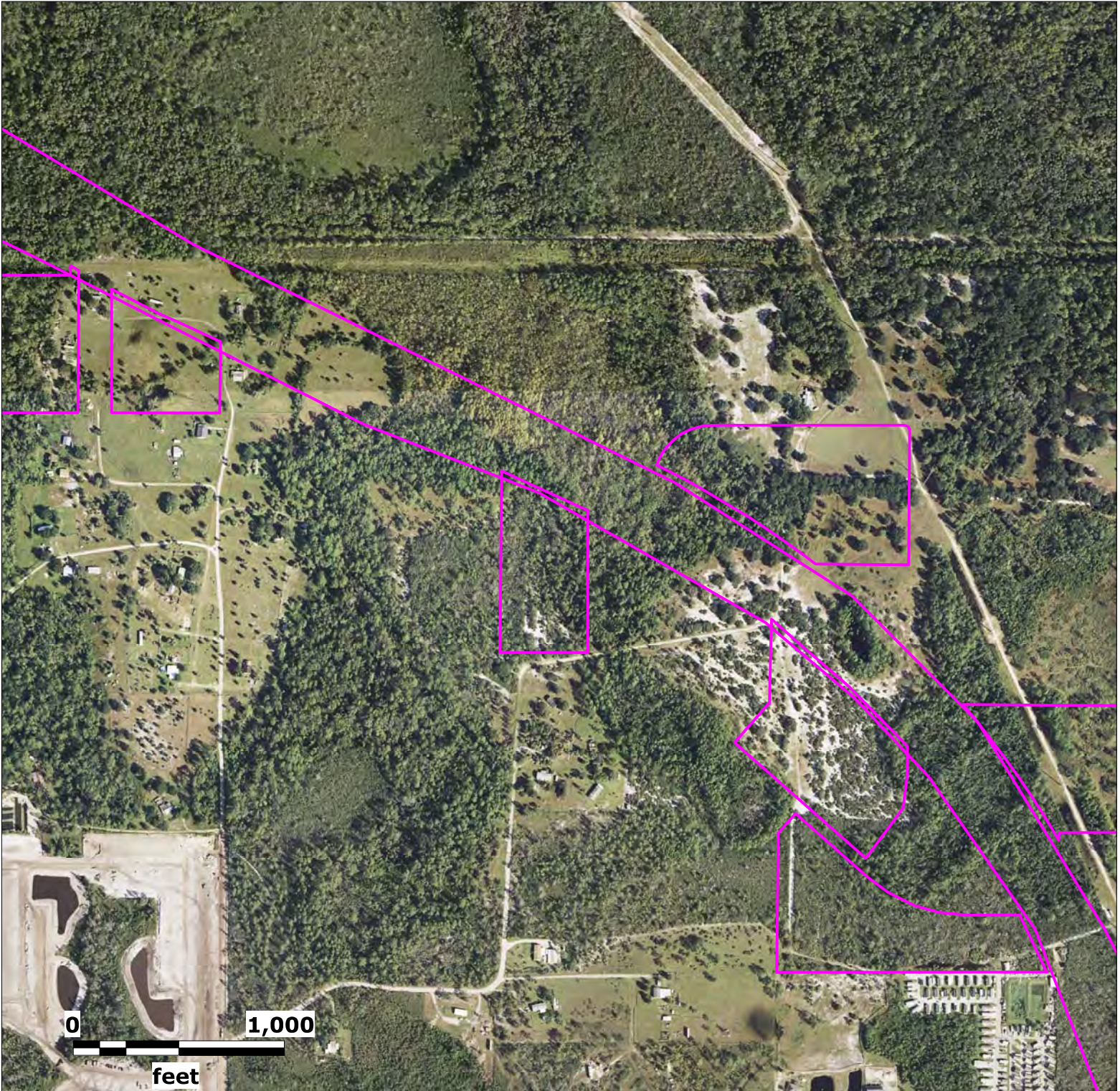
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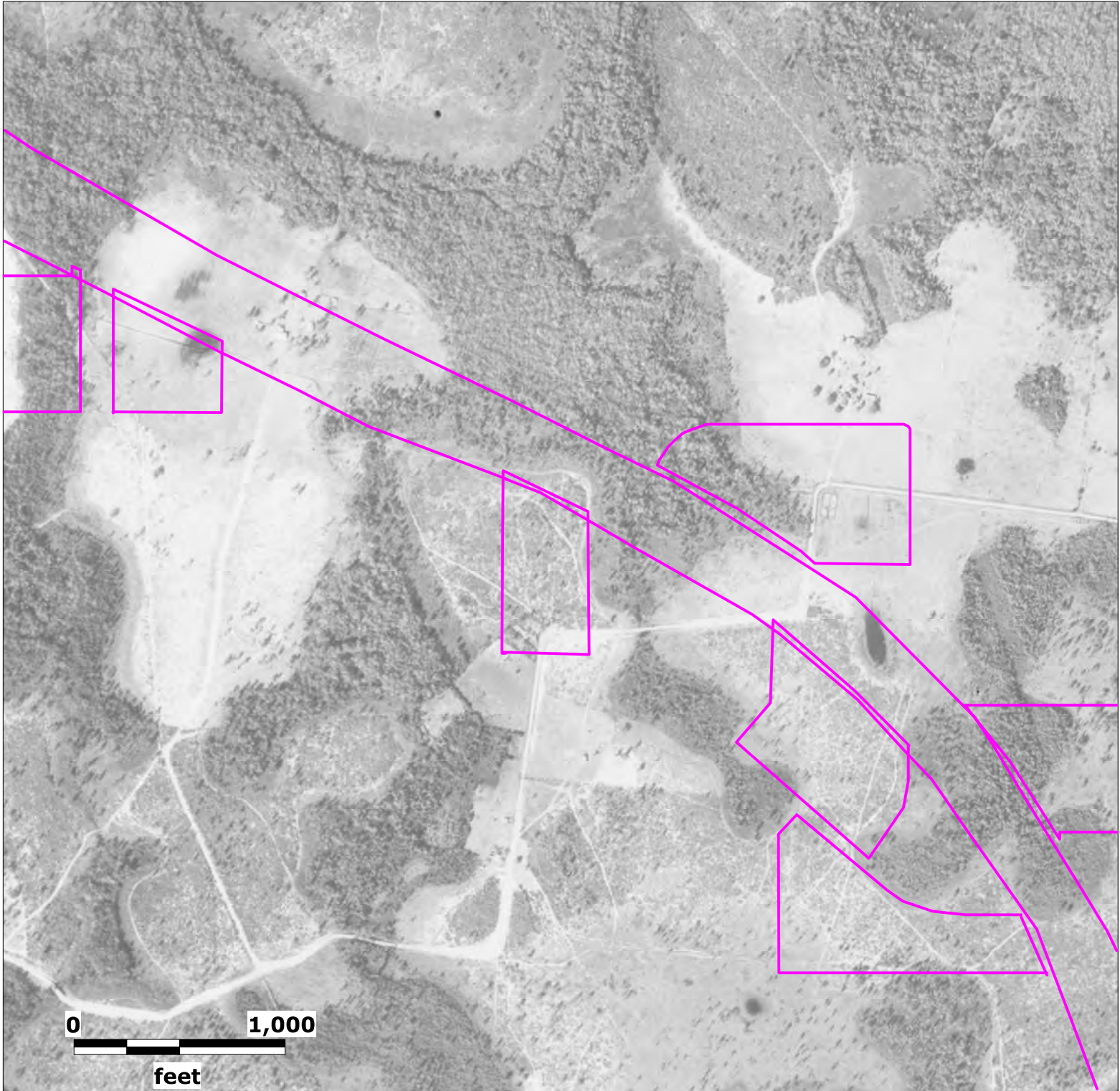
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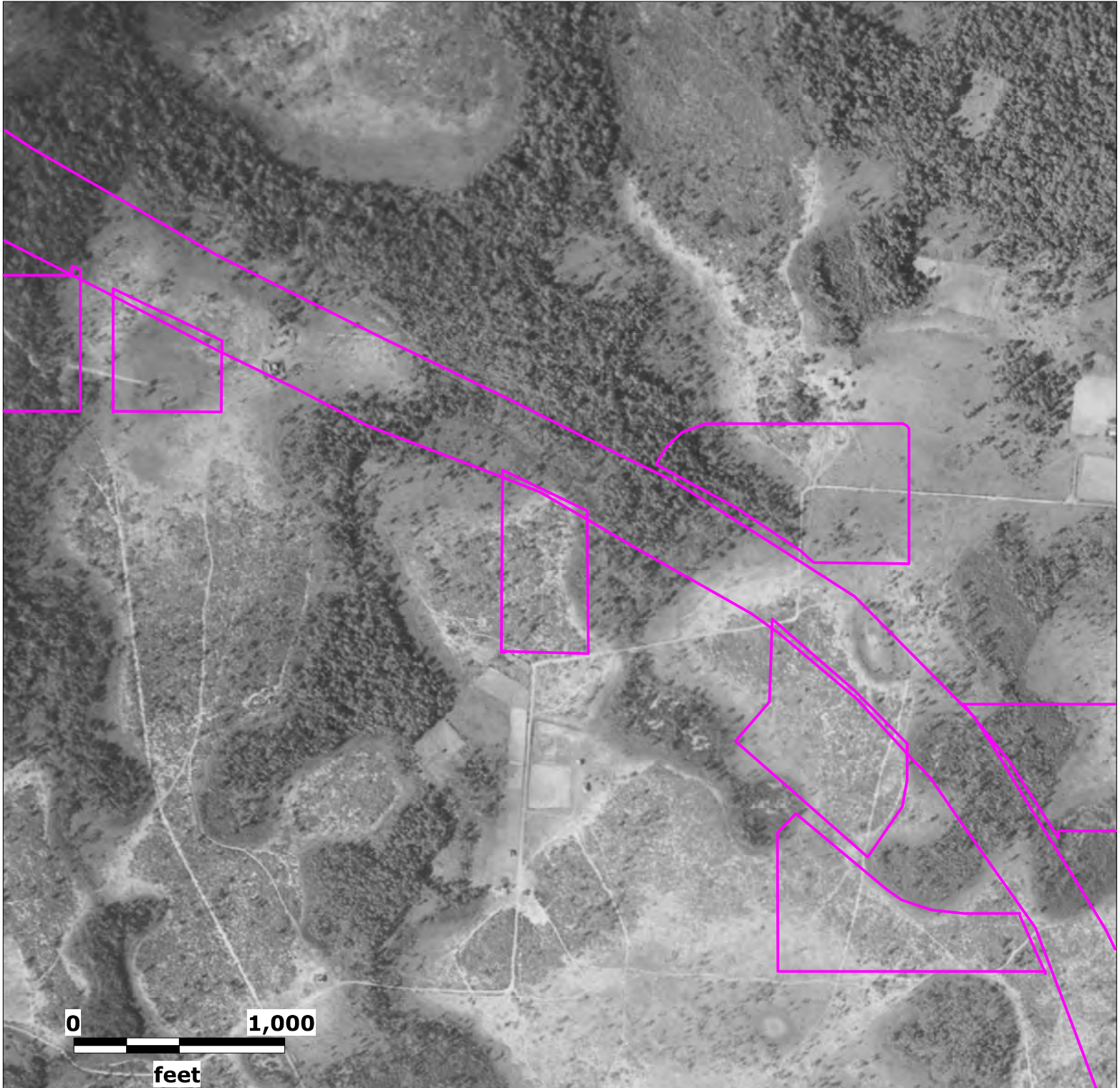
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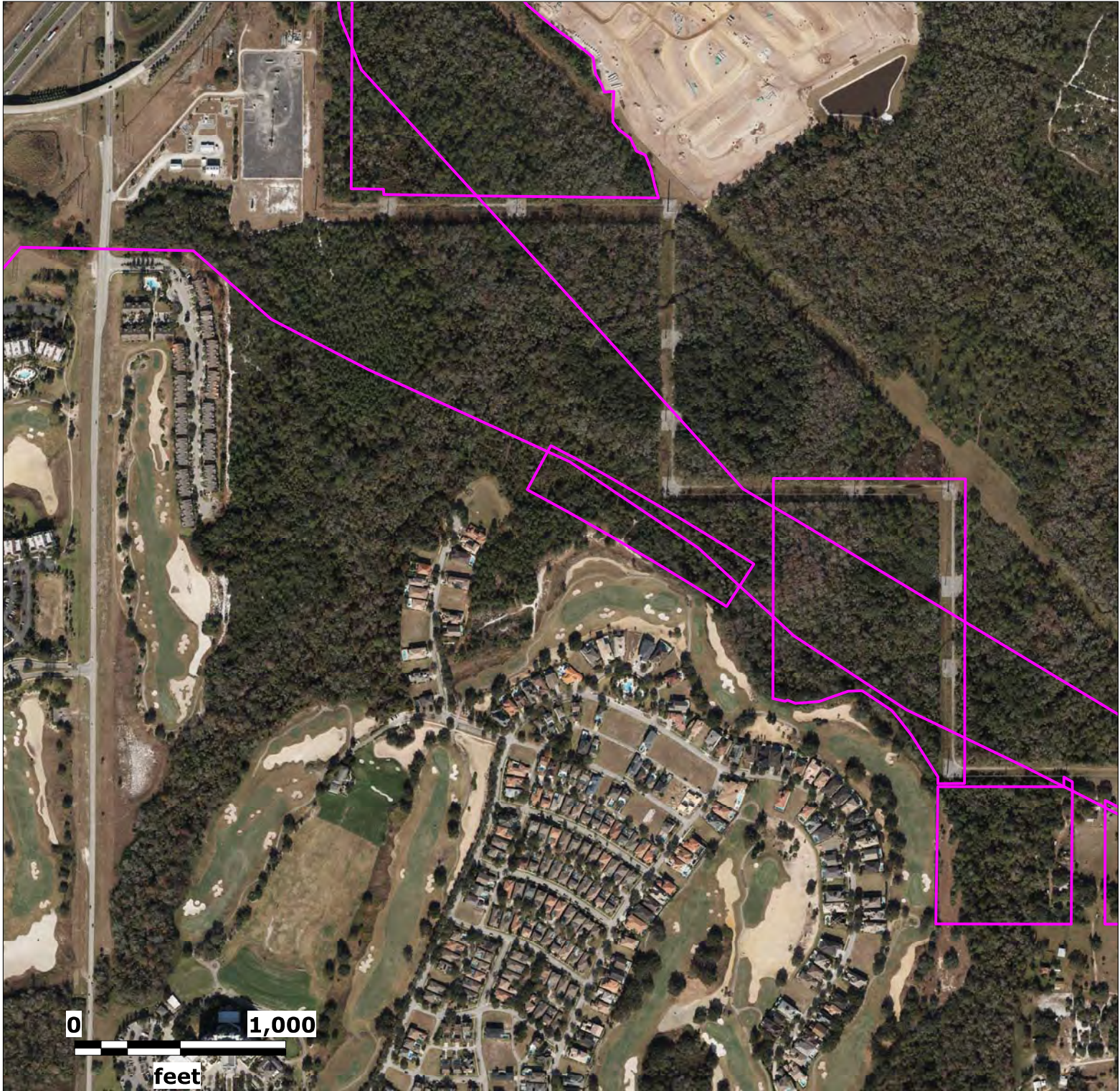
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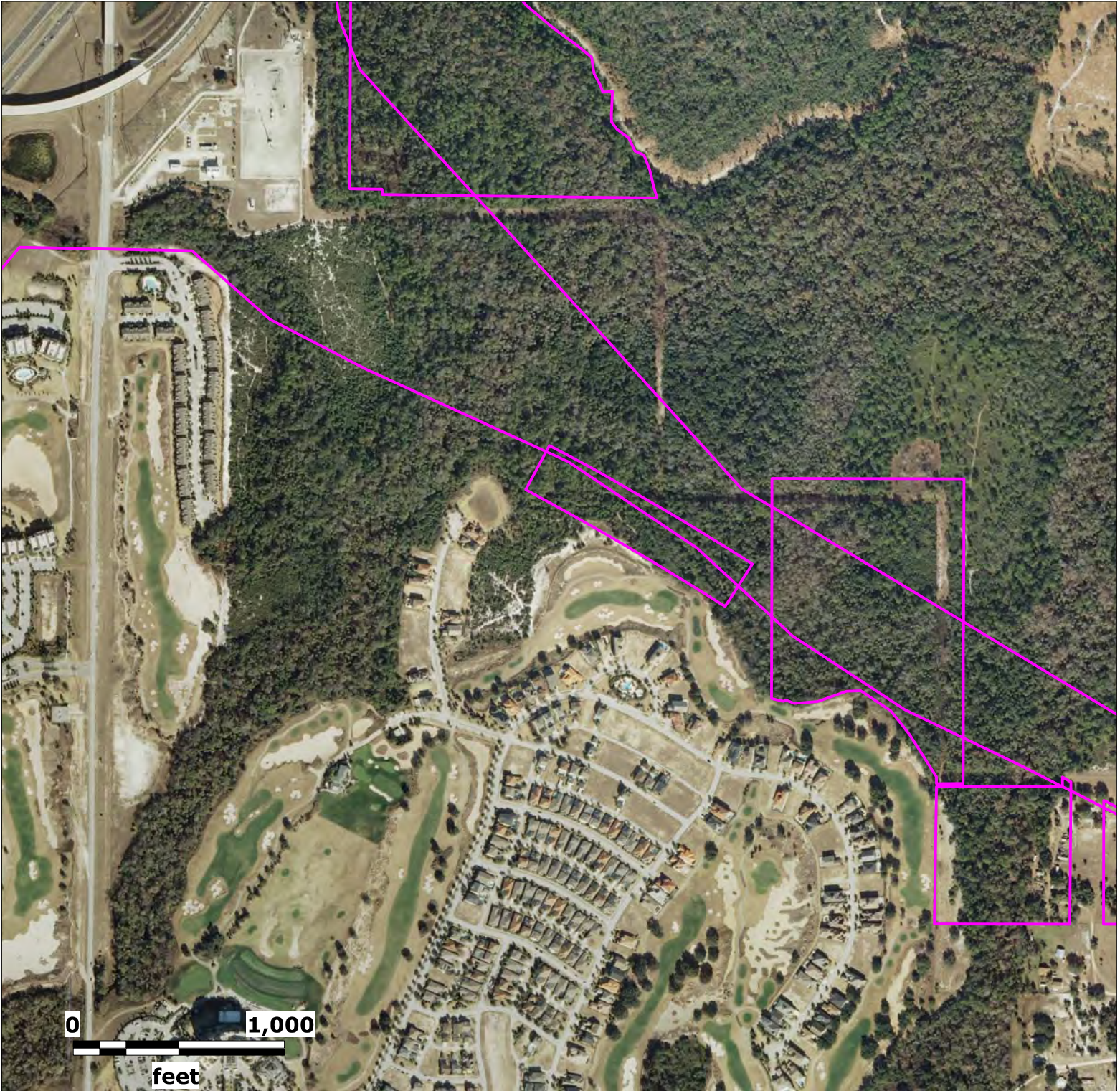
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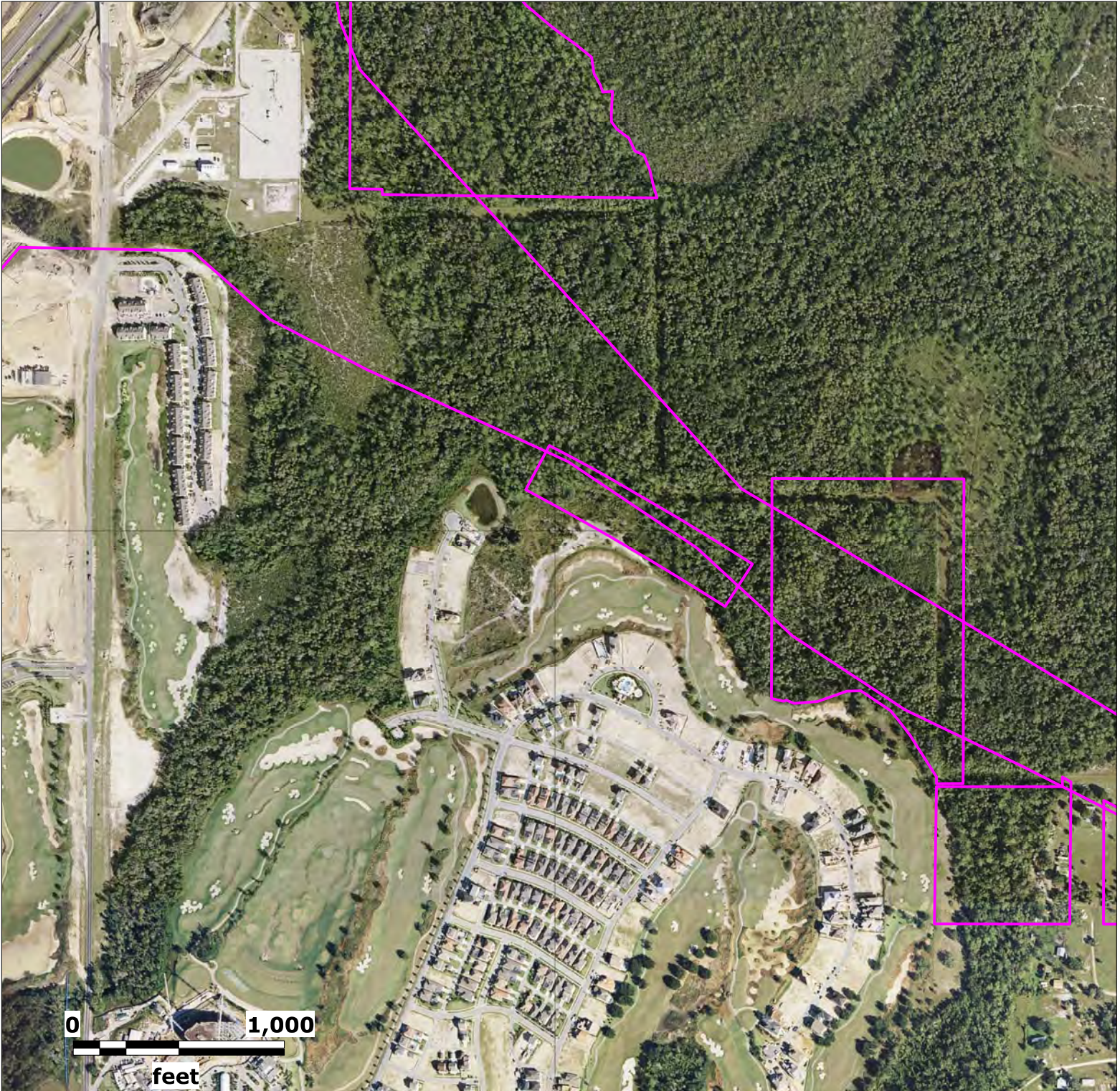
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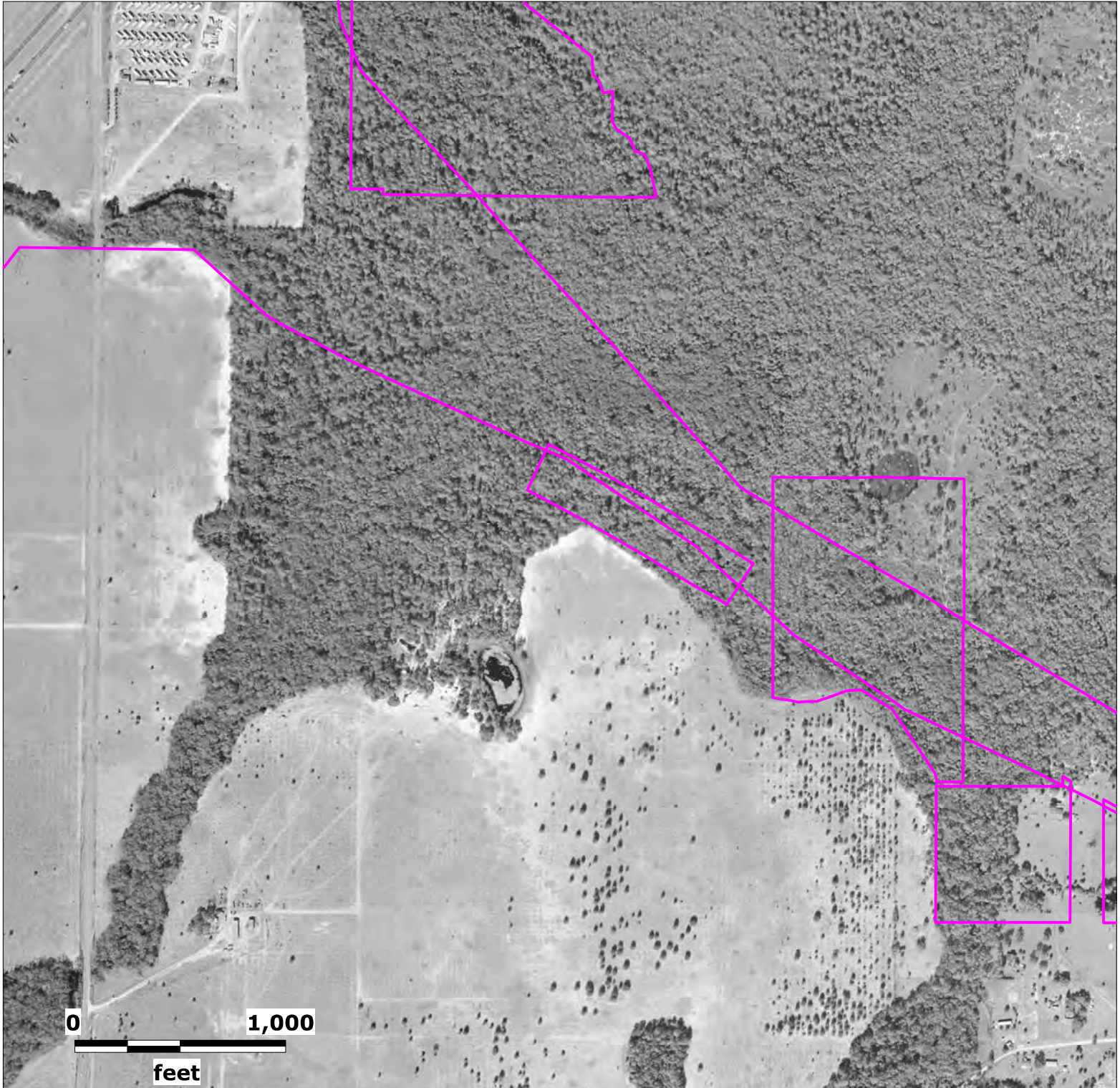
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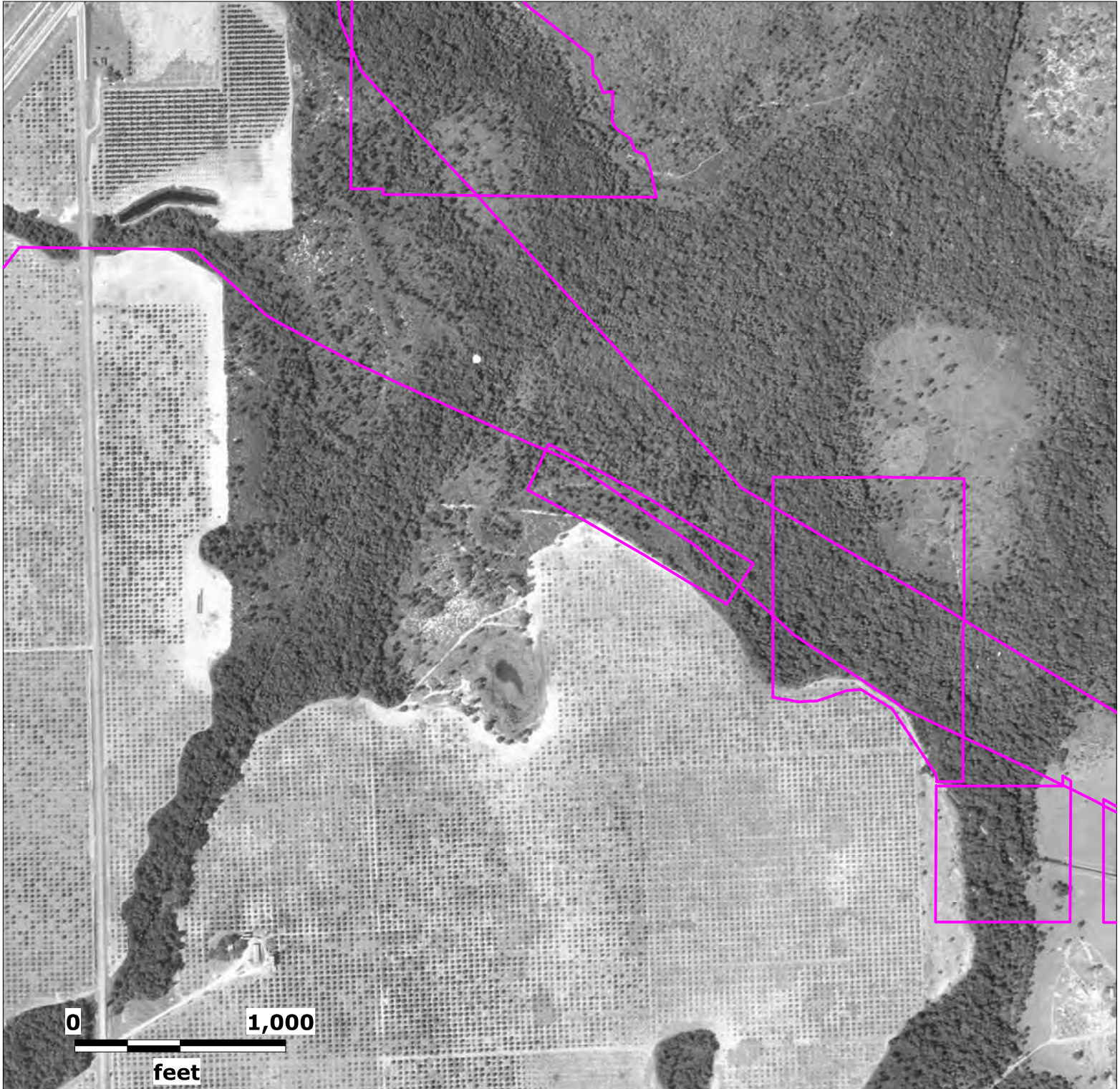
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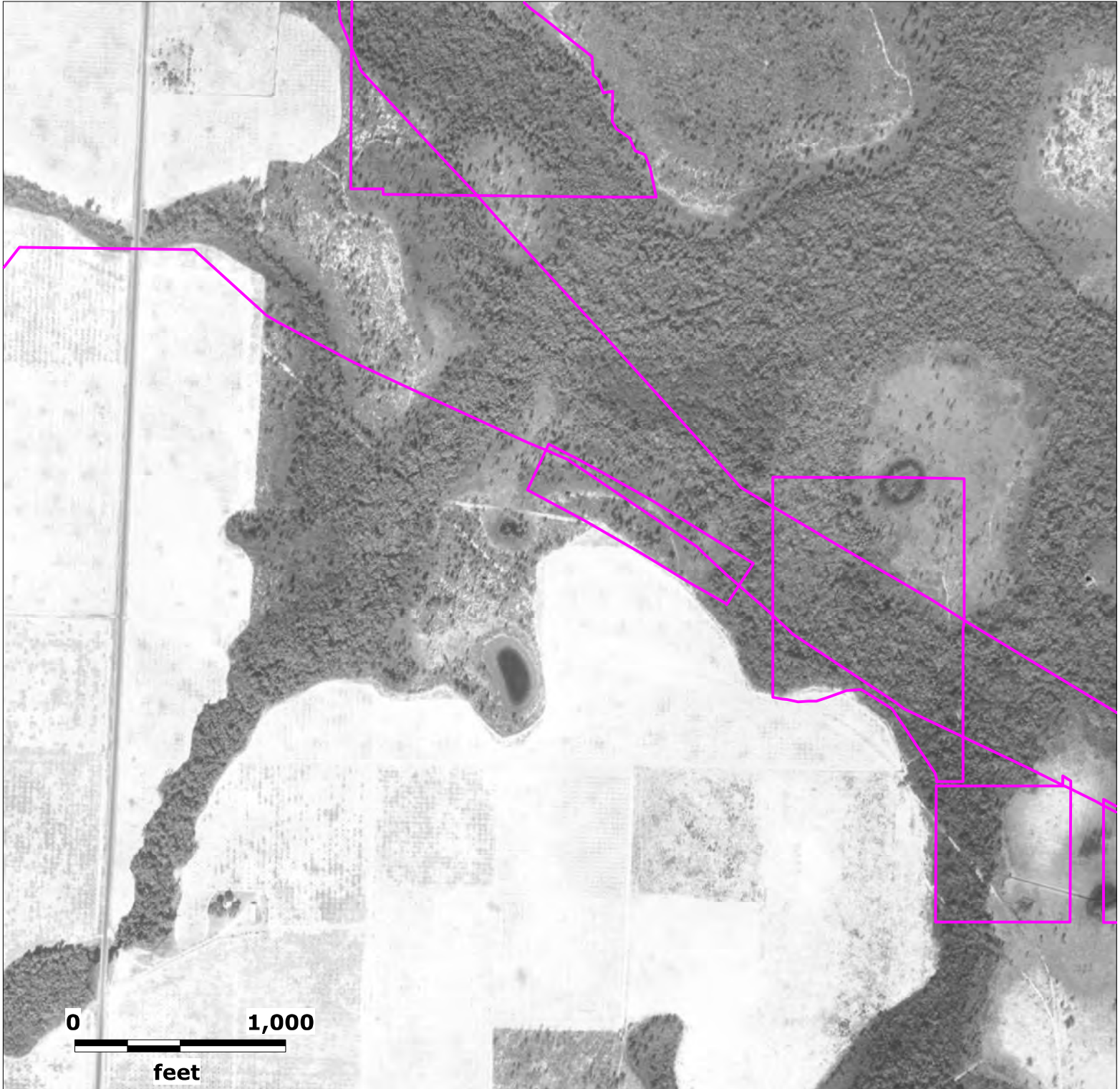
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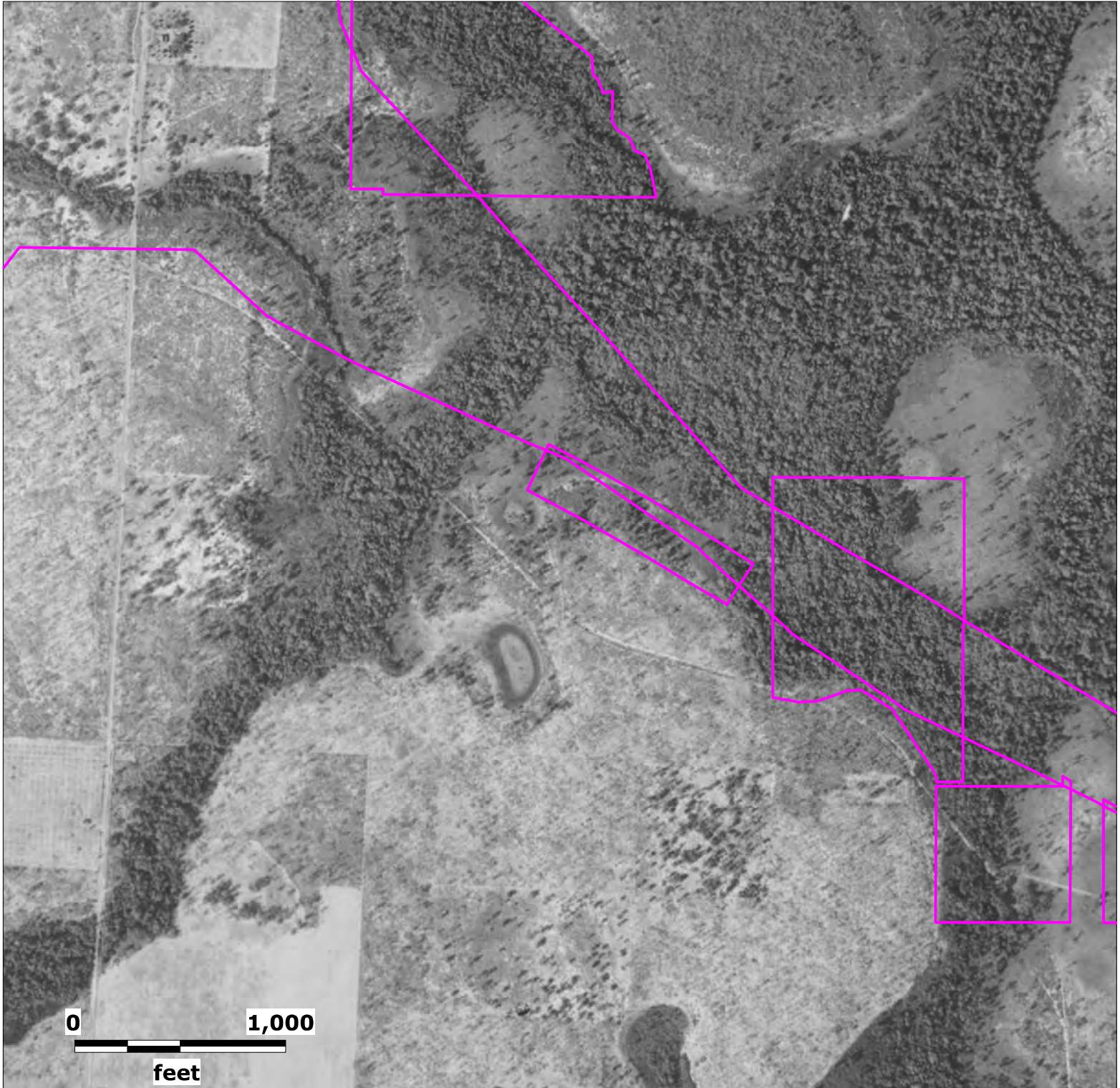
Subject Property

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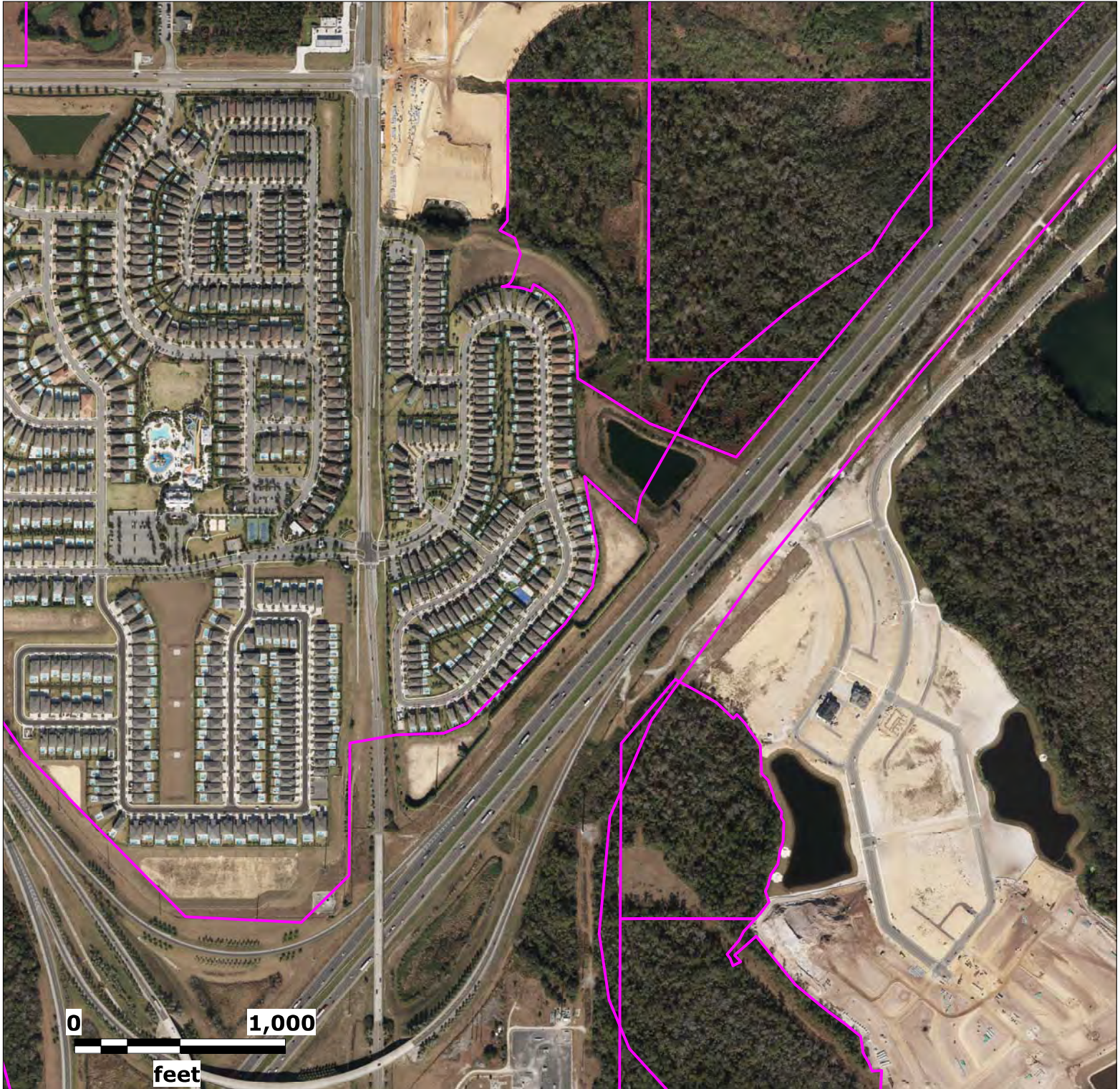
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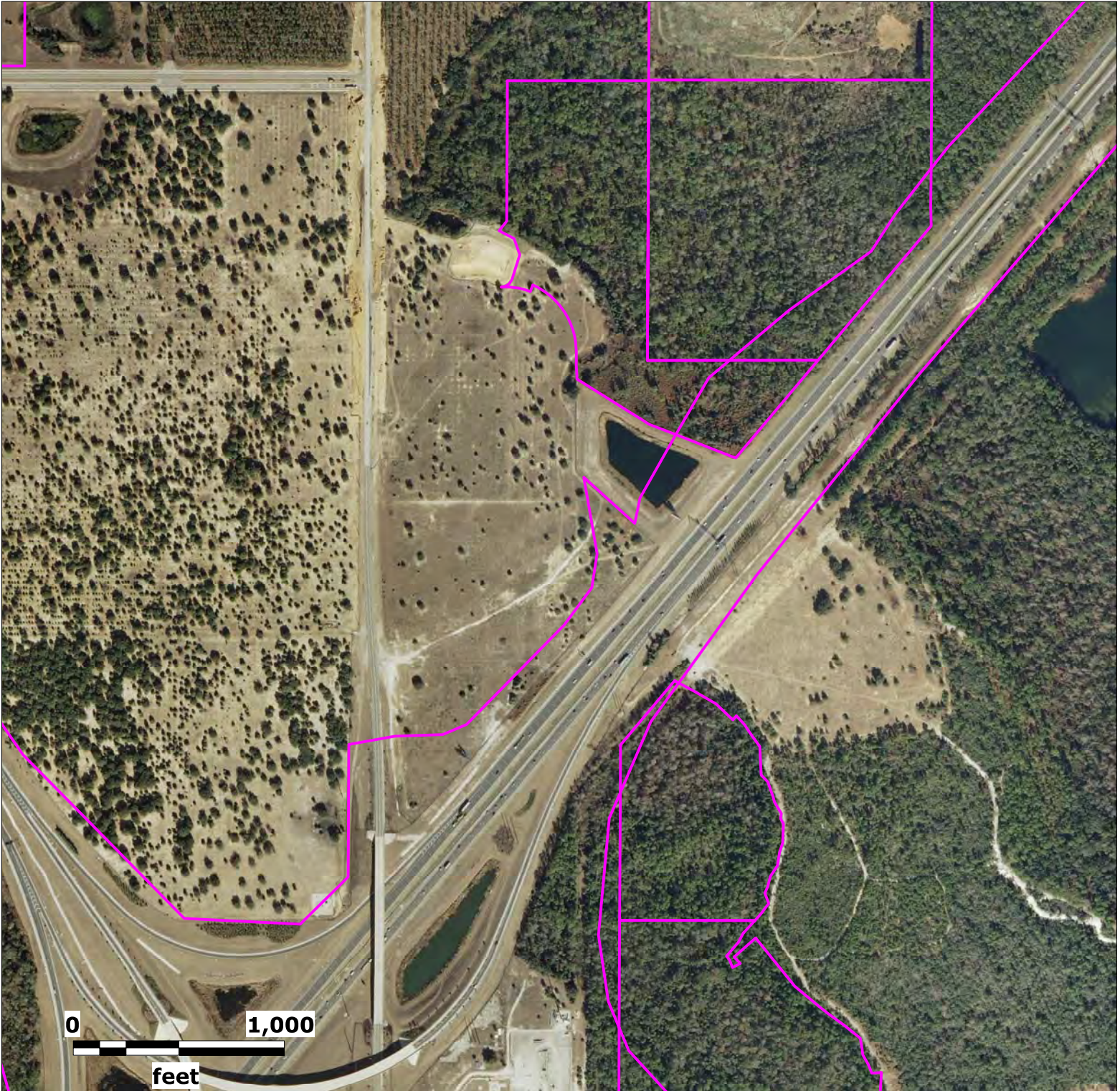
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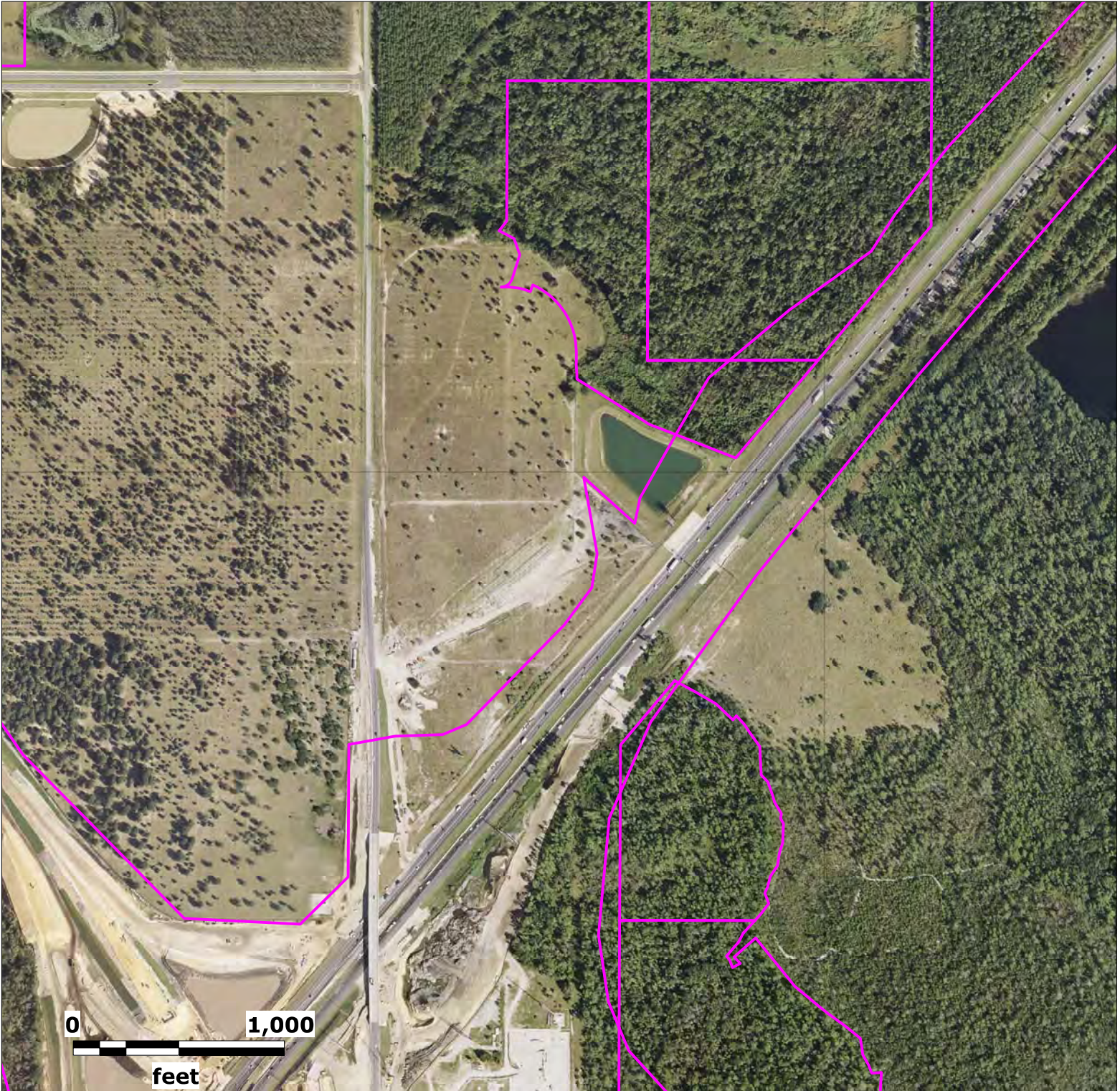
Subject Property

Poinciana Parkway Extension-
Mainline & Pond Sites
Osceola/Polk Counties, Florida

Lat (DMS): 28 18' 49.0536"
Lon (DMS): -81 34' 16.1544"

EDM Job No: 26147
June 8, 2022

 Approximate Site Location



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Map Scale and Property Boundaries are Approximate

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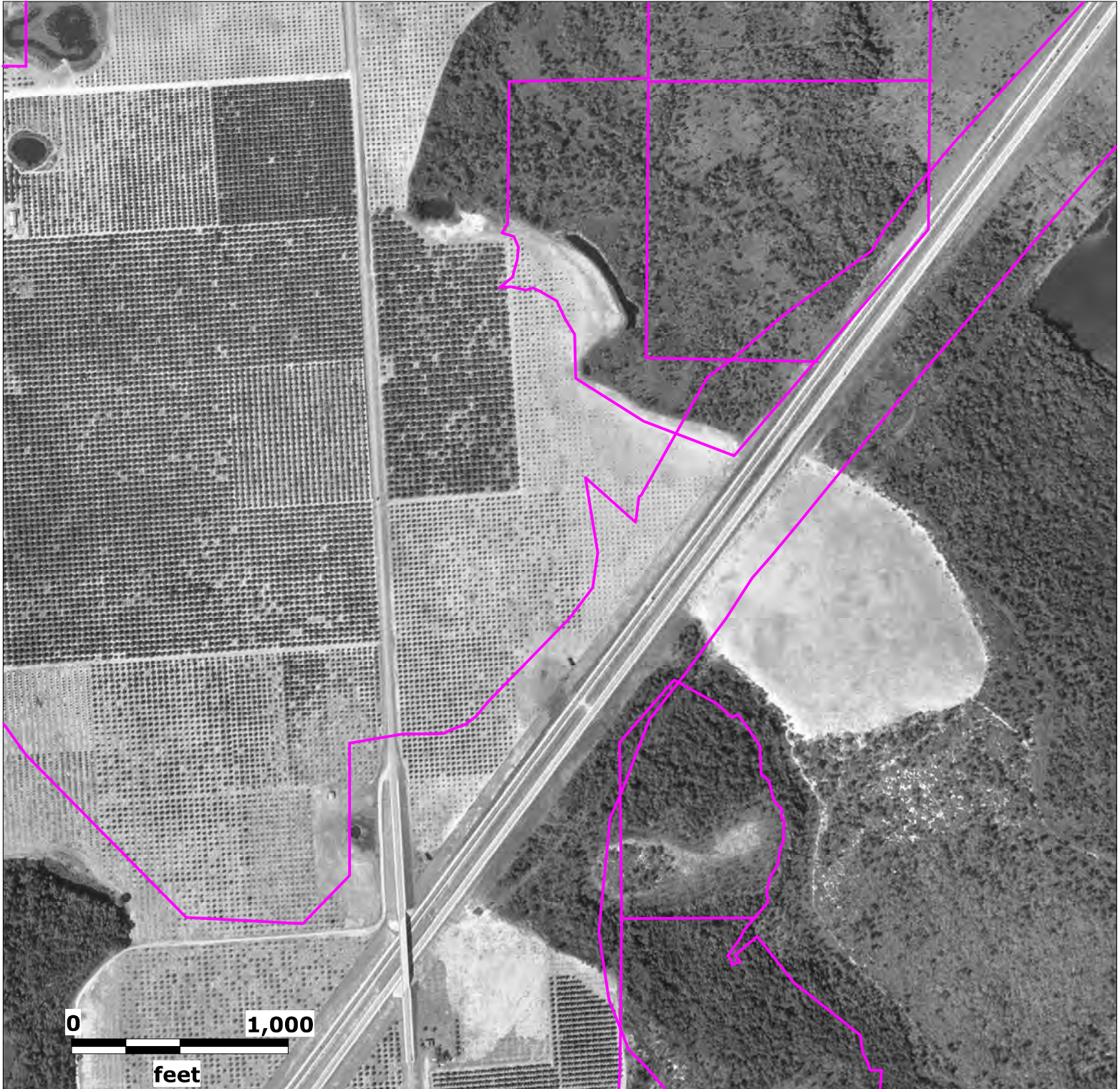
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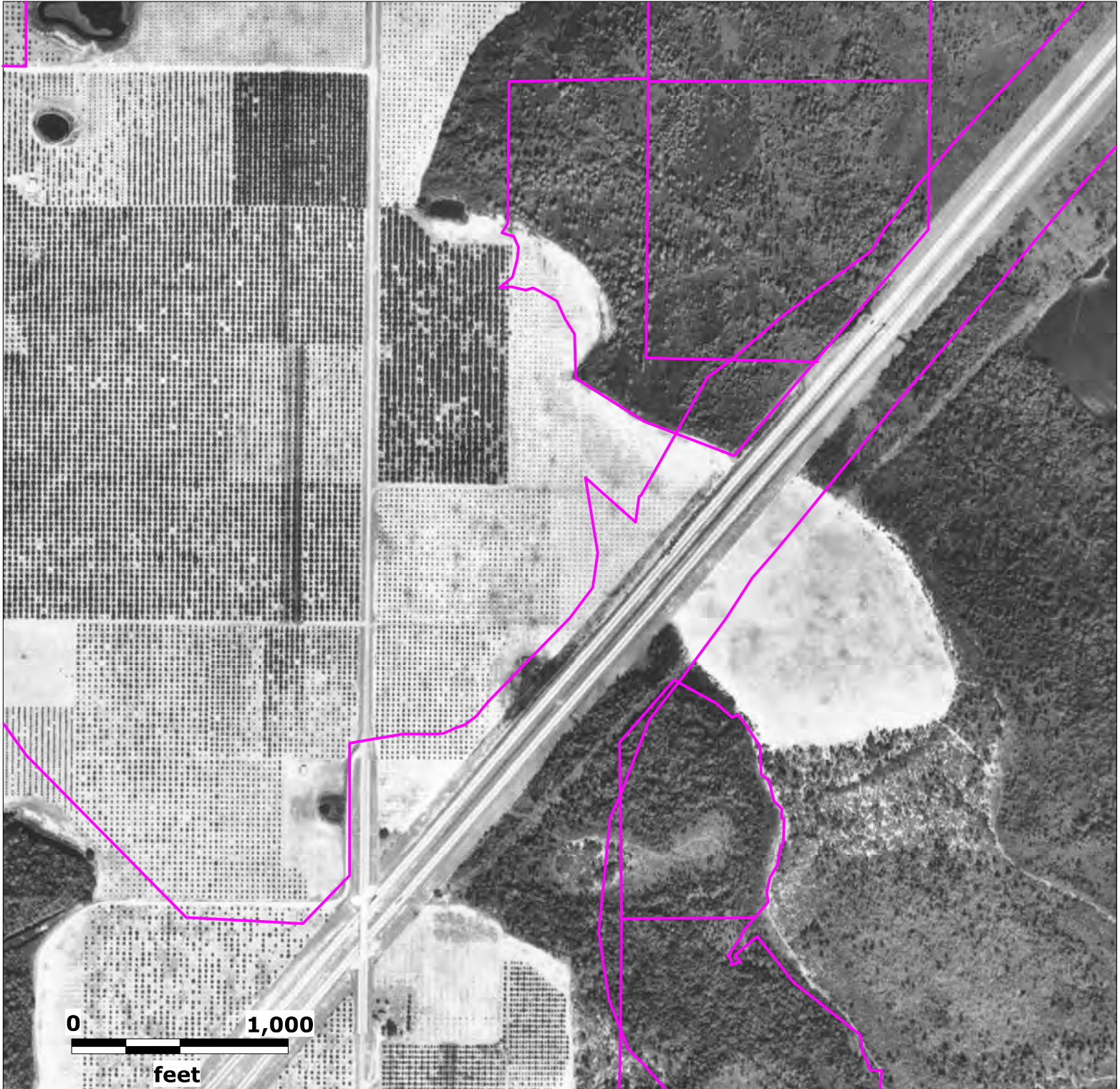
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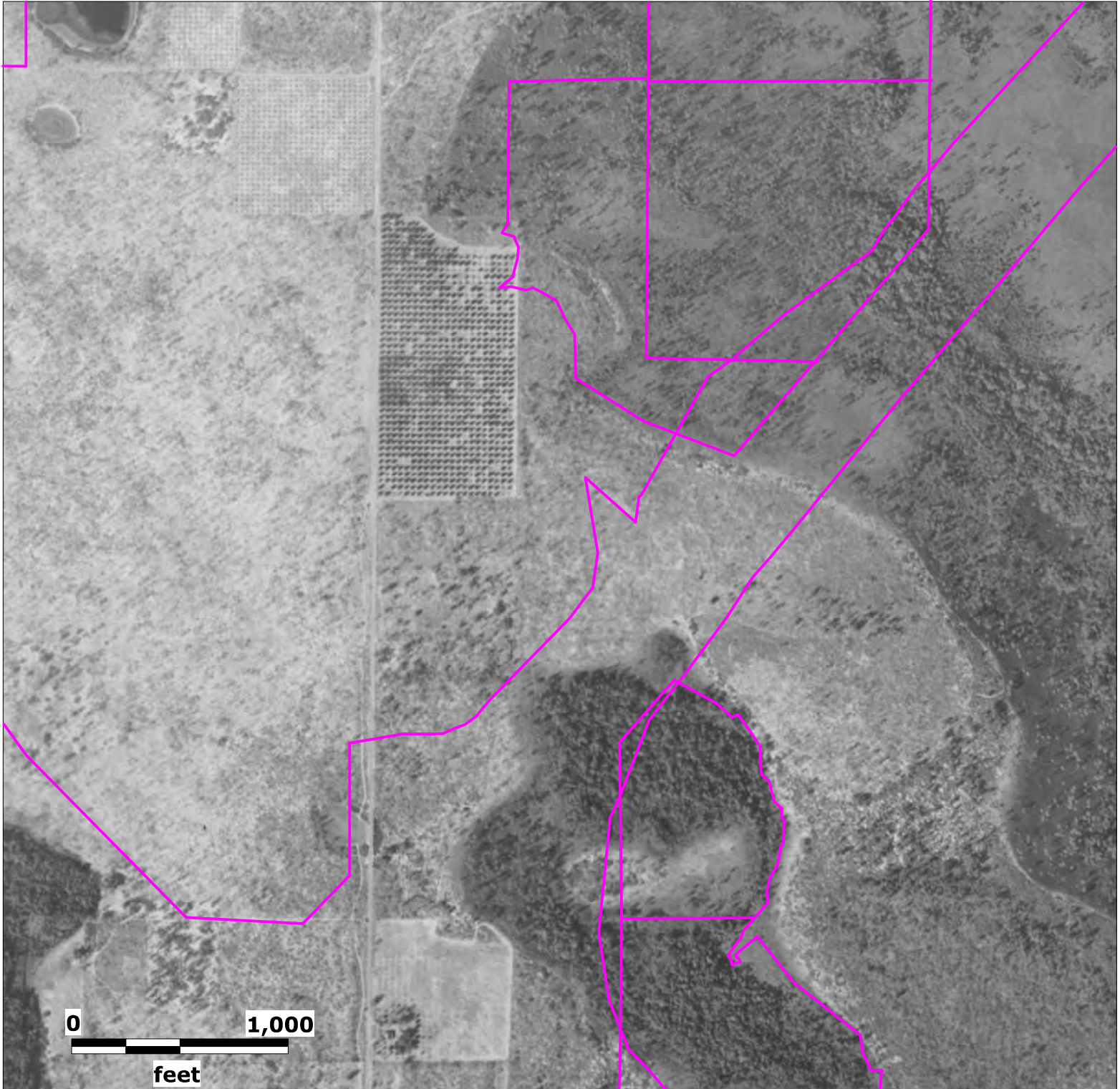
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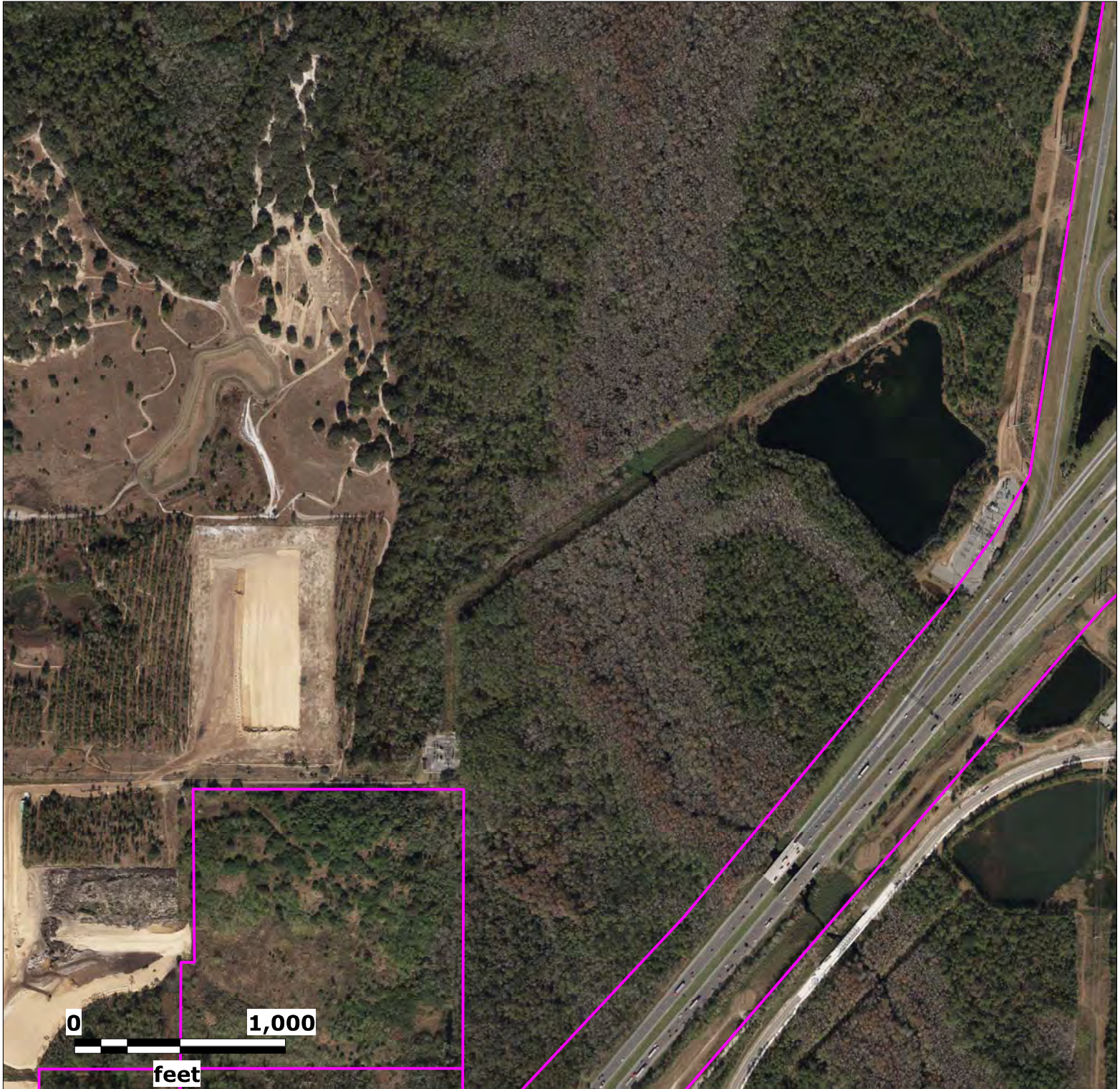
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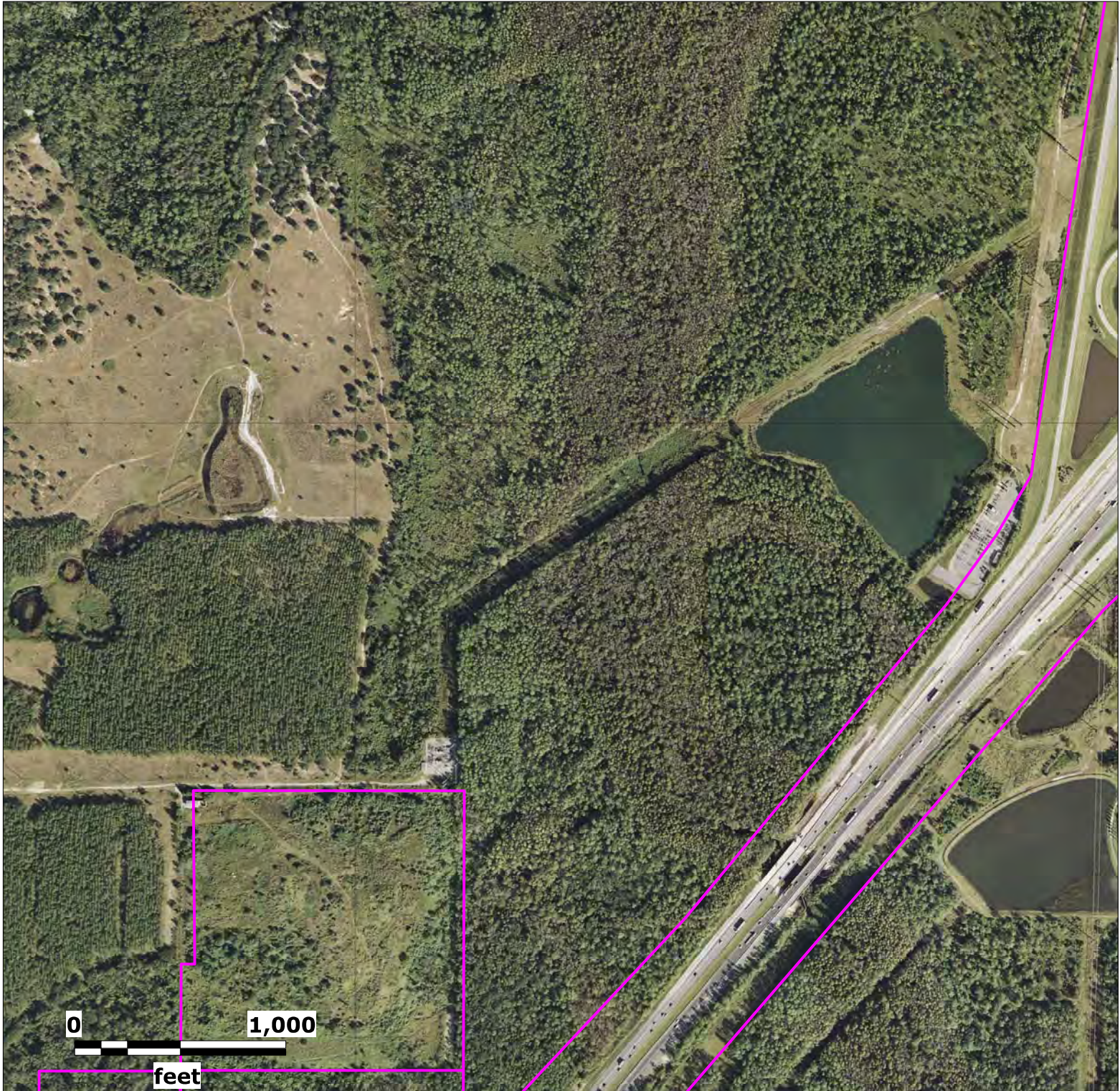
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Source: USGS Single Frame Collection

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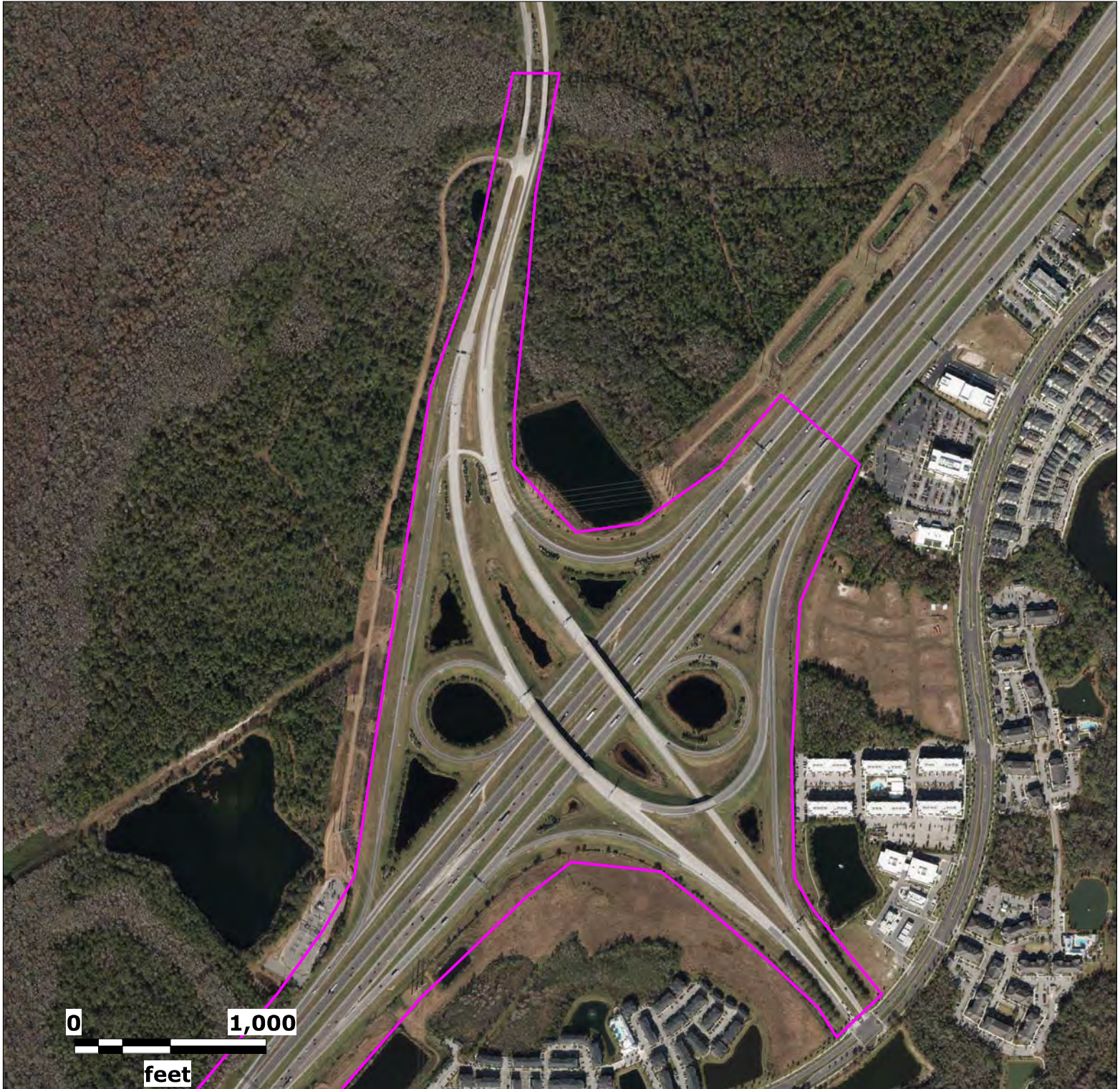
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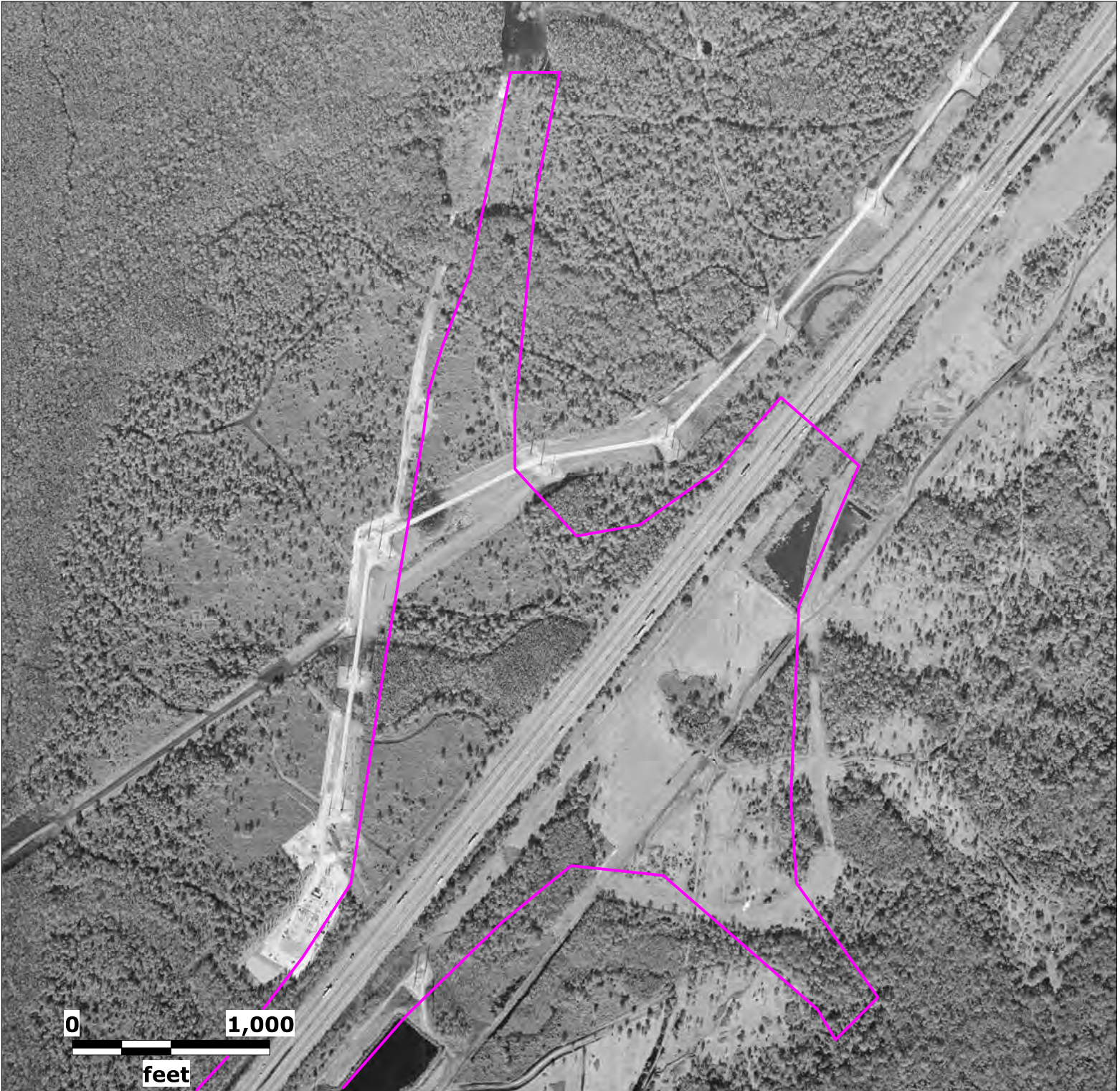
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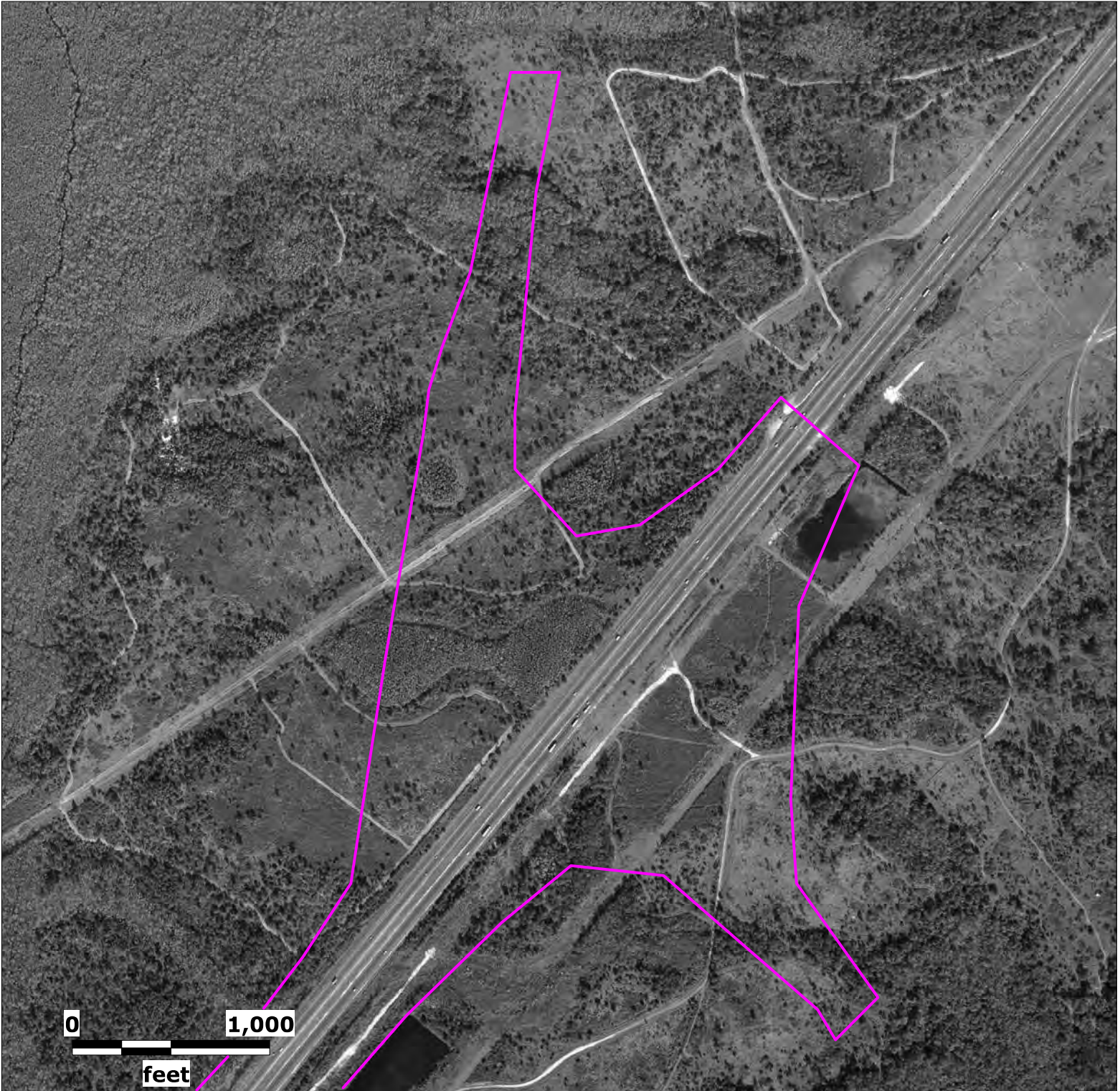
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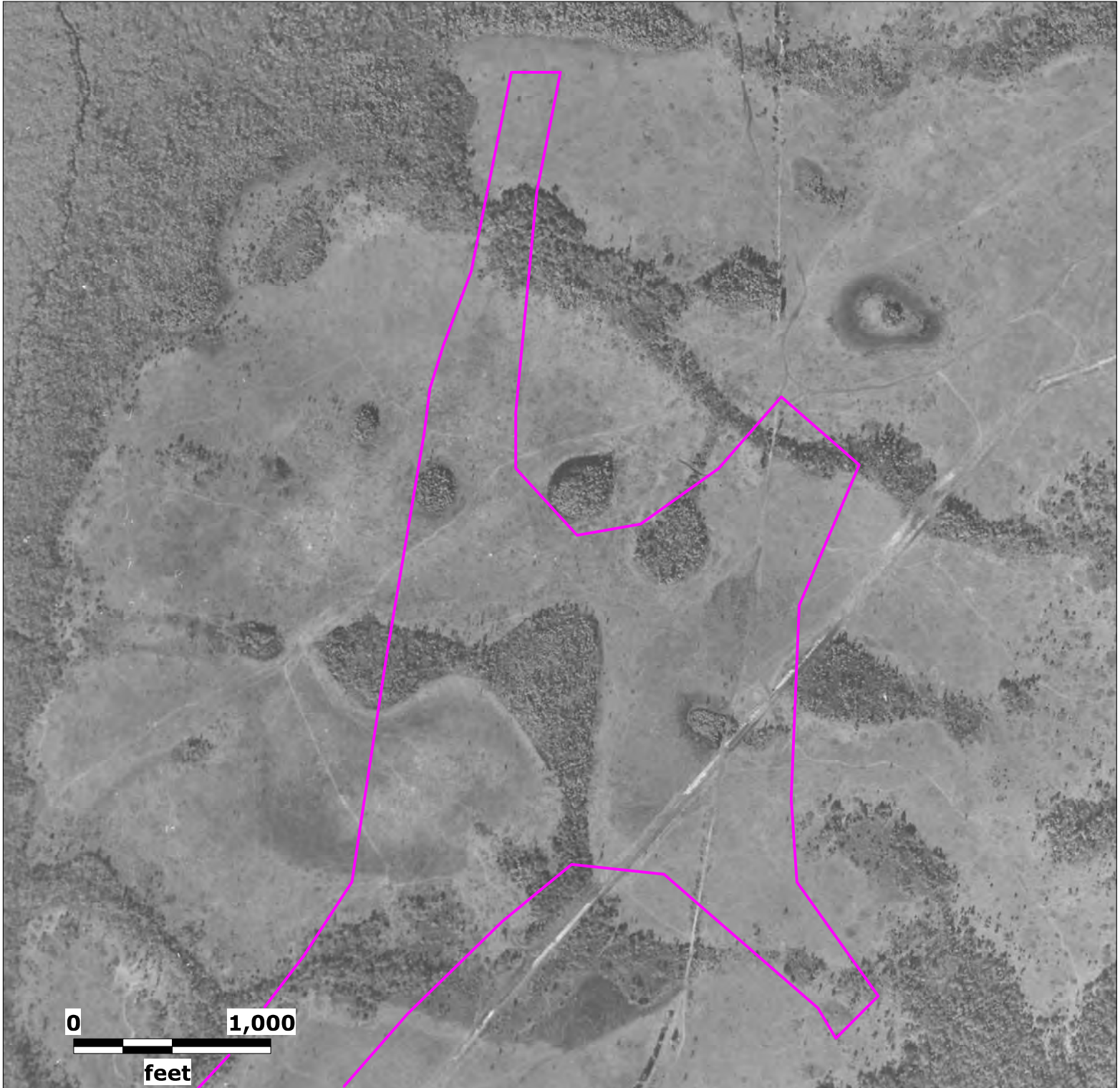
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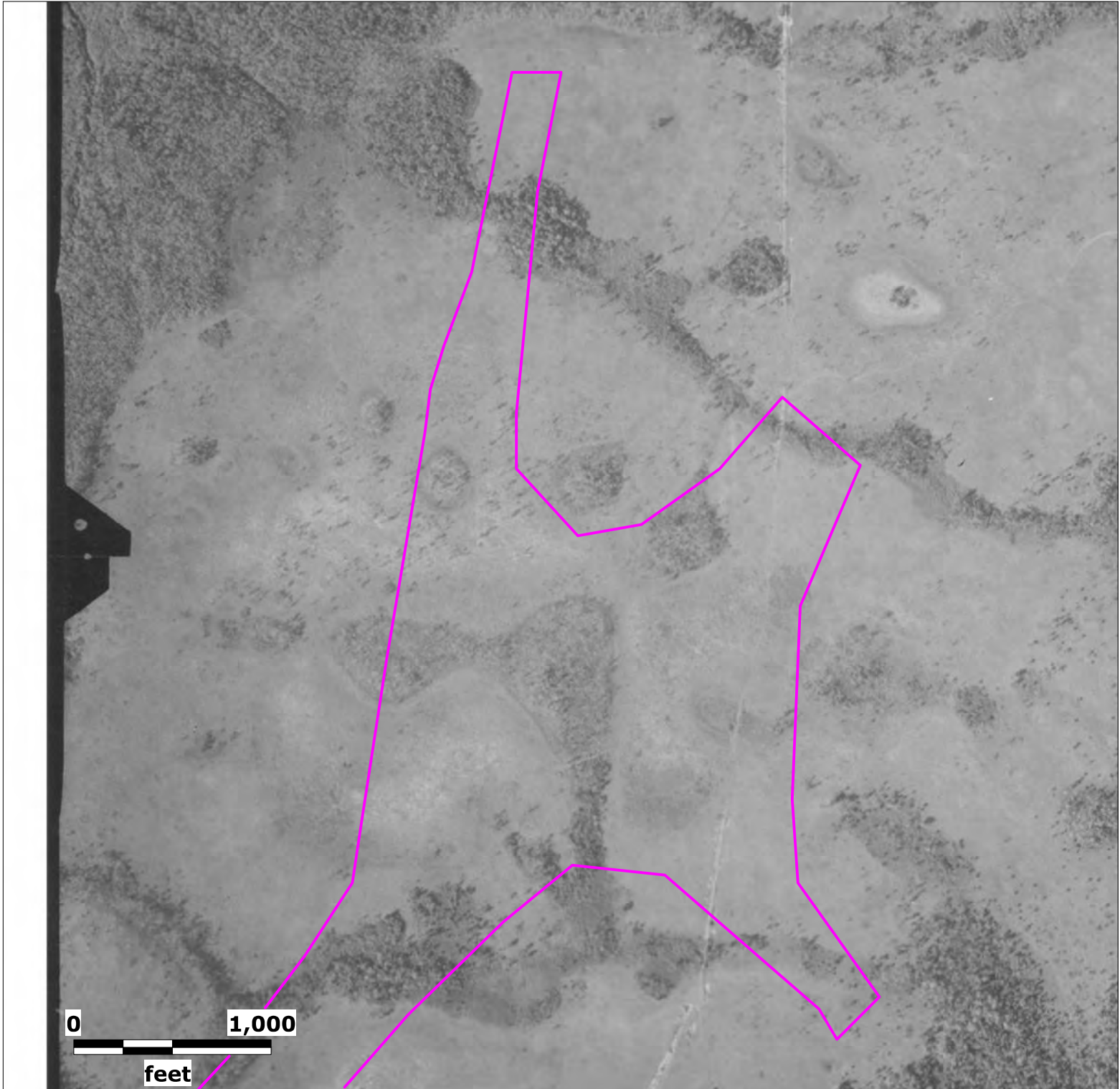
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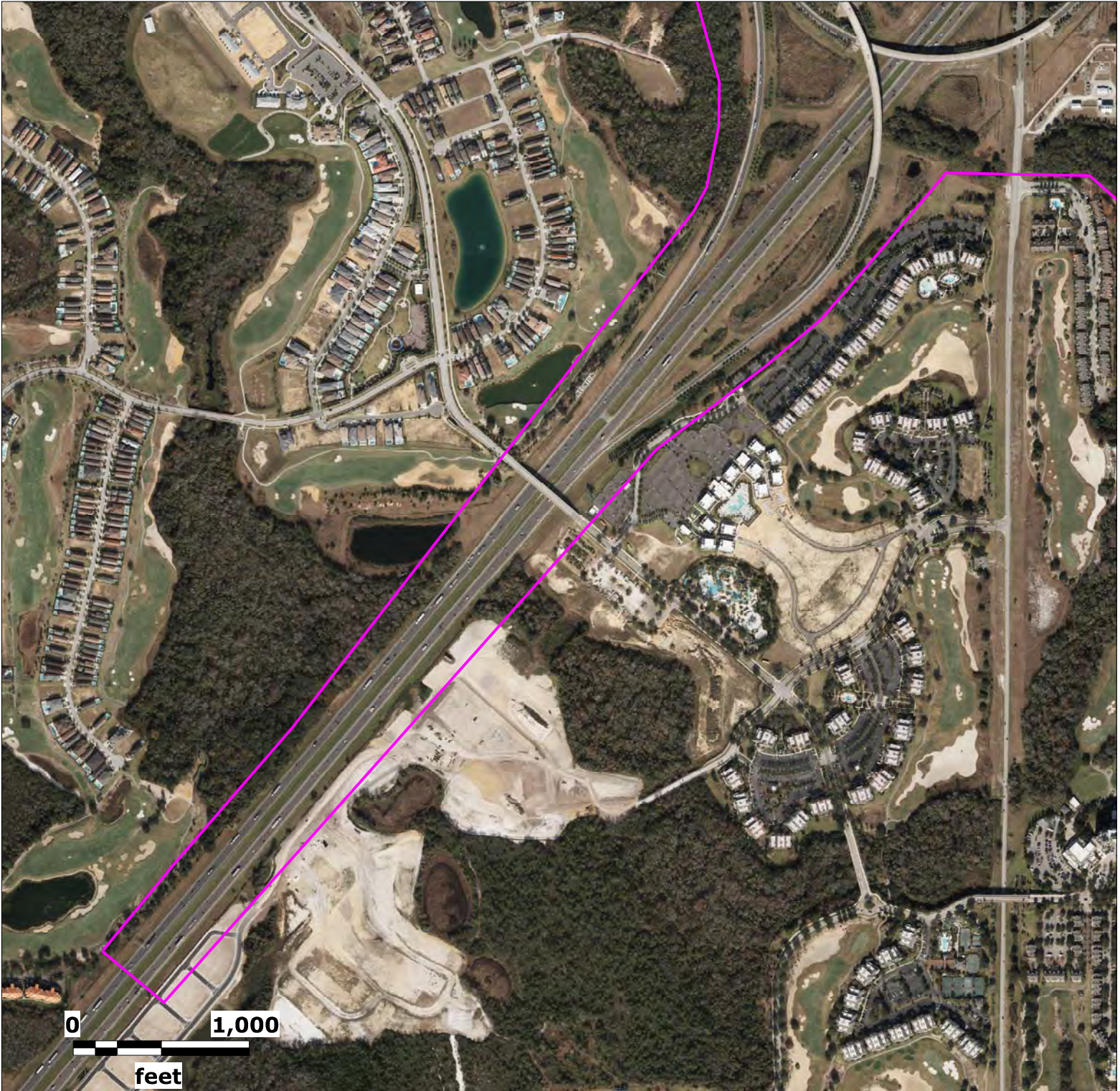
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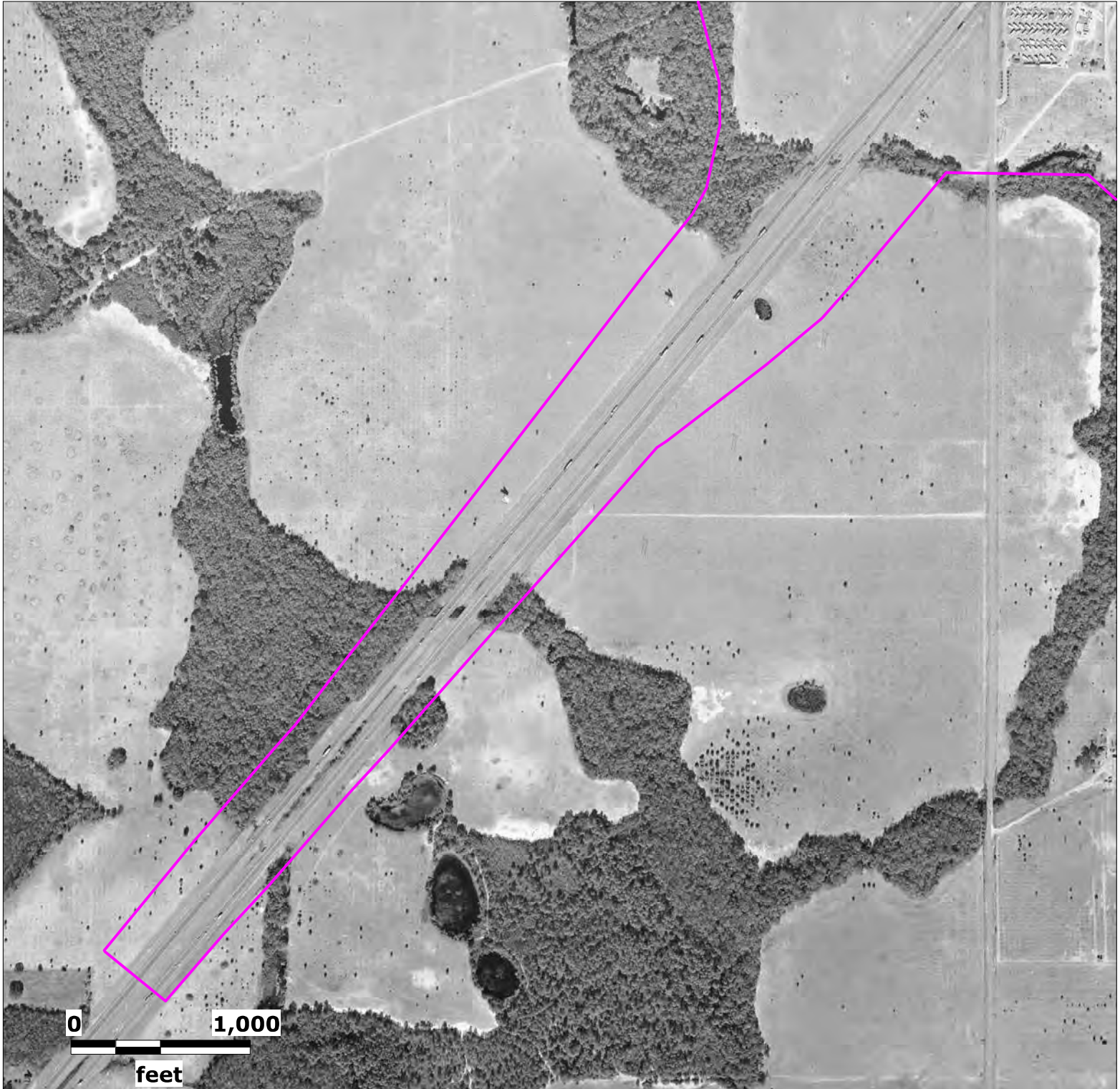
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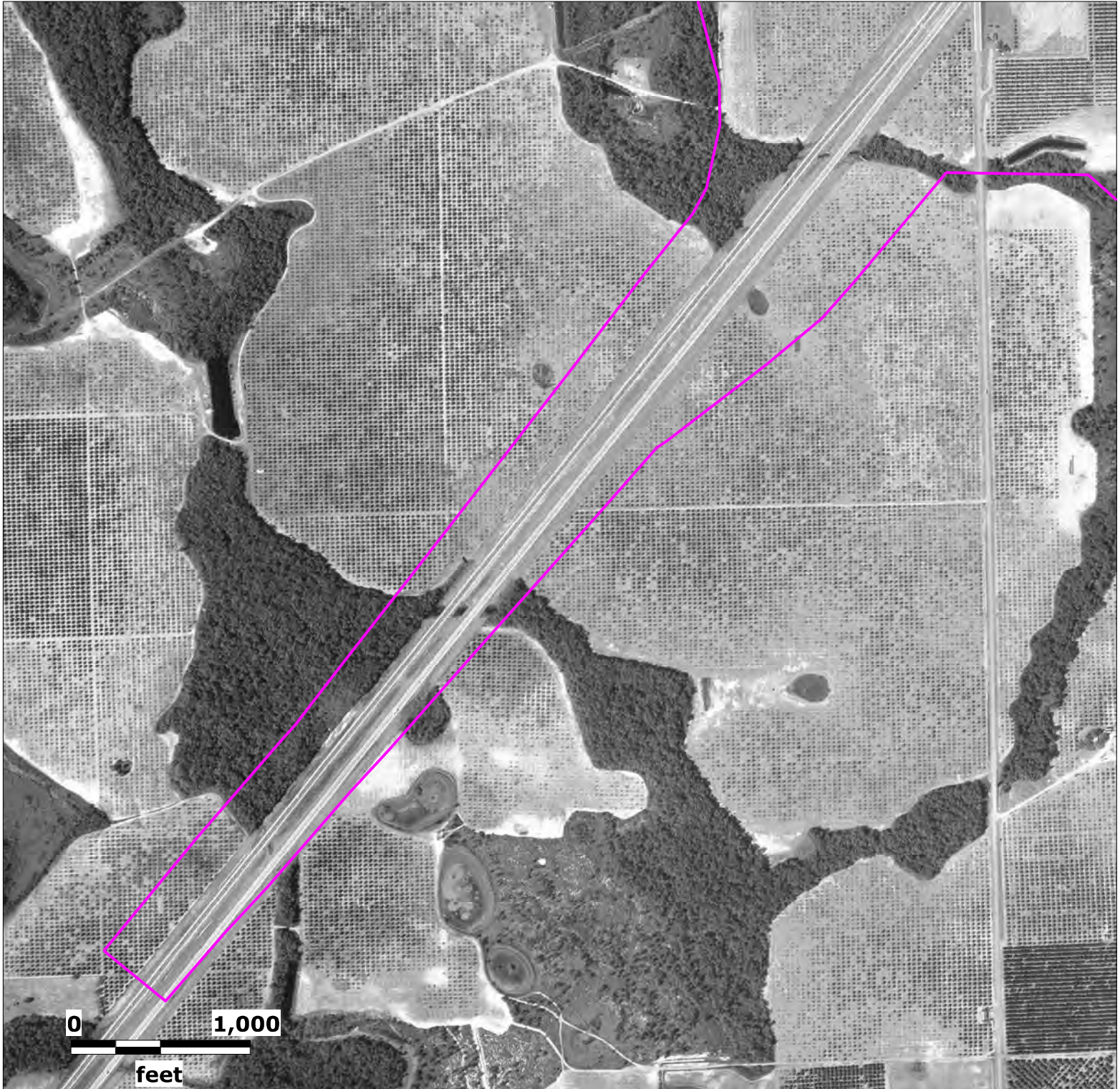
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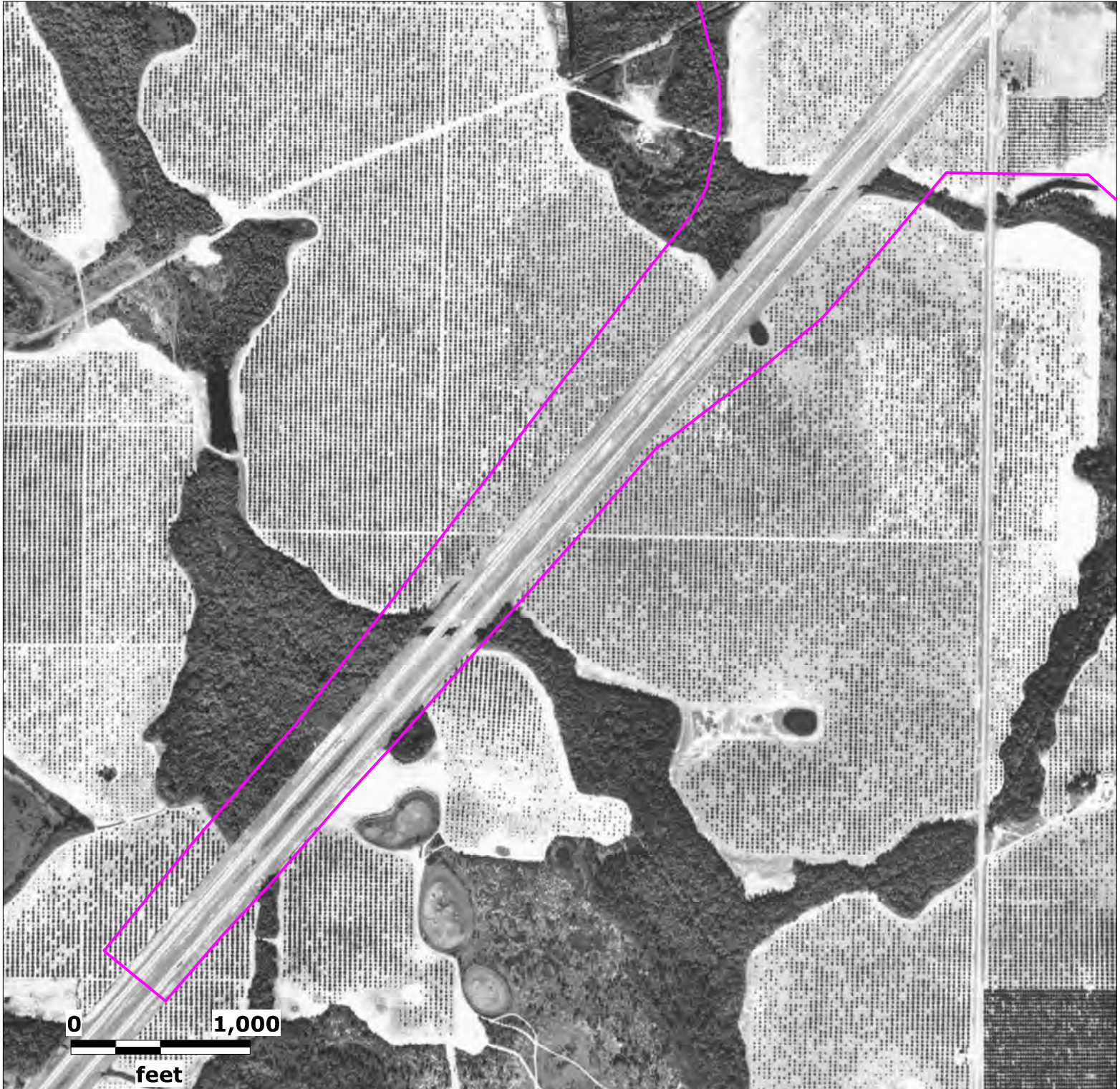
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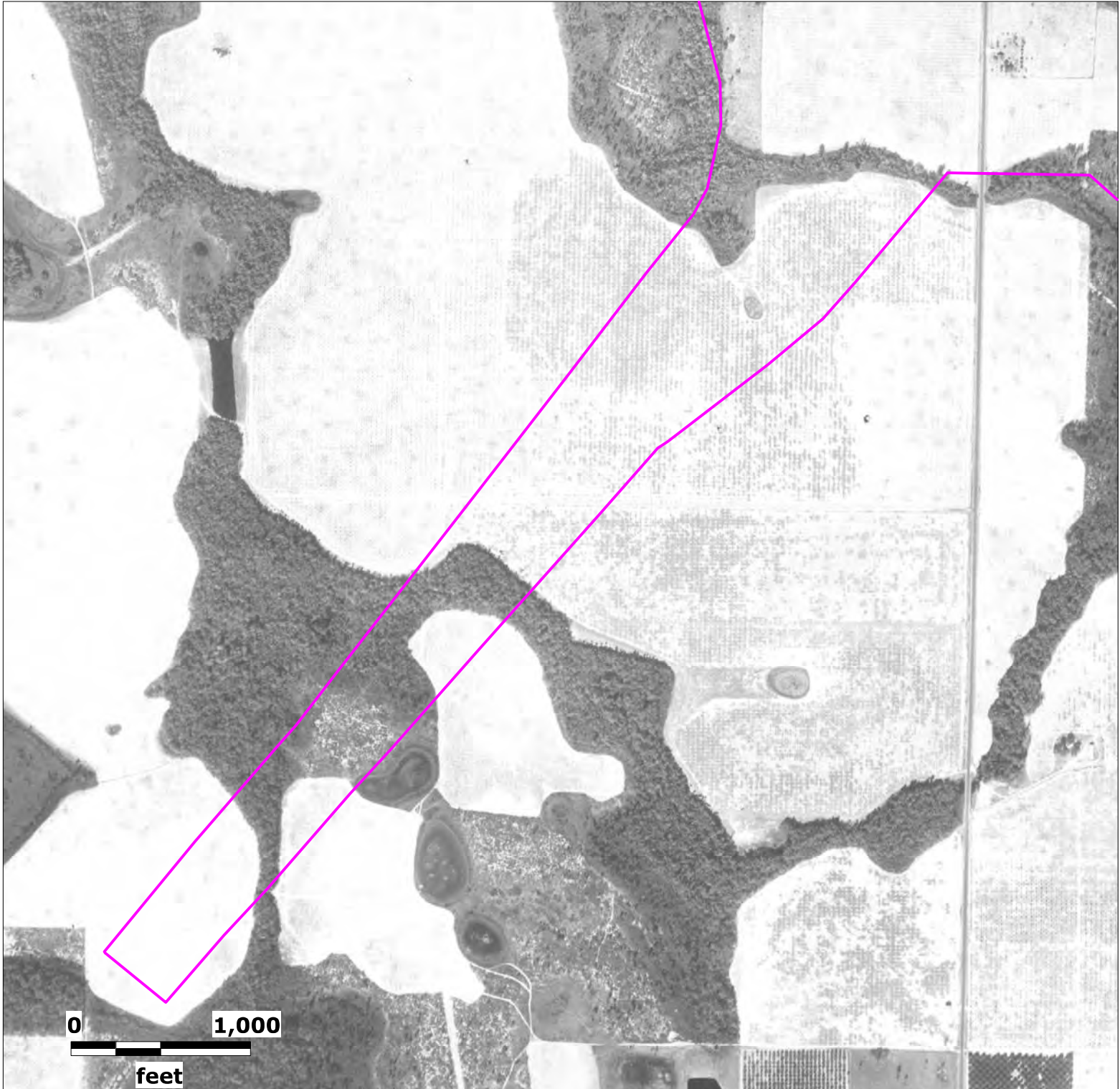
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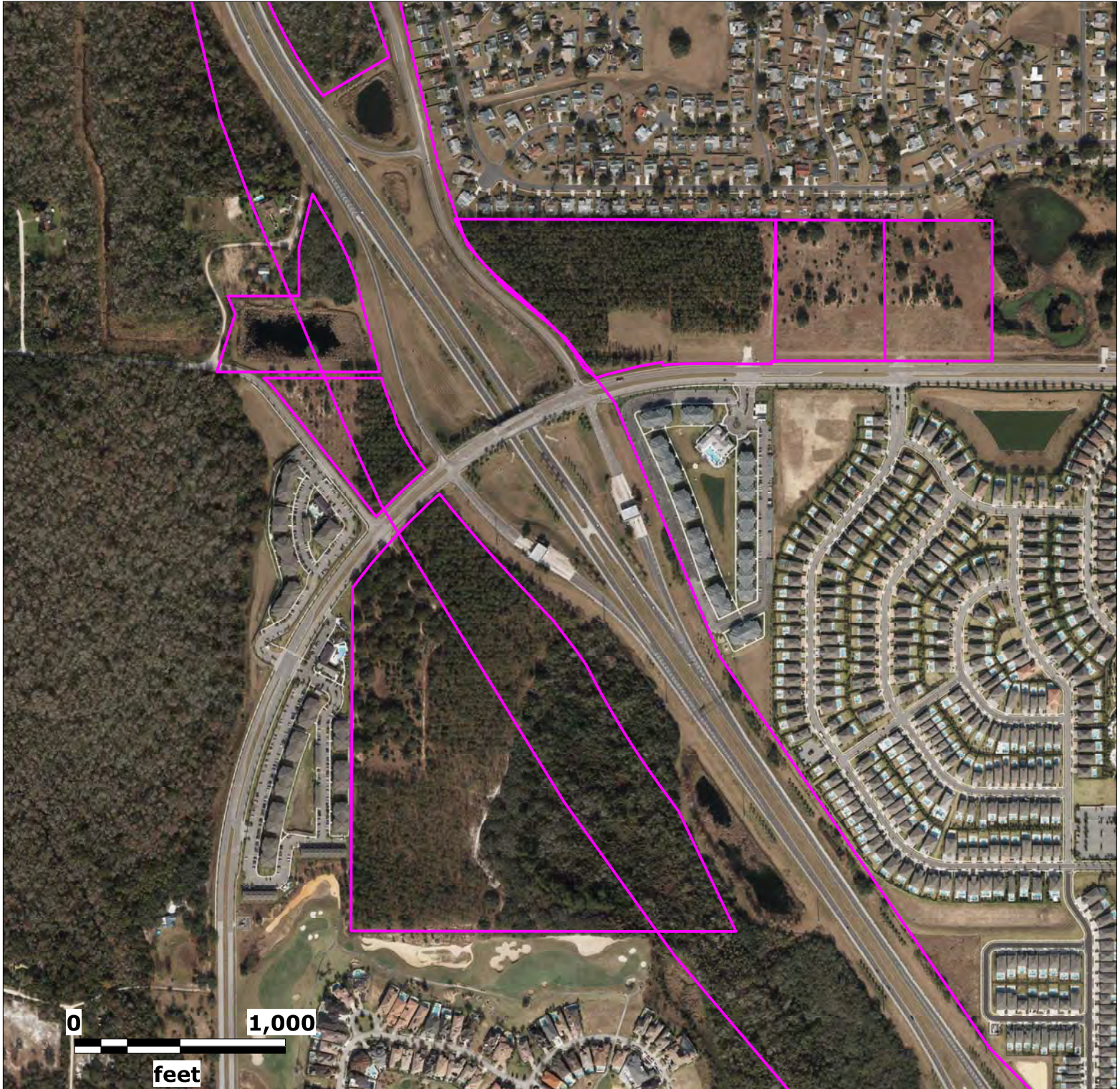
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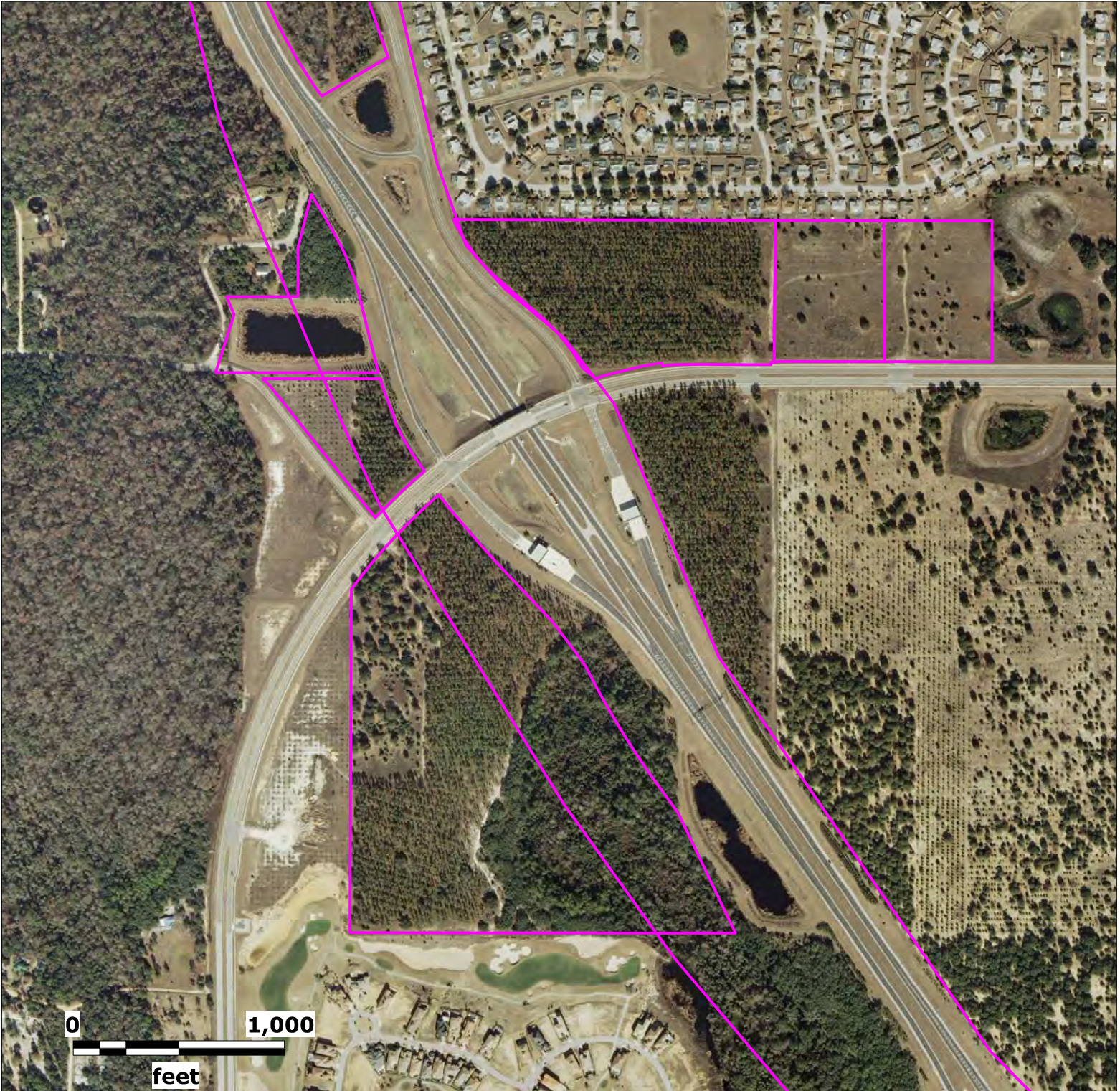
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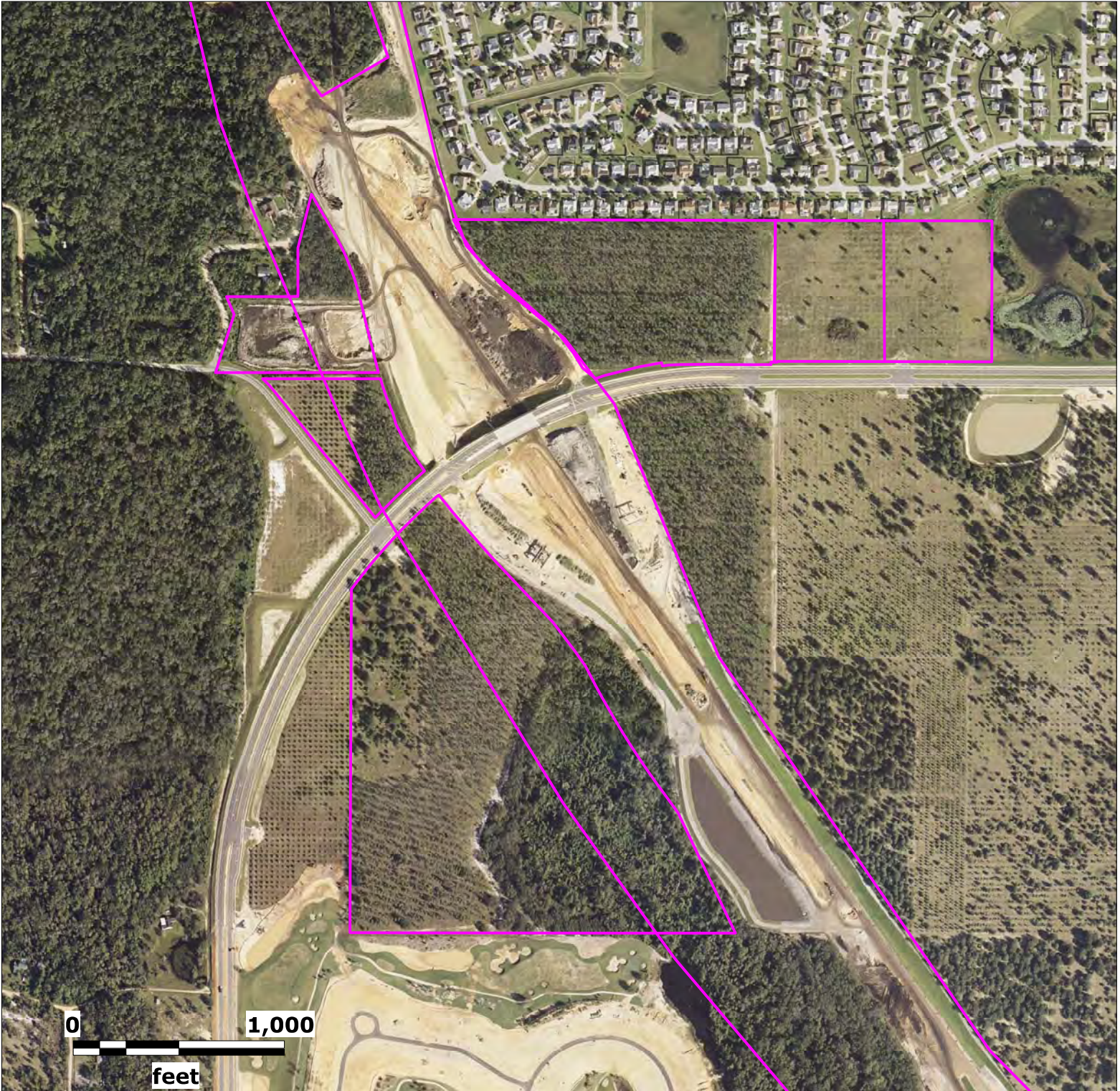
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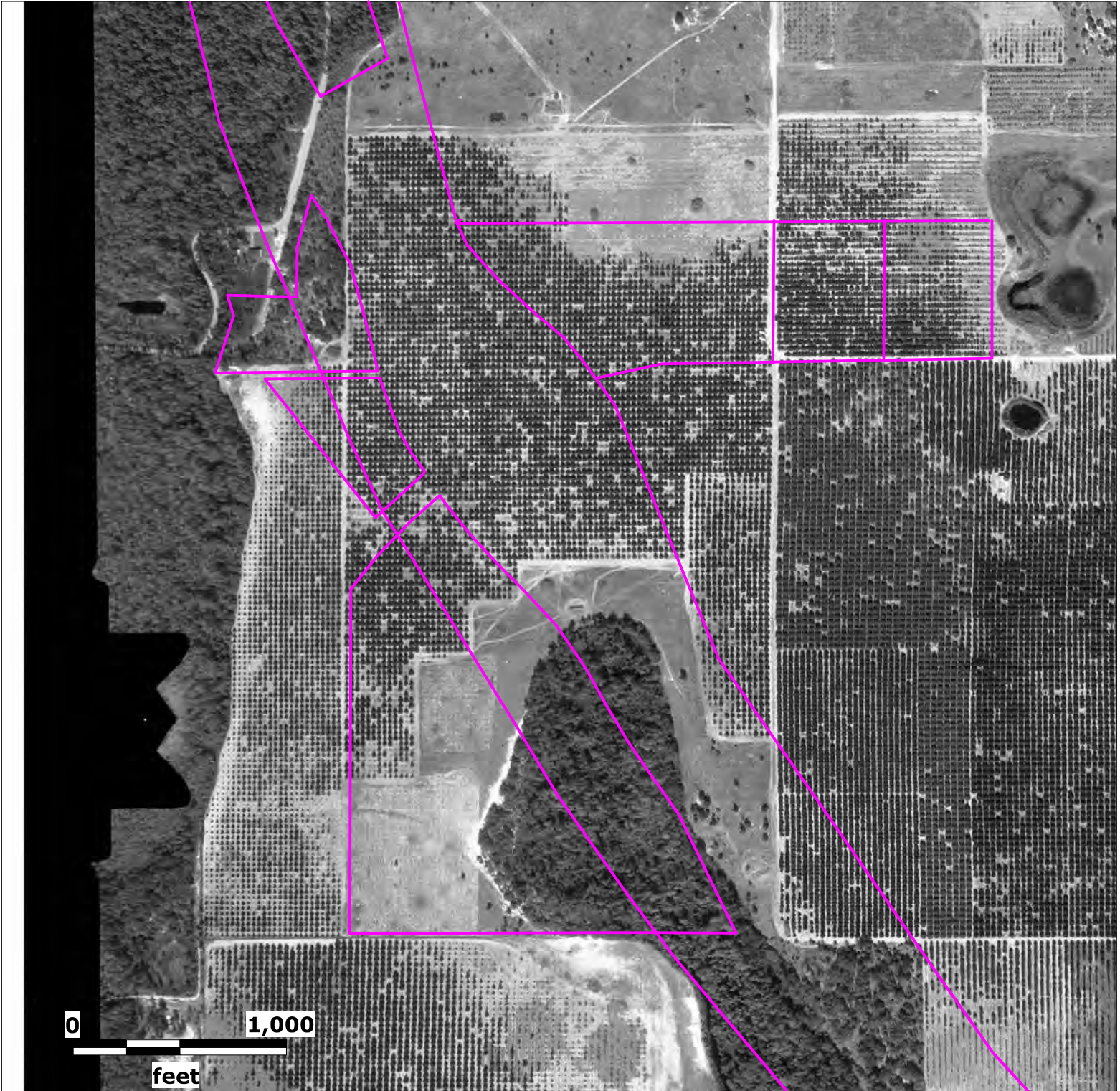
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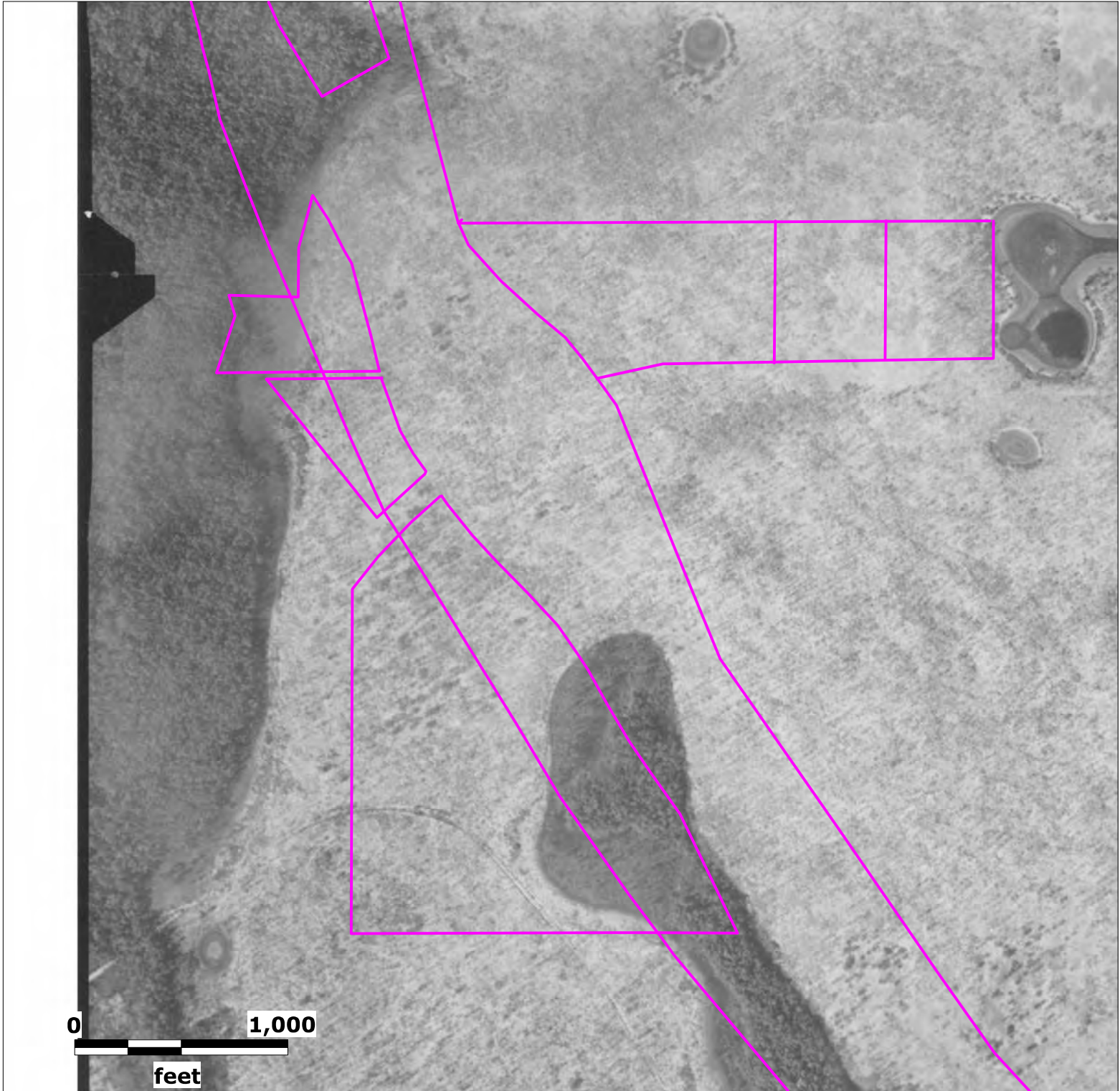
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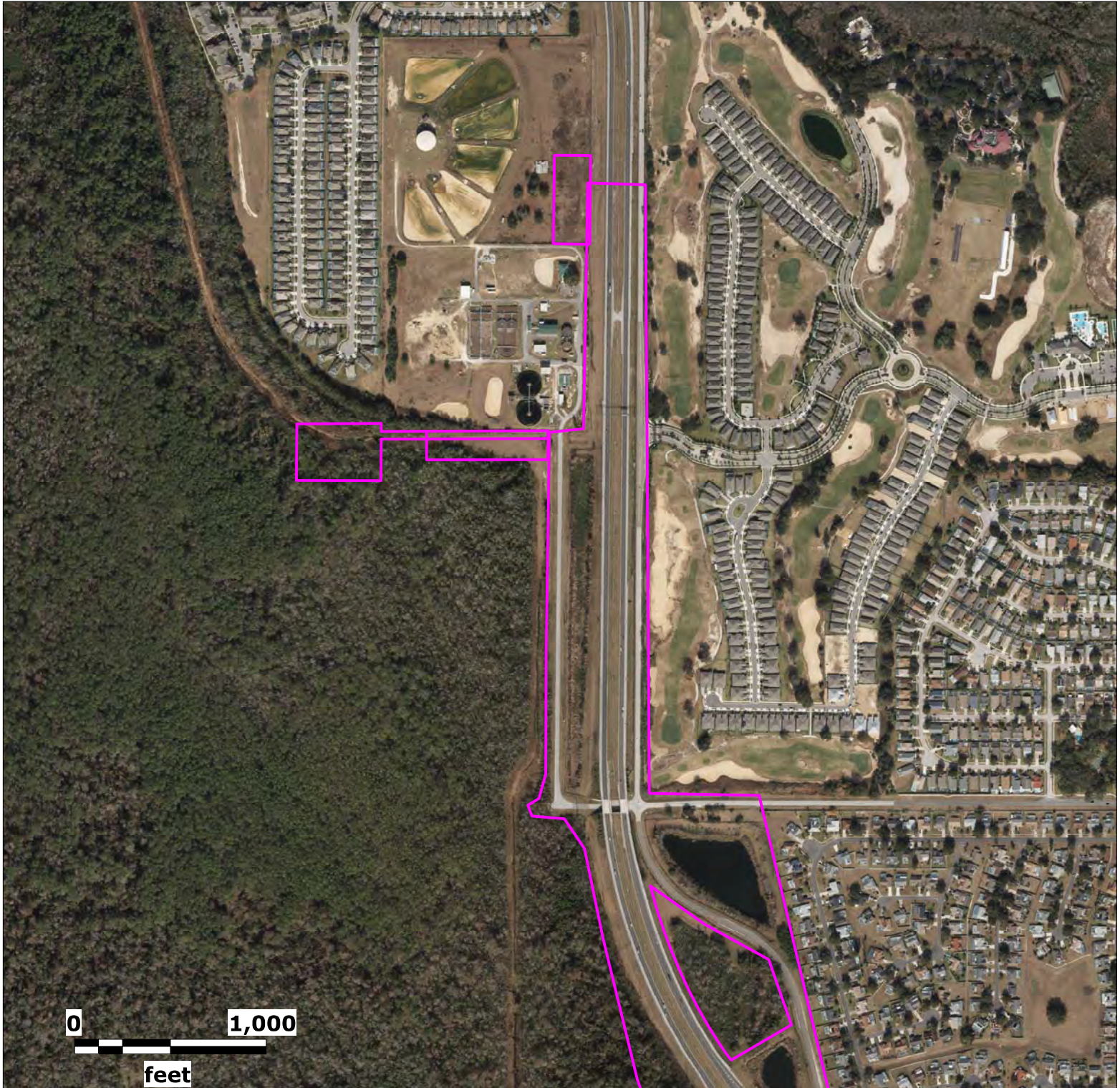
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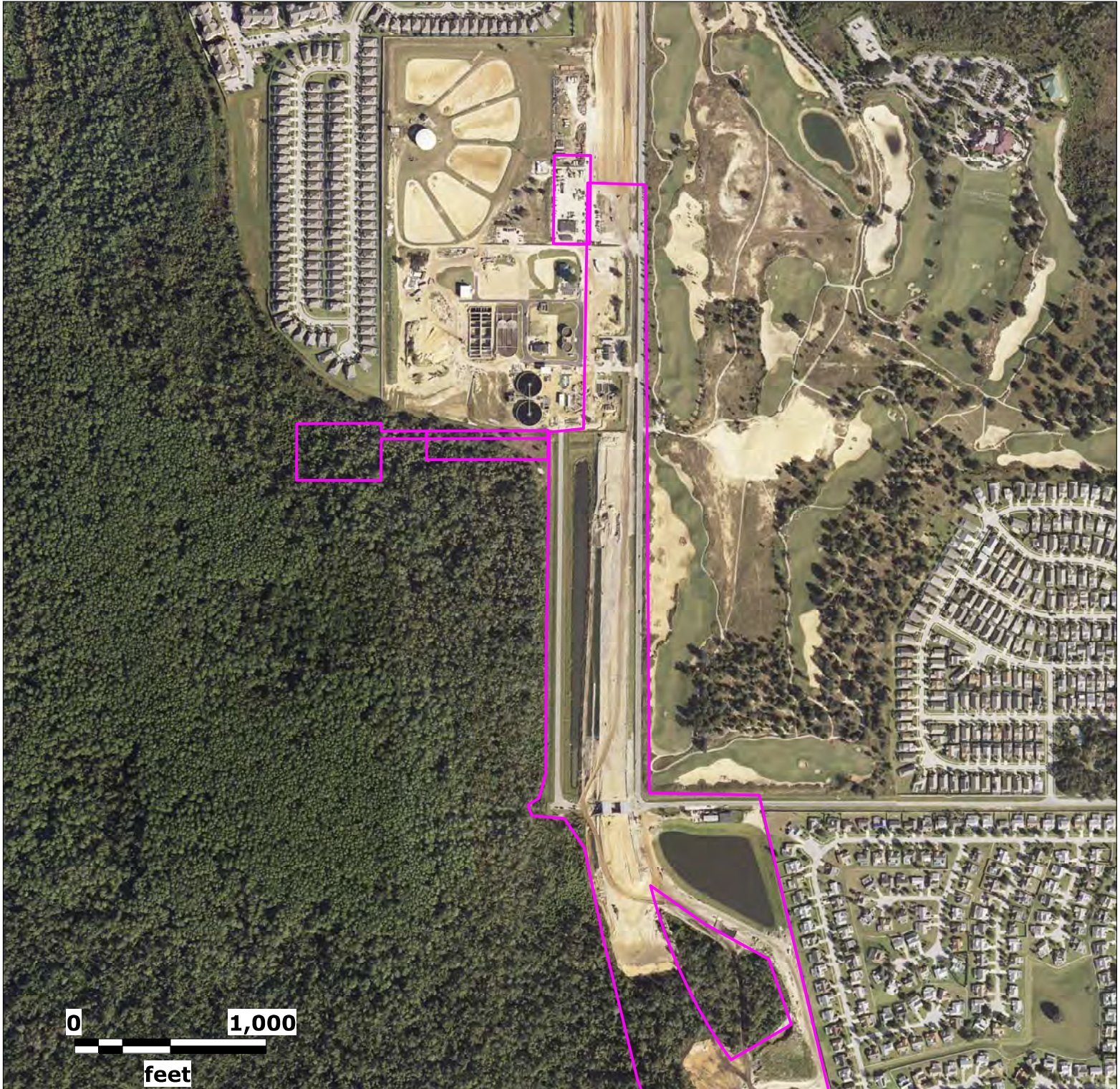
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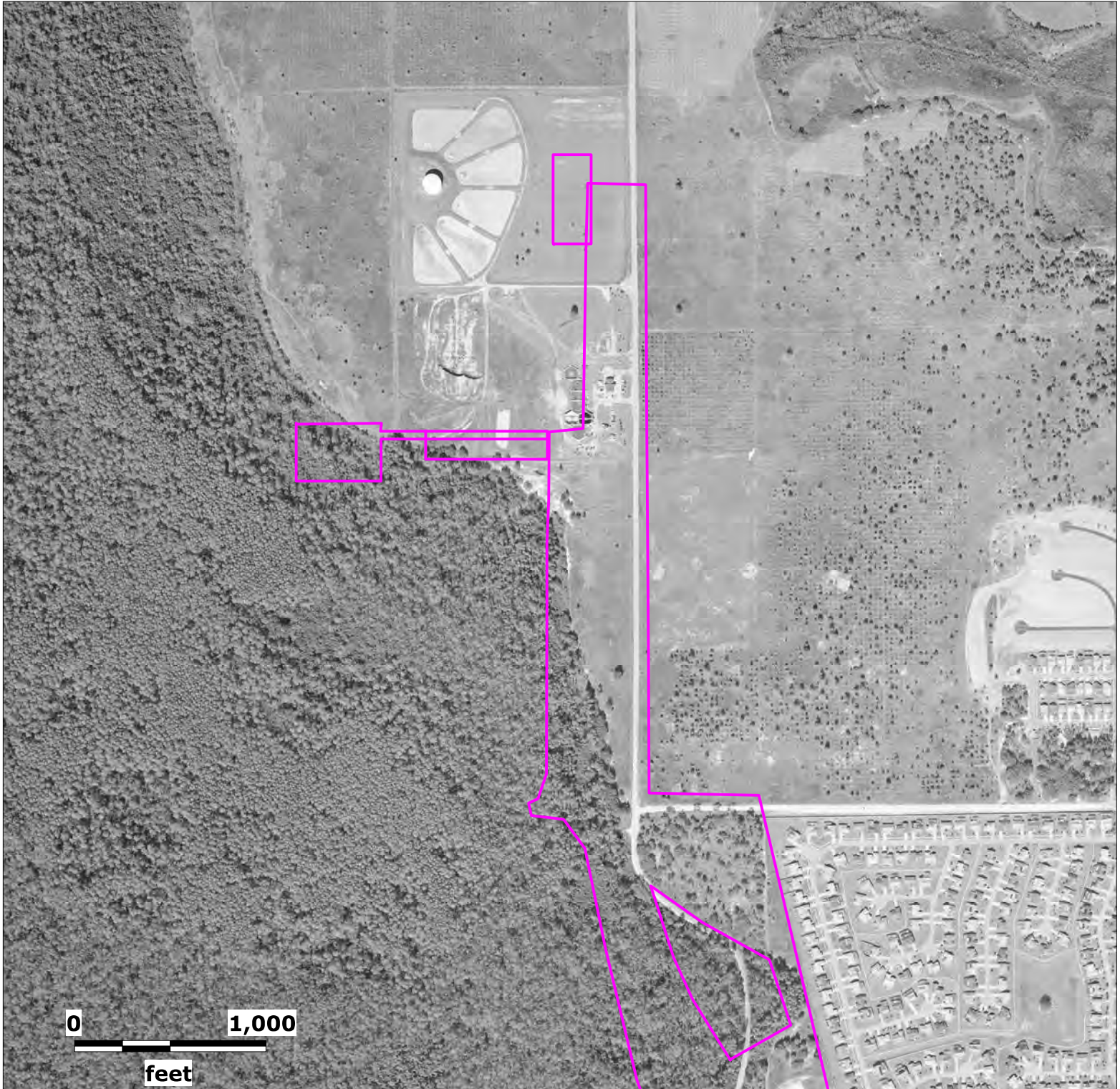
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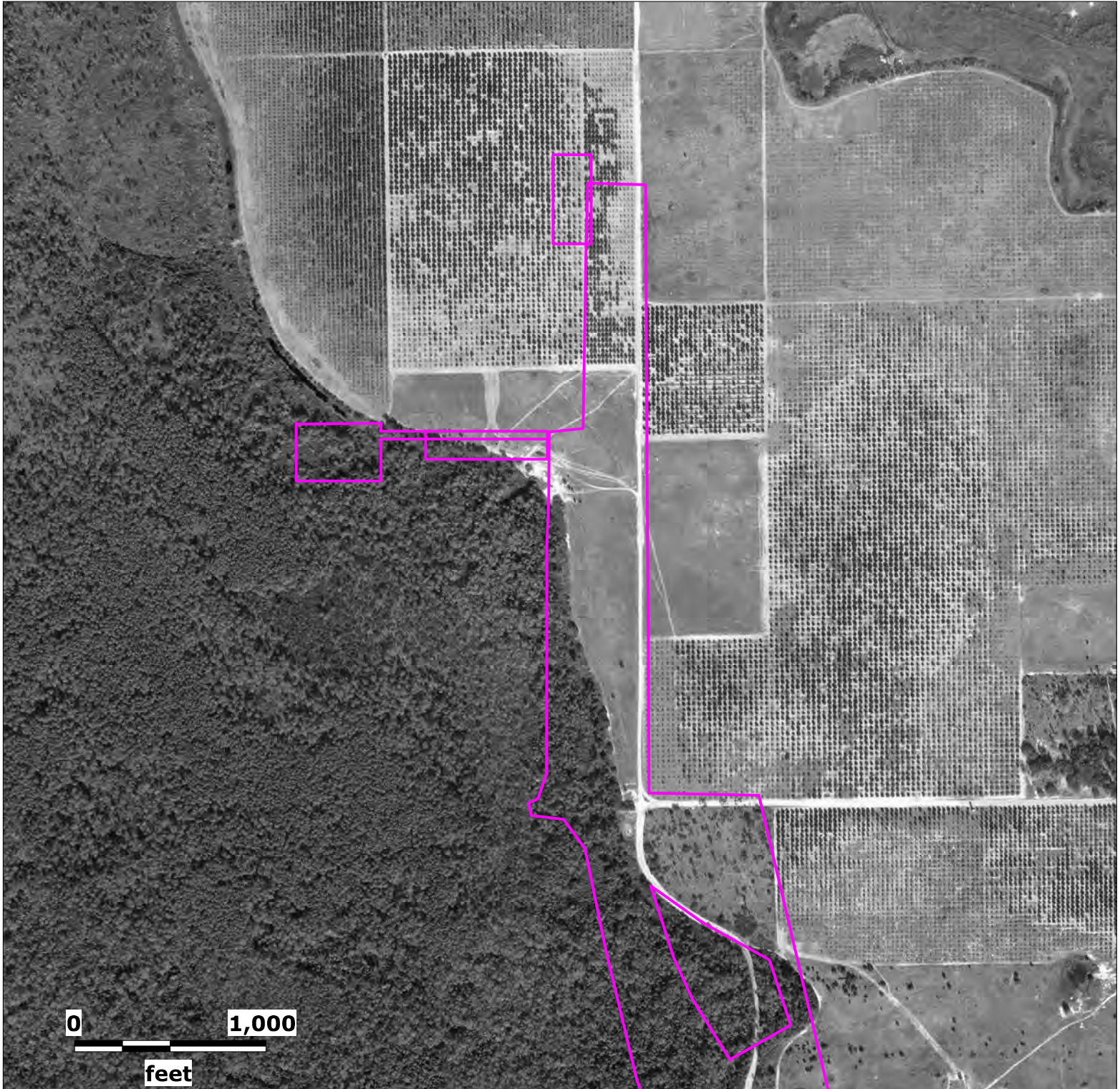
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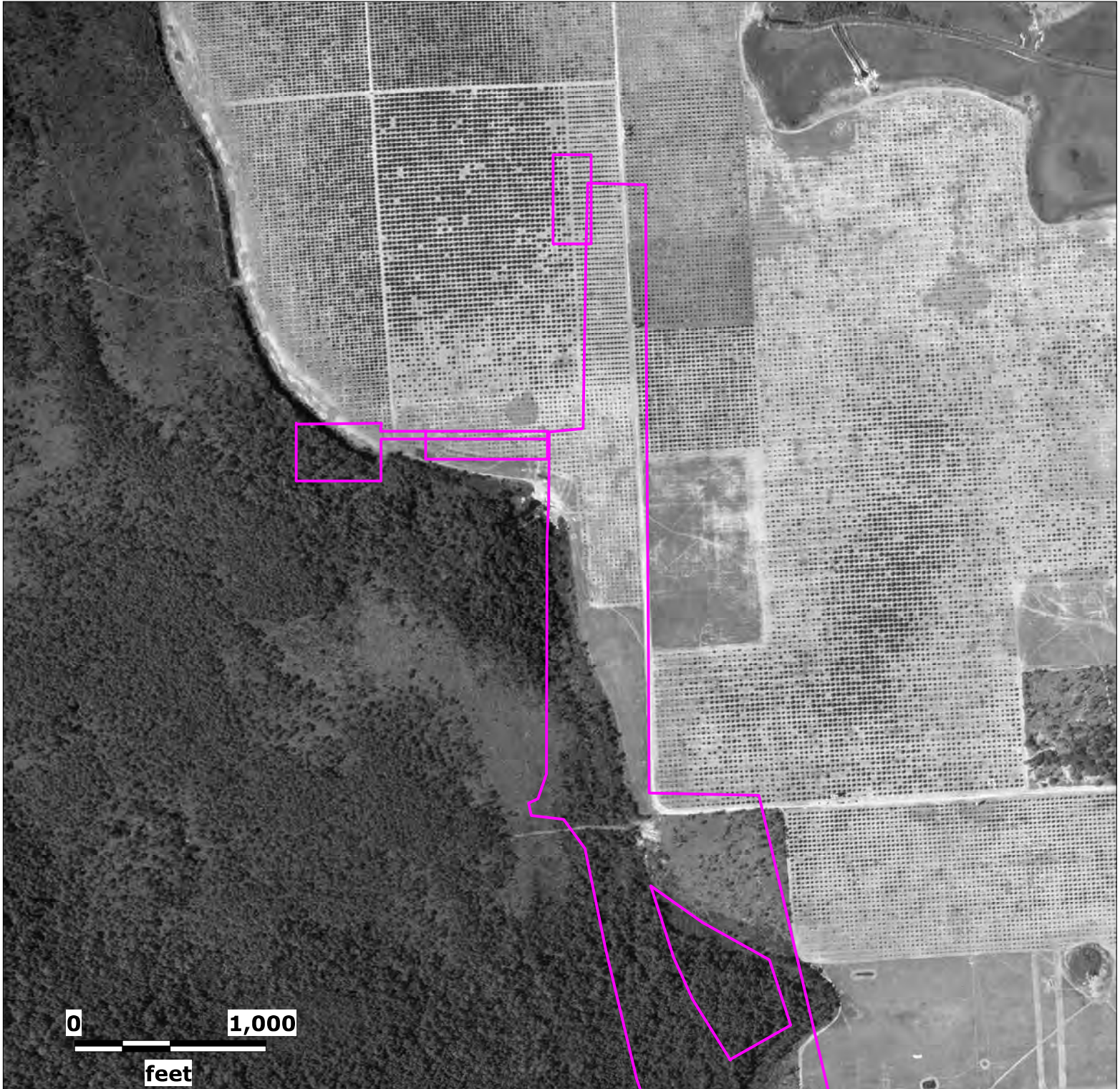
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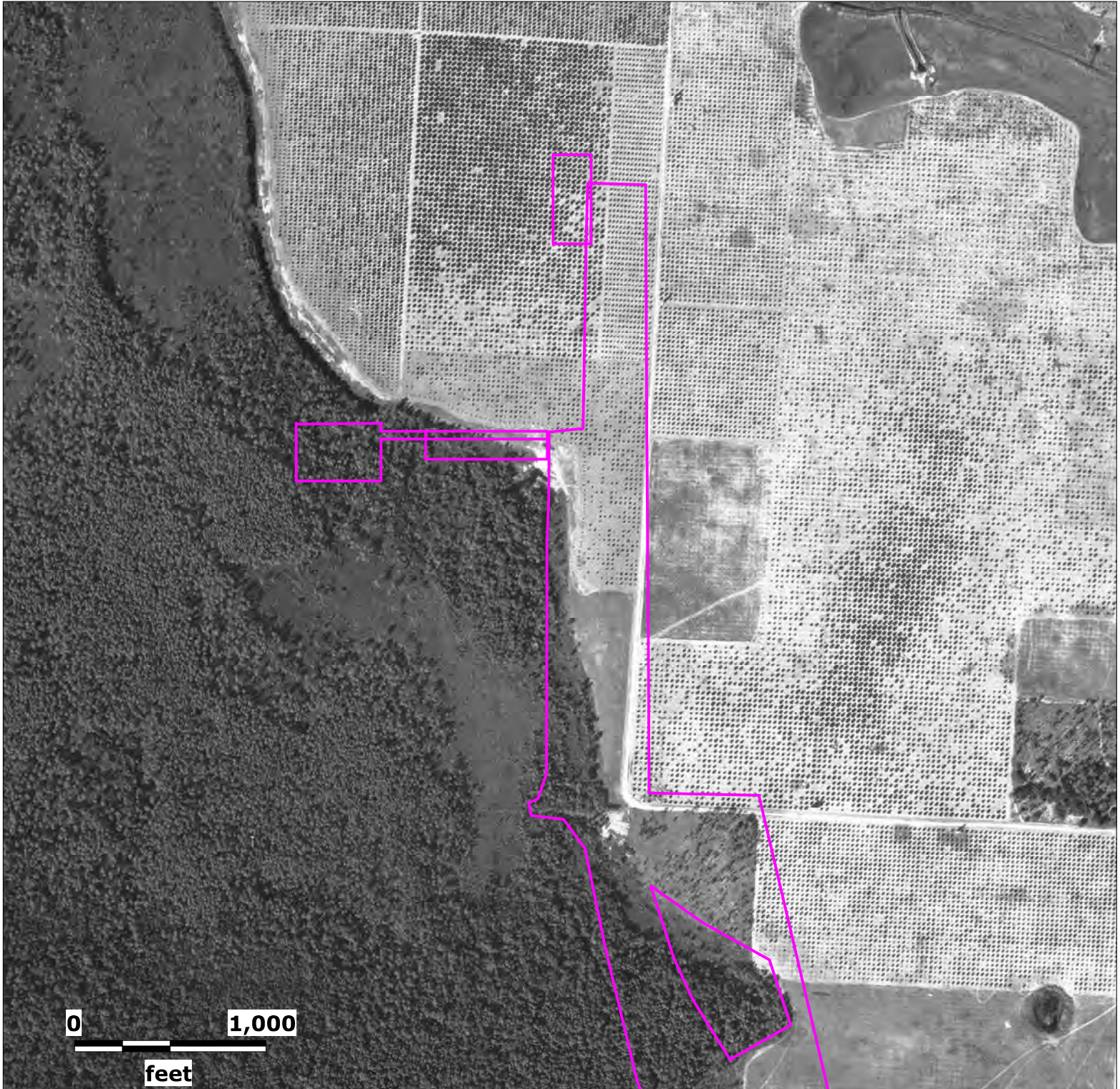
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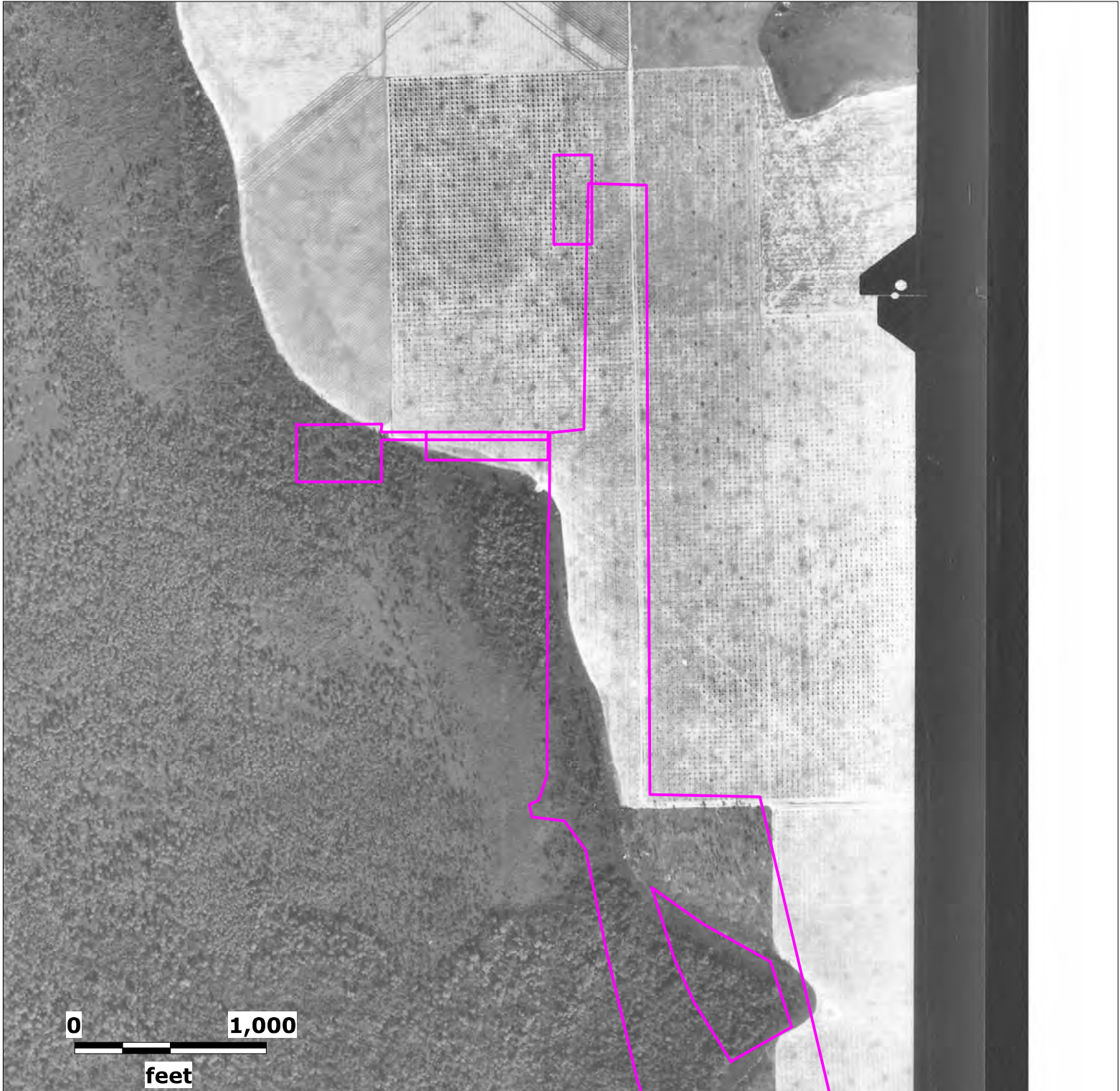
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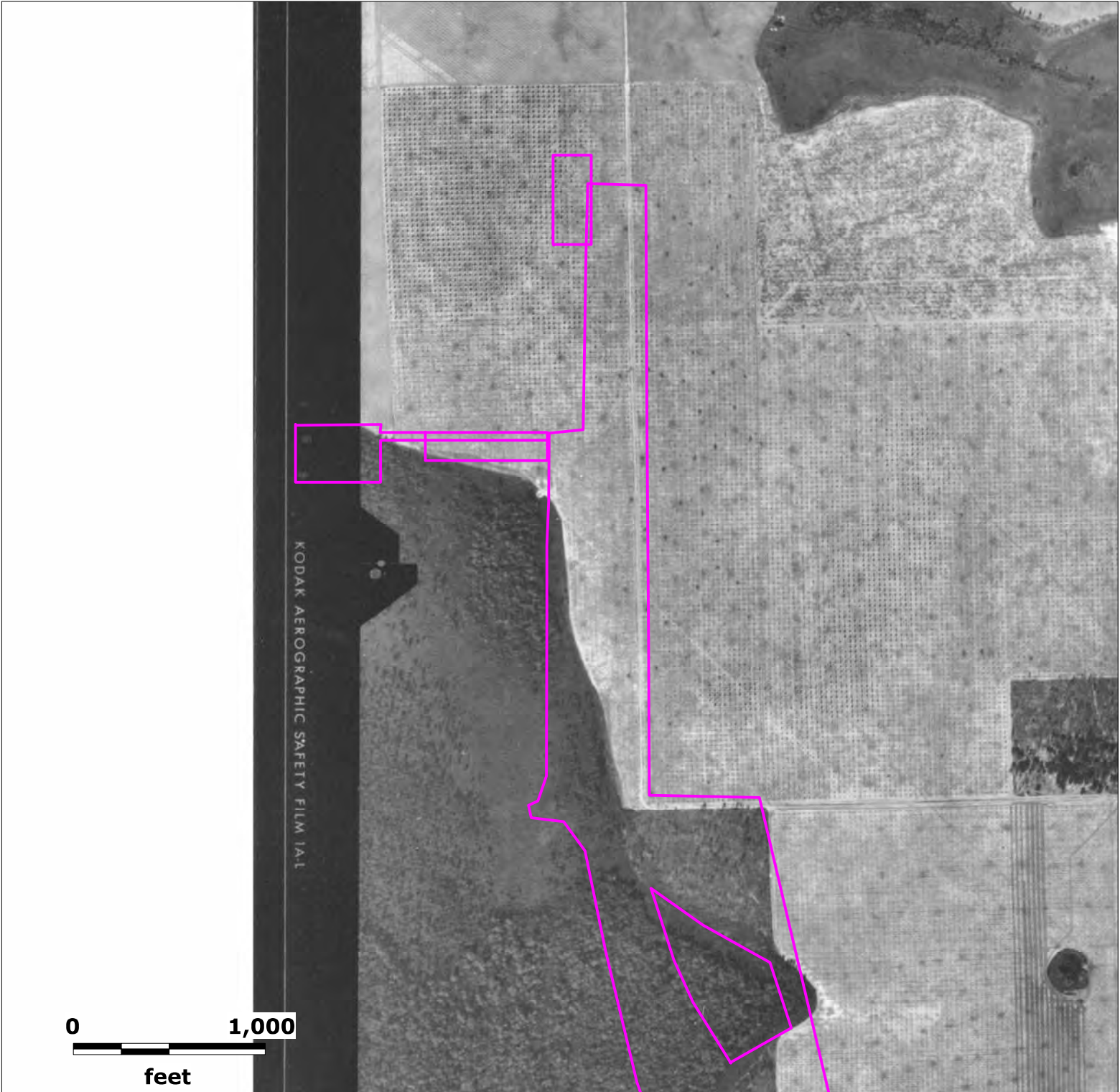
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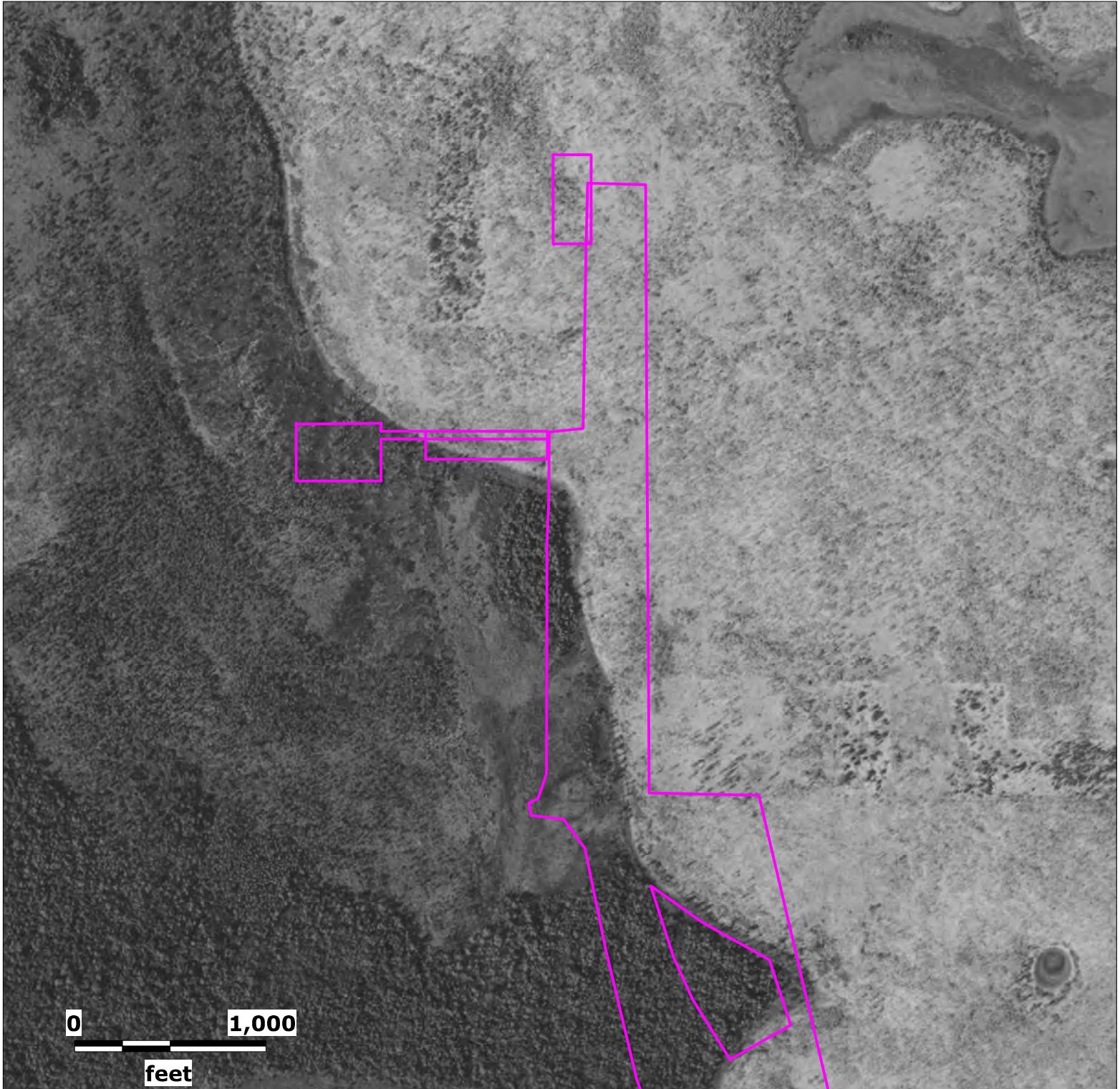
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Map Scale and Property Boundaries are Approximate

Subject Property

Poinciana Parkway Extension-
Mainline & Pond Sites
Osceola/Polk Counties, Florida

Lat (DMS): 28 18' 49.0536"
Lon (DMS): -81 34' 16.1544"

EDM Job No: 26147
June 8, 2022

 Approximate Site Location

APPENDIX C USGS TOPOGRAPHIC MAP

Historical Topographic Map Report

Subject Property:

Poinciana Parkway Extension-Mainline & Pond Sites
Osceola/Polk Counties, Florida
Intercession City Quadrangle

Prepared For:

Tierra Inc
7351 Temple Terrace Hwy
Tampa, FL 33637

Prepared By:



Environmental Data Management, Inc.
2840 West Bay Drive, Suite 208
Belleair Bluffs, Florida 33770

June 9, 2022



Environmental Data Management, Inc.
2840 West Bay Drive, Suite 208
Belleair Bluffs, Florida 33770
(727) 586-1700
<http://www.edm-net.com>

June 9, 2022

Chris Garth
Tierra Inc
7351 Temple Terrace Hwy
Tampa, FL 33637

Subject: **Historical Topographic Maps-- EDM Project #: 26147**

Dear Mr. Garth:

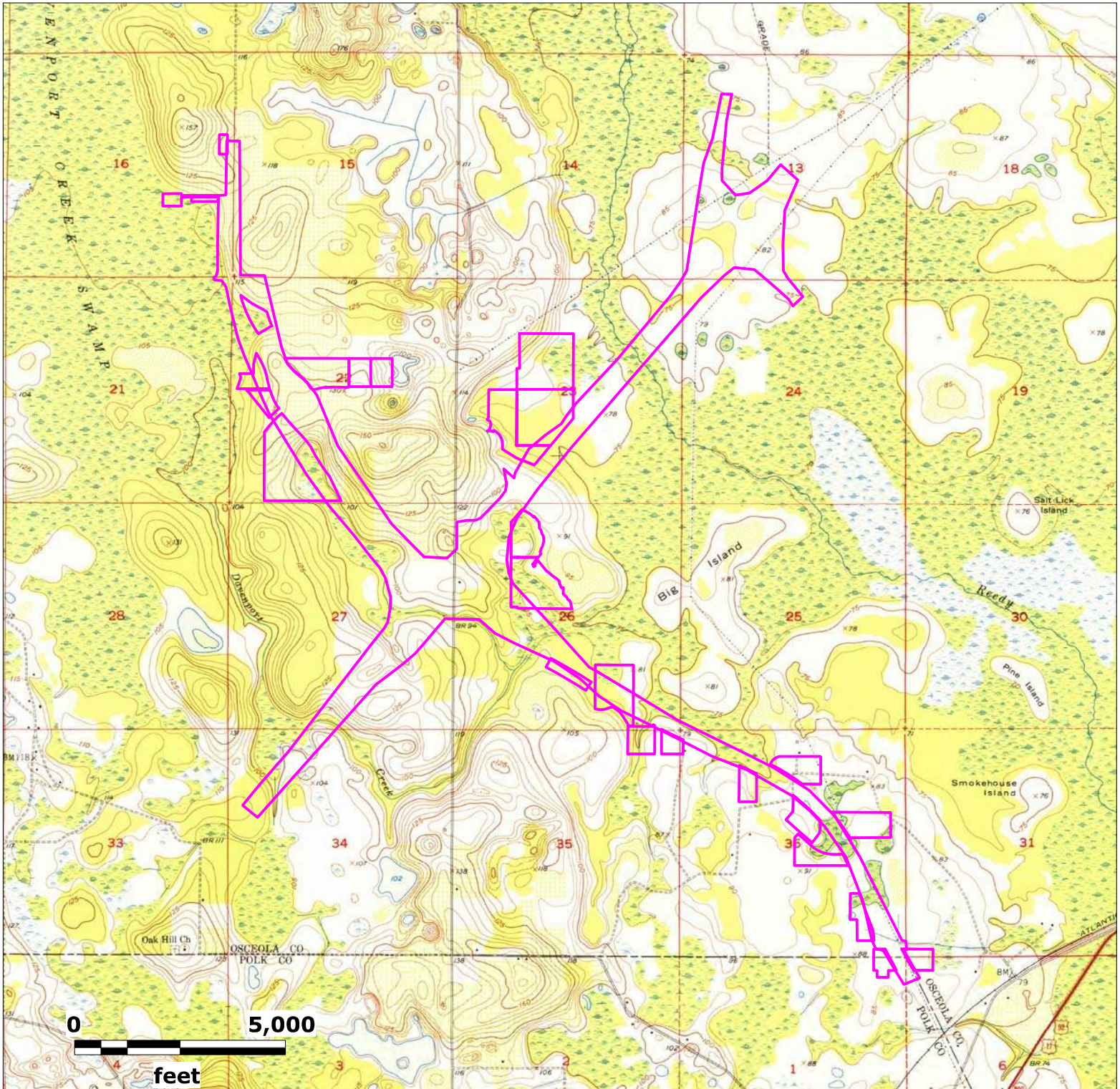
Thank you for choosing Environmental Data Management, Inc. The following report contains a series of Historical Topographic Maps for the following location:

**Poinciana Parkway Extension-Mainline & Pond Sites
Osceola/Polk Counties, Florida**

These maps were obtained from the digital map collections of the US Geological Survey. Only 7.5 Minute Series maps were selected for this report.

Should you have any questions regarding this report or our service, please feel free to contact us. We appreciate the opportunity to be of service to you and look forward to working with you in the future.

ENVIRONMENTAL DATA MANAGEMENT, INC.



Source: USGS Digital Raster Graphic (DRG)

Map Scale and Property Boundaries are Approximate

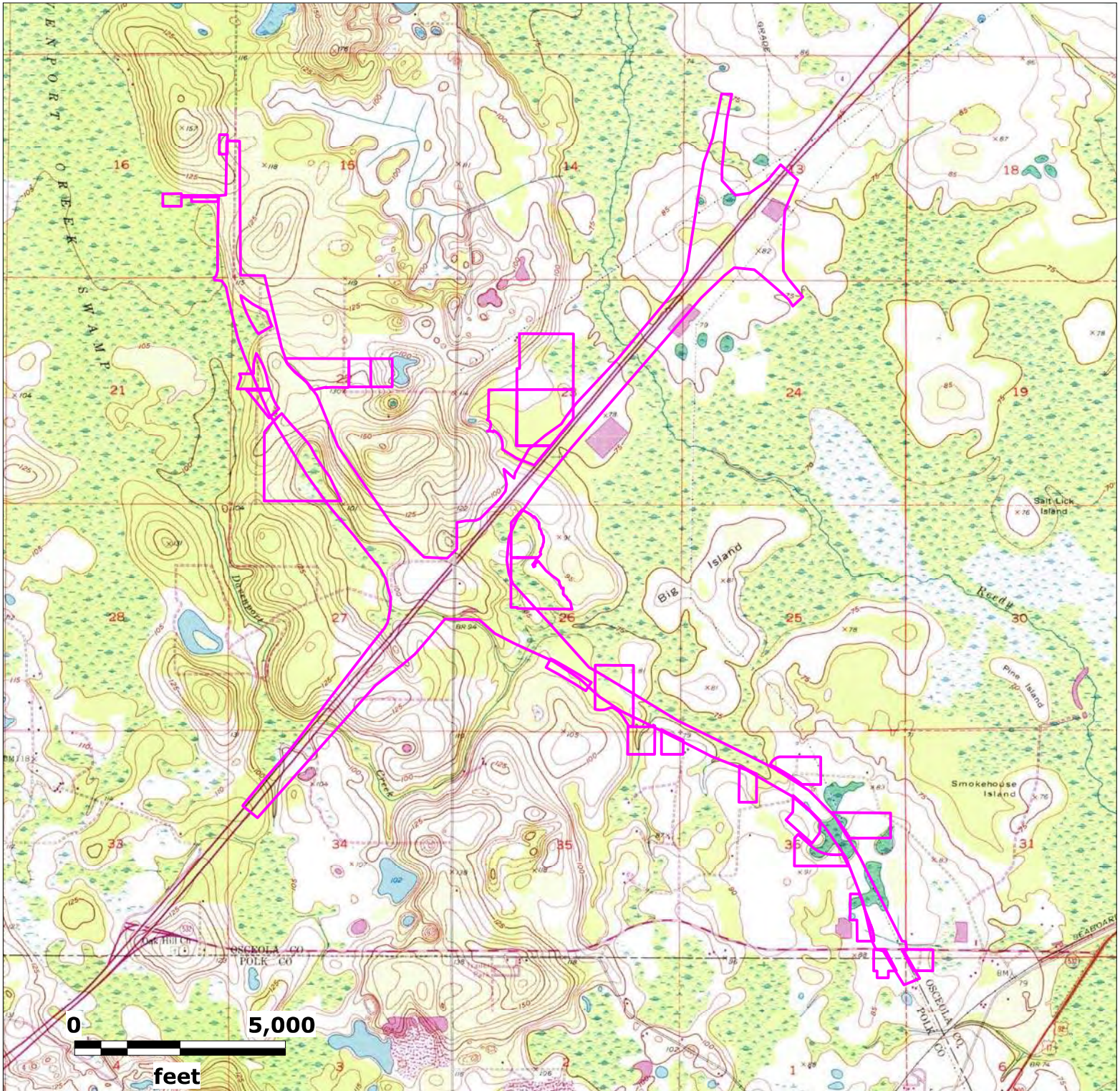
Subject Property

Poinciana Parkway Extension-
Mainline & Pond Sites
Osceola/Polk Counties, Florida

Lat (DMS): 28 18' 49.0536"
Lon (DMS): -81 34' 16.1544"

EDM Job No: 26147
June 8, 2022

Approximate Site Location



Source: USGS Digital Raster Graphic (DRG)

Map Scale and Property Boundaries are Approximate

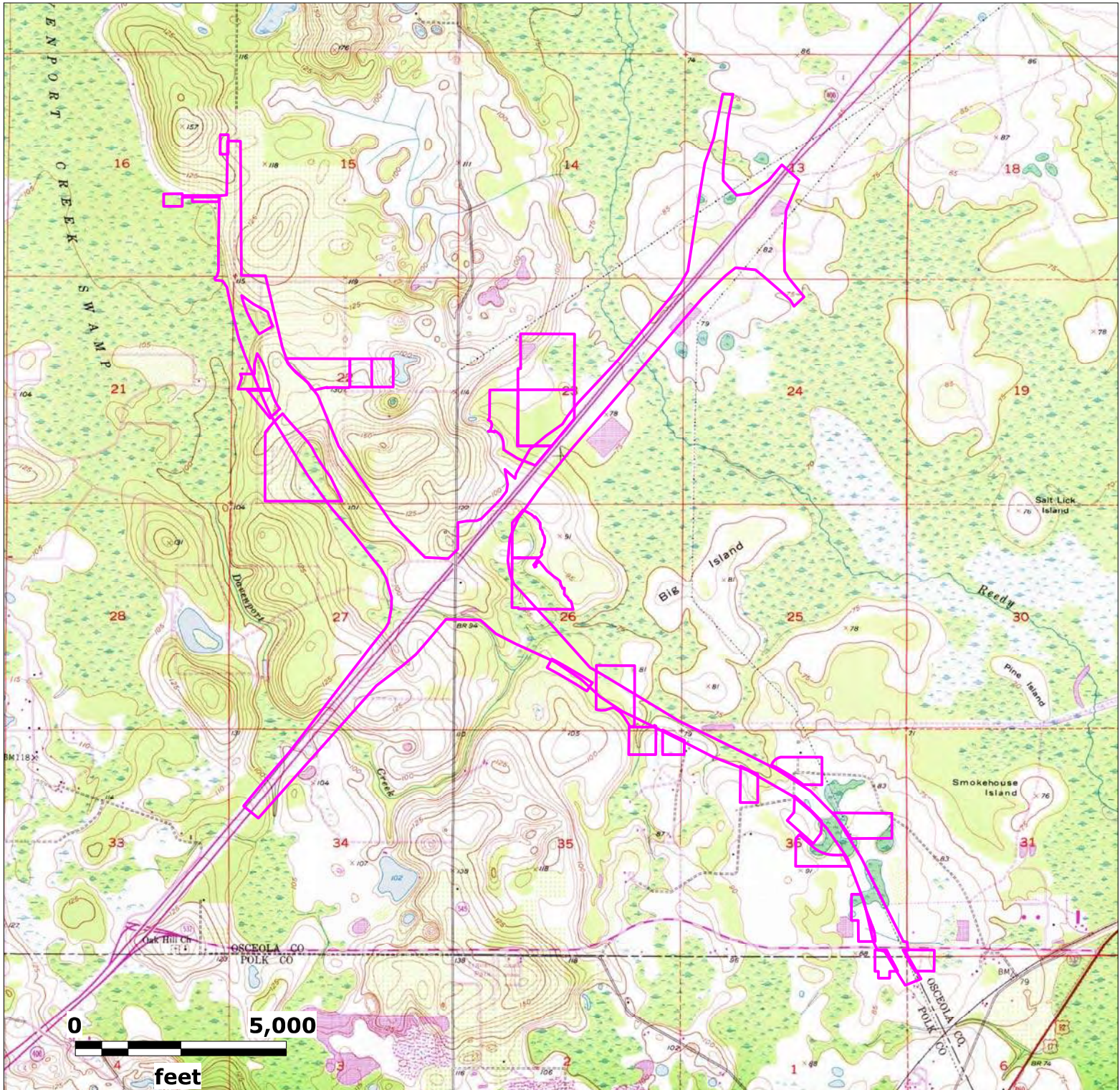
Subject Property

Poinciana Parkway Extension-
Mainline & Pond Sites
Osceola/Polk Counties, Florida

Lat (DMS): 28 18' 49.0536"
Lon (DMS): -81 34' 16.1544"

EDM Job No: 26147
June 8, 2022

Approximate Site Location



Source: USGS Digital Raster Graphic (DRG)

Map Scale and Property Boundaries are Approximate

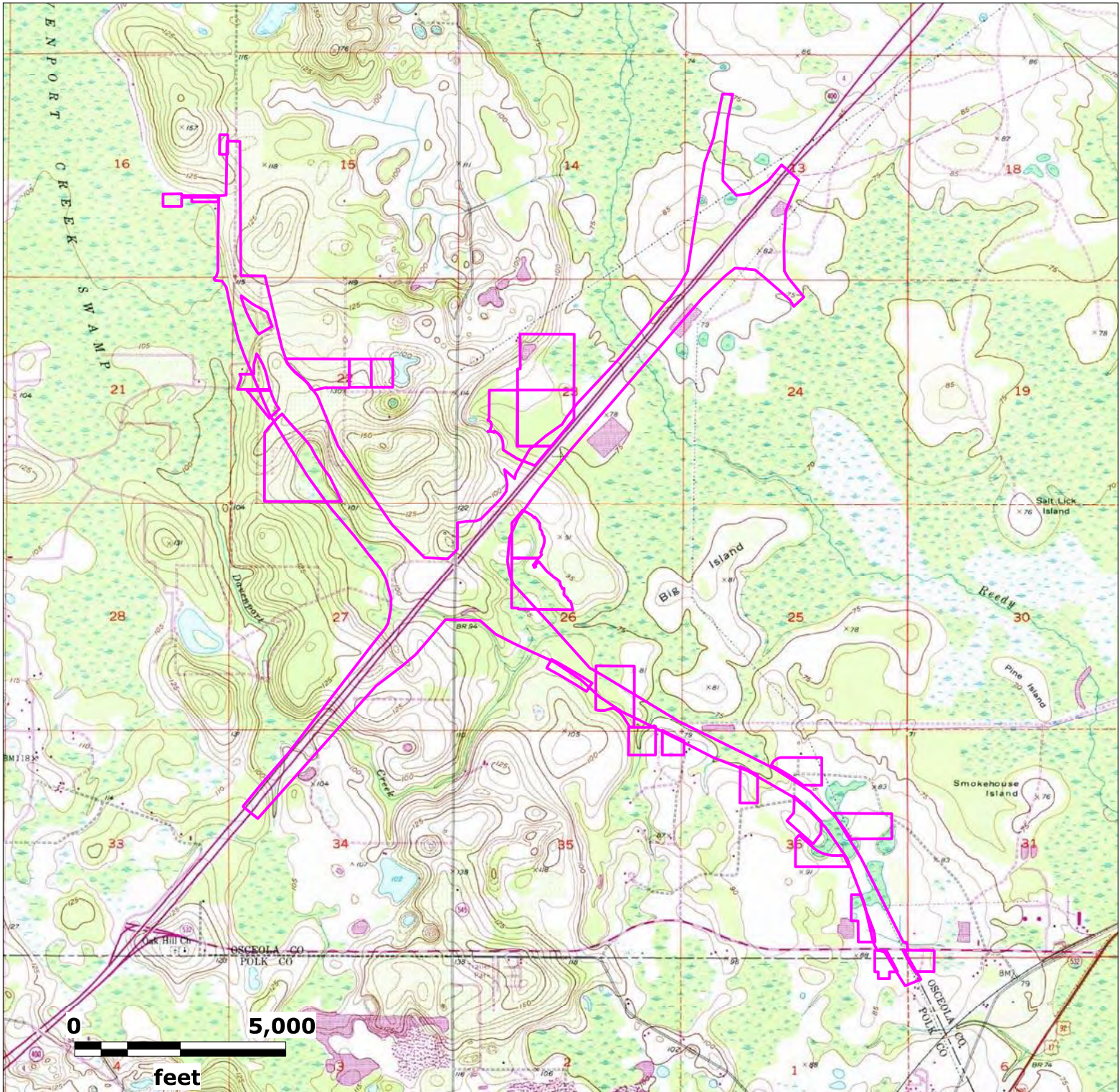
Subject Property

Poinciana Parkway Extension-
Mainline & Pond Sites
Osceola/Polk Counties, Florida

Lat (DMS): 28 18' 49.0536"
Lon (DMS): -81 34' 16.1544"

EDM Job No: 26147
June 8, 2022

Approximate Site Location



Source: USGS Digital Raster Graphic (DRG)


Map Scale and Property Boundaries are Approximate

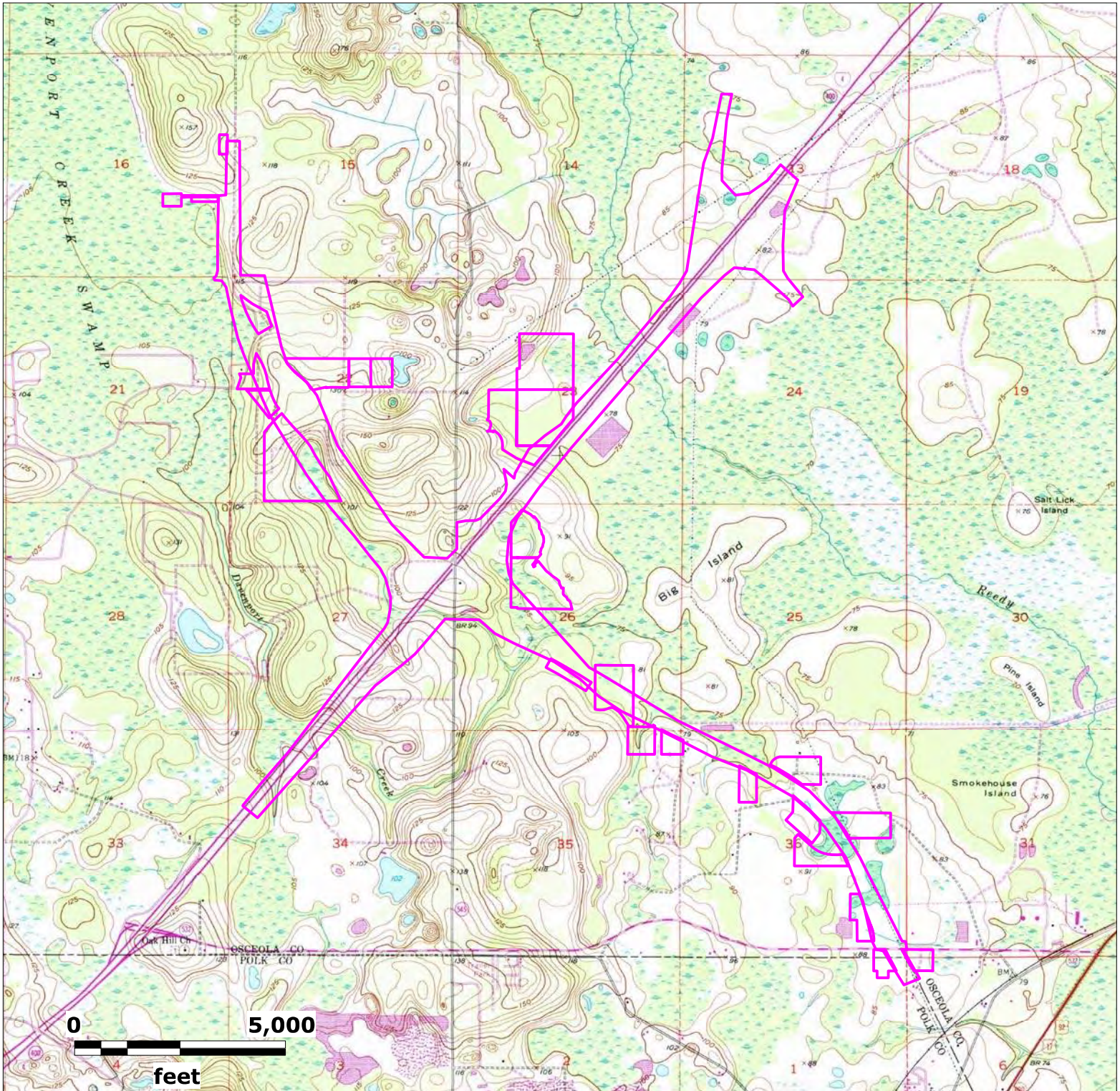
Subject Property

Poinciana Parkway Extension-
Mainline & Pond Sites
Osceola/Polk Counties, Florida

Lat (DMS): 28 18' 49.0536"
Lon (DMS): -81 34' 16.1544"

EDM Job No: 26147
June 8, 2022

 Approximate Site Location



Source: USGS Digital Raster Graphic (DRG)


Map Scale and Property Boundaries are Approximate

Subject Property

Poinciana Parkway Extension-
Mainline & Pond Sites
Osceola/Polk Counties, Florida

Lat (DMS): 28 18' 49.0536"
Lon (DMS): -81 34' 16.1544"

EDM Job No: 26147
June 8, 2022

 Approximate Site Location

APPENDIX D REGULATORY DATABASE REPORT

Environmental Data Report

Custom Radius Research

Subject Property:

Poinciana Parkway Extension-Mainline

Osceola/Polk Counties, Florida

Prepared For:

Tierra Inc

7351 Temple Terrace Hwy

Tampa, FL 33637

Prepared By:



Environmental Data Management, Inc.

2840 West Bay Drive, Suite 208

Belleair Bluffs, Florida 33770

June 06, 2022



June 06, 2022

Chris Garth
Tierra Inc
7351 Temple Terrace Hwy
Tampa, FL 33637

Subject: **Custom Radius Research - EDM Project #26147**

Dear Mr. Garth

Thank you for choosing Environmental Data Management, Inc. The following report provides the results of our environmental data research that you requested for the following location:

Poinciana Parkway Extension-Mainline

Osceola/Polk Counties, Florida

The following is a summary of the components contained within this report:

- **Executive Summary** –lists the databases that were searched for this report, the search distance criteria and the number of sites identified for each database.
- **Map of Study Area**– street map showing the location of the Subject Property and any regulatory listed sites identified within the search criteria.
- **Site Summary Table** –displays the Map ID number, Permit or Registration number, Name/Address and the Government Database(s) for the identified regulatory listed sites.
- **Detail Reports** – data detail for each database record identified.
- **Proximal Records Table** – a listing of potentially relevant sites identified just beyond the search criteria.
- **Non-Mapped Records Table** - lists those government records that do not contain sufficient address information to plot within our GIS system, but may still exist within your study area.
- **Addl Maps (where applicable)** – includes Recent Aerial Photo, USGS Topographic maps, FEMA Floodplain & NWI Wetland Map, map of statewide American Indian Lands and our Environmental Impact Areas map, showing the location of suspect sites such as NPL/STNPL, Brownfields, FUDS, etc.... Our Florida well data report is also include with the Standard and Comprehensive formats.
- **Agency List Descriptions** – defines the regulatory databases included in this report along with the dates that each database was last updated by the respective agency and EDM.

At EDM we take great pride in our work, and continually strive to provide you with the most accurate and thorough research service available. This report is only intended as a means to assist in identifying locations that may pose an environmental concern relative to the property under evaluation. Its use is not intended to replace the need for a complete environmental assessment or regulatory file review, but rather as a supplement to the overall evaluation.

Thank you again for selecting EDM as your data research provider. Should you have any questions regarding this report or our service, please feel free to contact us. We appreciate the opportunity to be of service to you and look forward to working with you in the future.

ENVIRONMENTAL DATA MANAGEMENT, INC.

Executive Summary

Report Date: 6/6/2022

Client Information	Project Information
Tierra Inc 7351 Temple Terrace Hwy Tampa, FL 33637 Client Job No: 6511-20-202-001E Client P.O. No:	Custom Radius Research Poinciana Parkway Extension-Mainline Osceola/Polk Counties, Florida EDM Job No# 26147

The following table displays the databases that were included in the research provided and the number of records identified for each database. Site distance values indicated in this report are measured from the boundary of the Subject Property. The absence of records in this table and the Site Summary Tables indicates that our research found no regulated sites within the specified search distances from the Subject Property.

AGENCY DATABASES RESEARCHED	Total # Found
EPA DATABASES	
National Priorities List(NPL)	0
SEMS Active Site Inventory List(SEMSACTV)	0
Comp Env Resp, Compensation & Liability Info Sys List(CERCLIS)	0
SEMS Archived Site Inventory List(SEMSARCH)	0
Archived Cerclis Sites(NFRAP)	0
RCRIS Handlers with Corrective Action(CORRACTS)	0
Tribal Tanks List(TRIBLTANKS)	0
Tribal Lust List(TRIBLLUST)	0
Brownfields Management System(USBRWNFLDS)	0
Institutional and/or Engineering Controls(USINSTENG)	0
NPL Liens List(NPLLIENS)	0

*** Disclaimer ***

Please understand that the regulatory databases we utilize were not originally intended for our use, but rather for the source agency's internal tracking of sites for which they have jurisdiction or other interest. As a result of this difference in intended use, their data is frequently found to be incomplete or inaccurate, and is less than ideal for our use. Our report is not to be relied upon for any purpose other than to "point" at approximate locations where further evaluation may be warranted. No conclusion can be based solely upon our report. Rather, our report should be used as a first step in directing your attention at potential problem areas, which should be followed up by site inspections, interviews with relevant personnel, regulatory file review and other means as specified in the ASTM Standard E 1527-13. Readers proceed at their own risk in relying upon this data, in whole or in part, for use within any evaluation. More detailed language with regard to such limitations and our Terms and Conditions may be found on our website at edm-net.com.



AGENCY DATABASES RESEARCHED	Total # Found
FDEP DATABASES	
State NPL Equivalent(STNPL)	0
State CERCLIS/SEMS Equivalent(STCERC)	0
Solid Waste Facilities List_Landfills(SLDWST_LF)	0
Leaking Underground Storage Tanks List(LUST)	0
Underground/Aboveground Storage Tanks(TANKS)	4
State Designated Brownfields(BRWNFLDS)	0
Voluntary Cleanup List(VOLCLNUP)	0
Institutional and/or Engineering Controls(INSTENG)	0
Dry Cleaners List(DRY)	0
Solid Waste Facilities List_Non-Landfills(SLDWST_NLF)	0

*** Disclaimer ***

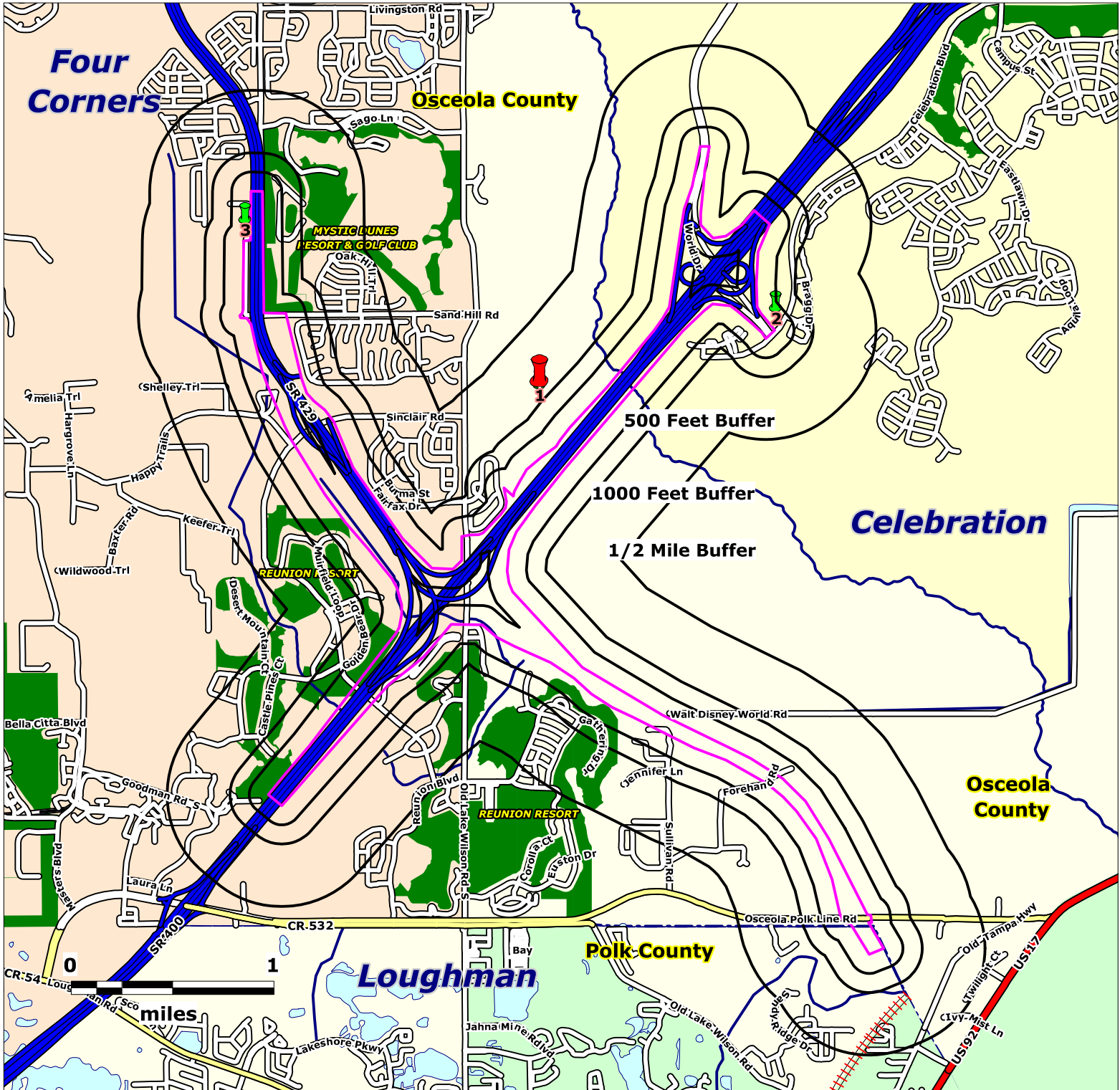
Please understand that the regulatory databases we utilize were not originally intended for our use, but rather for the source agency's internal tracking of sites for which they have jurisdiction or other interest. As a result of this difference in intended use, their data is frequently found to be incomplete or inaccurate, and is less than ideal for our use. Our report is not to be relied upon for any purpose other than to "point" at approximate locations where further evaluation may be warranted. No conclusion can be based solely upon our report. Rather, our report should be used as a first step in directing your attention at potential problem areas, which should be followed up by site inspections, interviews with relevant personnel, regulatory file review and other means as specified in the ASTM Standard E 1527-13. Readers proceed at their own risk in relying upon this data, in whole or in part, for use within any evaluation. More detailed language with regard to such limitations and our Terms and Conditions may be found on our website at edm-net.com.



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Source: US Census Bureau TIGER Files

Map Scale and Property Boundaries are Approximate

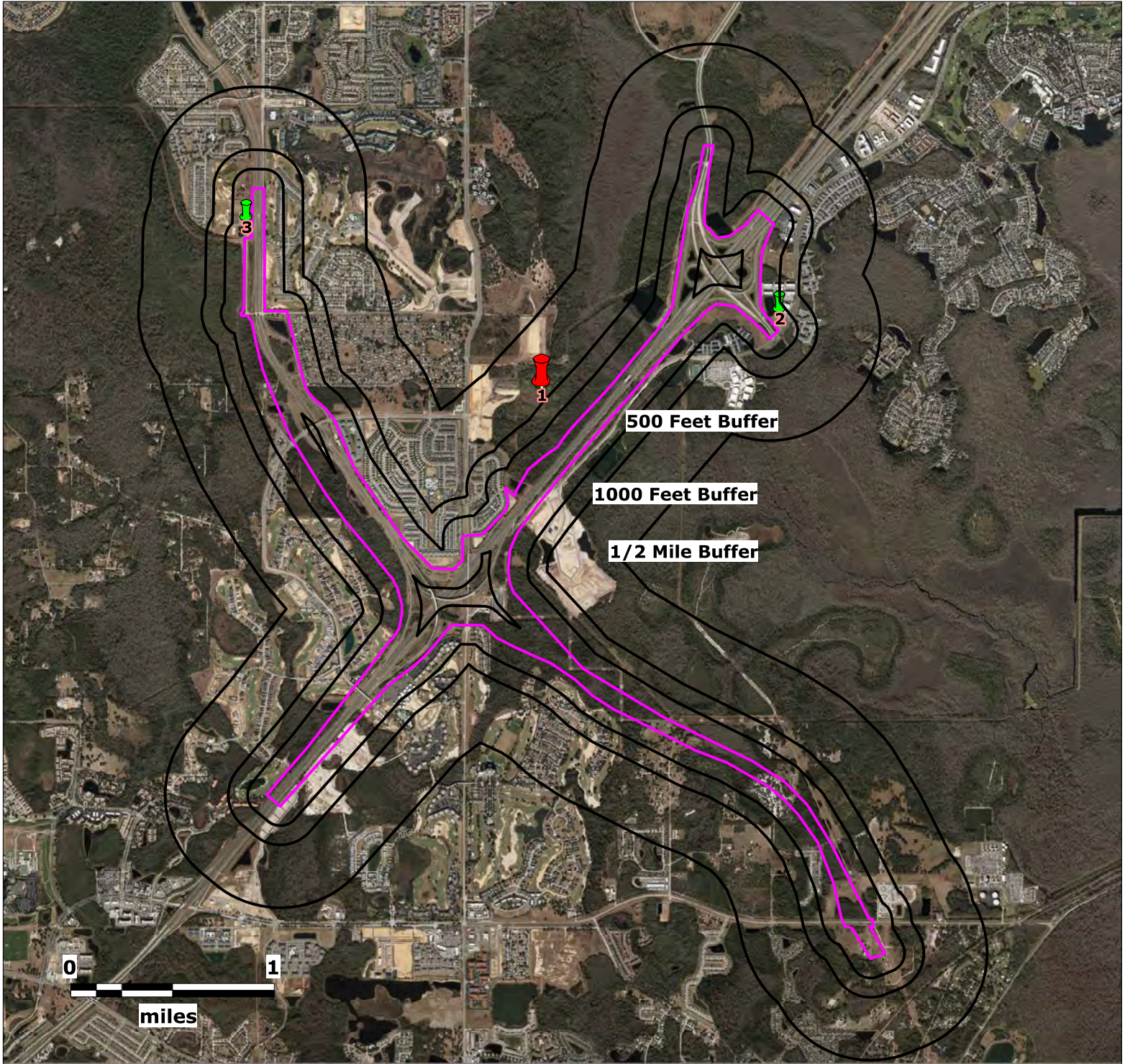
Subject Property

Poinciana Parkway Extension-Mainline
Osceola/Polk Counties, Florida

Lat (DMS): 28 18' 49.0536"
Lon (DMS): -81 34' 16.1544"

EDM Job No: 26147
June 6, 2022

- Approximate Site Boundary
- NPL, STNPL, CERCLIS, SEMSACTV, SEMSARCH and SLDWST_LF sites - 1/2 Mile
- SLDWST_NLF sites - 1000 Feet
- NPLLIENS, CORRACTS, NFRAP, STCERC, LUST, BRWNFLDS, VOLCLNUP, DRY, TANKS & INSTENG sites - 500 Feet



Source: Florida Department of Transportation





Map Scale and Property Boundaries are Approximate

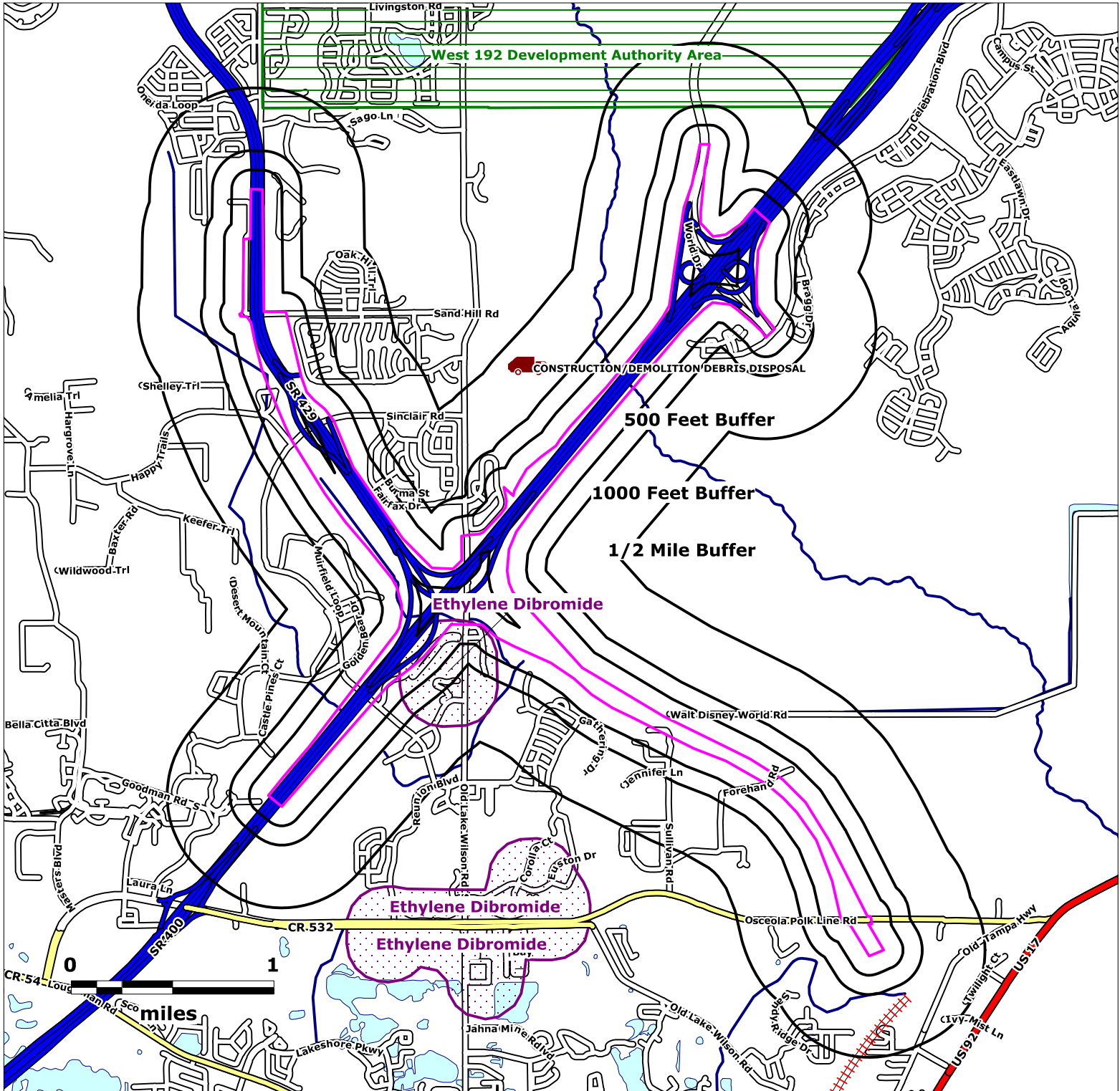
Subject Property

Poinciana Parkway Extension-Mainline
Osceola/Polk Counties, Florida

Lat (DMS): 28 18' 49.0536"
Lon (DMS): -81 34' 16.1544"

EDM Job No: 26147
June 6, 2022

-  Approximate Site Boundary
-  NPL, STNPL, CERCLIS, SEMSACTV, SEMSARCH and SLDWST_LF sites - 1/2 Mile
-  SLDWST_NLF sites - 1000 Feet
-  NPLLIENS. CORRACTS, NFRAP, STCERC, LUST, BRWNFLDS, VOLCLNUP, DRY, TANKS & INSTENG sites - 500 Feet



Subject Property

Poinciana Parkway Extension-Mainline
Osceola/Polk Counties, Florida

Lat (DMS): 28 18' 49.0536"
Lon (DMS): -81 34' 16.1544"

EDM Job No: 26147
June 6, 2022

	FDEP Brownfield Areas		Formerly Used Defense Sites FUDS		Approximate Site Boundary
	FDEP Brownfield Sites		FUDS Munitions Response Areas		
	USEPA NPL & FDEP STNPL Sites		FDEP Cattle Dipping Vat		
	FDEP Delineated GW Contamination		FDEP Solid Waste Sites		Institutional Controls

ENVIRONMENTAL DATA MANAGEMENT

Custom Radius Research

Site Summary Table

Report Date: 6/6/2022

Page 1 of 1

MapID Prgm List	Fac ID No	Site Dist (mi)	Site Elev (ft)	Elev vs Sub Prop	Site Name	Site Address
1 SLDWST_LF	26040	0.23	119.21	Higher	BEST DIVERSIFIED INC(AKA: P&D)	945 OLD LAKE WILSON RD KISSIMMEE, FL 34747
2 TANKS	9816185	0.05	77.96	Higher	7-ELEVEN STORE #37563	1730 CELEBRATION BLVD KISSIMMEE, FL 34747
3 TANKS	9100608.	0.03	119.04	Higher	SAND HILL WTP	3211 SAND HILL RD KISSIMMEE, FL
TANKS	9103166	0.03	119.04	Higher	KISSIMMEE CITY-SAND HILL WWTP	8000 SAND HILL RD KISSIMMEE, FL 34747
TANKS	9103166.	0.03	119.04	Higher	KISSIMMEE CITY-WWTP	300 SAND HILL RD KISSIMMEE, FL



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FDEP SOLID WASTE FACILITIES LIST LANDFILL SITES

(SLDWST_LF)

Report Date: 6/6/2022

SLDWST Page 1 of 1

FACILITY ID, NAME AND LOCATION:

26040
BEST DIVERSIFIED INC(AKA: P&D)
945 OLD LAKE WILSON RD
KISSIMMEE, FL 34747

DISTRICT CD
COUNTY OSCEOLA
SEC/TWN/RN 23 /25S /27E
AGENCY LAT: 28:17:58.23
AGENCY LON: 81:35:7.92

MAP ID NUMBER:

Dist (Miles): 0.23

Direction:

Elev (Ft): 119.21

Elev vs Sub Prop: Higher

1

S
L
D
W
S
T

RESP AUTHORITY:

SITE CONTACT:

LAND OWNER:

FACILITY CLASS: 540/CONSTRUCTION/DEMOLITION DEBRIS DISPOSAL

CLASS STATUS: NFA,NO FURTHER ACTION (F)

[FDEP INFORMATION PORTAL ON LINE DOCUMENTS](#) (May Not Be Available For All Records)

[FDEP INFORMATION PORTAL ON LINE REPORTS](#) (May Not Be Available For All Records)



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FDEP STORAGE TANKS REPORT

(TANKS)

Report Date: 6/6/2022

TANKS Page 1 of 1

FACILITY ID NUMBER, NAME AND LOCATION

9816185
 7-ELEVEN STORE #37563
 1730 CELEBRATION BLVD
 KISSIMMEE, FL 34747

OWNERSHIP INFORMATION

7-ELEVEN INC - GASOLINE CO
 PO BOX 711 ATTN: MGR-FL REGION
 Dallas, TX 75221
CONTACT: DAVID PETERSEN | MILEI AV/407403299
SITE COUNTY: 49 OSCEOLA
SITE LAT/LON (AGCY): /

MAP ID NUMBER:

Dist (Miles): 0.05
Direction:
Elev (Ft): 77.96
Elev vs Sub Prop: Higher

2

TANKS

[FDEP INFORMATION PORTAL ON LINE DOCUMENTS](#) (May Not Be Available For All Records)

FAC STATUS: OPEN

FAC TYPE: Retail Station

TANK #: **TANK VOL(GALS):**

INST.DATE: **TANK CONTENTS:**

TANK POSITION:

TANK STATUS (as of...)

1 20000

01-Apr-2018 Ethanol E10

UNDERGROUND

IN SERVICE 01-Apr-2018

CONSTRUCTION TYPE: EIMNOP

FIBERGLASS/DOUBLE WALL/SPILL CONTAINMENT BUCKET/FLOW SHUT OFF/TIGHT FILL/LEVEL GAUGES/ALARMS

PIPING TYPE: CFJK

FIBERGLASS/DOUBLE WALL/PRESSURIZED PIPING SYSTEM/DISPENSER LINERS

LEAK MONITORING: 135FHK

CONTINUOUS ELECTRONIC SENSING/ELECTRONIC MONITOR PIPE SUMPS/ELECTRONIC MONITOR DISPENSER LINERS/MONITOR DBL WALL TANK SPACE/MECHANICAL LINE LEAK DETECTOR/MONITOR DBL WALL PIPE SPACE

TANK #: **TANK VOL(GALS):**

INST.DATE: **TANK CONTENTS:**

TANK POSITION:

TANK STATUS (as of...)

2 20000

01-Apr-2018 Vehicular Diesel

UNDERGROUND

IN SERVICE 01-Apr-2018

CONSTRUCTION TYPE: EILMNOP

FIBERGLASS/DOUBLE WALL/COMPARTMENTED/SPILL CONTAINMENT BUCKET/FLOW SHUT OFF/TIGHT FILL/LEVEL GAUGES/ALARMS

PIPING TYPE: CFJK

FIBERGLASS/DOUBLE WALL/PRESSURIZED PIPING SYSTEM/DISPENSER LINERS

LEAK MONITORING: 135FHK

CONTINUOUS ELECTRONIC SENSING/ELECTRONIC MONITOR PIPE SUMPS/ELECTRONIC MONITOR DISPENSER LINERS/MONITOR DBL WALL TANK SPACE/MECHANICAL LINE LEAK DETECTOR/MONITOR DBL WALL PIPE SPACE



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FDEP STORAGE TANKS REPORT

(TANKS)

Report Date: 6/6/2022

TANKS Page 2 of 3

FACILITY ID NUMBER, NAME AND LOCATION

9103166
 KISSIMMEE CITY-SAND HILL WWTP
 8000 SAND HILL RD
 KISSIMMEE, FL 34747

OWNERSHIP INFORMATION

TOHOPEKALIGA WATER AUTHORI
 951 MARTIN LUTHER KING BLVD ATT
 Kissimmee, FL 34741
CONTACT: RICHARD HAYNES/4079445000
SITE COUNTY: 49 OSCEOLA
SITE LAT/LON (AGCY): 28 18 35 / 81 36 32

MAP ID NUMBER:

Dist (Miles): 0.03
Direction:
Elev (Ft): 119.04
Elev vs Sub Prop: Higher

3

TANKS

[FDEP INFORMATION PORTAL ON LINE DOCUMENTS](#) (May Not Be Available For All Records)

FAC STATUS: OPEN

FAC TYPE: Local Government

TANK #: 1 **TANK VOL(GALS):** 2000

INST.DATE: 01-Oct-1990 **TANK CONTENTS:** Emerg Generator Diesel

TANK POSITION: ABOVEGROUND

TANK STATUS (as of...) REMOVED FROM SITE 01-Sep-2005

CONSTRUCTION TYPE: C

STEEL

PIPING TYPE:

LEAK MONITORING: Z

DEP APPROVED MONITORING

TANK #: 2 **TANK VOL(GALS):** 6000

INST.DATE: 01-Jul-1998 **TANK CONTENTS:** Emerg Generator Diesel

TANK POSITION: ABOVEGROUND

TANK STATUS (as of...) IN SERVICE 01-Jul-1998

CONSTRUCTION TYPE: CMPR

STEEL/SPILL CONTAINMENT BUCKET/LEVEL GAUGES/ALARMS/DOUBLE WALL-TANK JACKET

PIPING TYPE: BM

STEEL/GALVANIZED METAL/DOUBLE WALL-PIPE JACKET

LEAK MONITORING: Z

DEP APPROVED MONITORING

TANK #: 3 **TANK VOL(GALS):** 5000

INST.DATE: 01-Sep-2005 **TANK CONTENTS:** Emerg Generator Diesel

TANK POSITION: ABOVEGROUND

TANK STATUS (as of...) IN SERVICE 01-Sep-2005

CONSTRUCTION TYPE: CKP

STEEL/AST CONTAINMENT/LEVEL GAUGES/ALARMS

PIPING TYPE: AB

ABV, NO SOIL CONTACT/STEEL/GALVANIZED METAL

LEAK MONITORING: FQ

MONITOR DBL WALL TANK SPACE/VISUAL INSPECTION OF ASTS



FDEP STORAGE TANKS REPORT

(TANKS)

Report Date: 6/6/2022

TANKS Page 3 of 3

FACILITY ID NUMBER, NAME AND LOCATION

9103166. --HISTORICAL ENTRY--
KISSIMMEE CITY-WWTP
300 SAND HILL RD
KISSIMMEE, FL

OWNERSHIP INFORMATION

CONTACT: /
SITE COUNTY: 49 OSCEOLA
SITE LAT/LON (AGCY): /

MAP ID NUMBER:

3

Dist (Miles): 0.03
Direction:
Elev (Ft): 119.04
Elev vs Sub Prop: Higher

T
A
N
K
S

[FDEP INFORMATION PORTAL ON LINE DOCUMENTS](#) (May Not Be Available For All Records)

FAC STATUS: OPEN

FAC TYPE: H / Local Government

TANK #: **TANK VOL(GALS):**

INST.DATE:

TANK CONTENTS:

TANK POSITION:

TANK STATUS (as of...)

CONSTRUCTION TYPE:

PIPING TYPE:

LEAK MONITORING:



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ENVIRONMENTAL DATA MANAGEMENT

Custom Radius Research Proximal Site Summary Table

This table includes mapped sites whose plotted coordinates fall just outside of the ASTM or client defined research distance but whose property boundaries may still extend into the search area. These sites are typically large commercial or industrial tracts that may merit inclusion in the evaluation process. Detail data reports on any of these sites may be requested and will be sent as an addendum to this report at no additional cost.

Report Date: 6/6/2022

Page 1 of 1

MapID Prgm List	Fac ID No	Site Dist (mi)	Site Elev (ft)	Elev vs Sub Prop	Site Name	Site Address
1A						
LUST	9100367	0.15	86.39	Higher	HERMAN J HEIDRICH & SONS INC	1261 S OLD LAKE WILSON KISSIMMEE, FL 34747
LUST	9100367.	0.15	86.39	Higher	HERMAN J HEIDRICH & SONS INC	1251 S OLD LAKE WILSON KISSIMMEE, FL
TANKS	9100367	0.15	86.39	Higher	HERMAN J HEIDRICH & SONS INC	1261 S OLD LAKE WILSON KISSIMMEE, FL 34747
TANKS	9100367.	0.15	86.39	Higher	HERMAN J HEIDRICH & SONS	1251 S OLD LAKE WILSON KISSIMMEE, FL
TANKS	9802294	0.15	86.39	Higher	MAGNOLIA CREEK EAST	1261 S OLD LAKE WILSON RD DAVENPORT, FL 33837
VOLCLNUP	301286	0.15	86.39	Higher	MAGNOLIA CREEK EAST	S LAKE WILSON RD INTERCESSION CITY, FL
2A						
VOLCLNUP	ERIC_12895	0.15	0.00	-	MAGNOLIA CREEK EAST	S LAKE WILSON RD INTERCESSION CITY, FL
3A						
STCERC	ERIC_9113CLN	0.23	119.21	Higher	BEST DIVERSIFIED INC./ P & D LANDFILL (CDS)	945 OLD LAKE WILSON ROAD KISSIMMEE, FL 34746
TANKS	9700134	0.23	119.21	Higher	P&D LANDFILL	945 OLD LAKE WILSON RD KISSIMMEE, FL 34746
VOLCLNUP	ERIC_9113	0.23	119.21	Higher	BEST DIVERSIFIED INC./ P & D LANDFILL (CDS)	945 OLD LAKE WILSON ROAD KISSIMMEE, FL
4A						
VOLCLNUP	301420	0.25	80.75	Higher	PROGRESS ENERGY LAKE WILSON SUBSTATION	1001 N. OLD LAKE WILSON ROAD BUENA VISTA, FL
VOLCLNUP	ERIC_12920	0.25	80.75	Higher	PROGRESS ENERGY LAKE WILSON SUBSTATION	1001 N. OLD LAKE WILSON ROAD BUENA VISTA, FL
5A						
TANKS	9813072	0.14	78.91	Higher	CELEBRATION BLVD LS #9	1700 CELEBRATION BLVD KISSIMMEE, FL 34747
6A						
LUST	9809509	0.11	83.17	Higher	PATCO MONTGOMERY 2006-71-6356Z	I-4 EB @ MM62 CELEBRATION, FL 34747
STCERC	9809509CLN	0.11	83.17	Higher	PATCO MONTGOMERY	2006-71-6356Z I-4 EB @ MM62 CELEBRATION, FL 34747
TANKS	9809509	0.11	83.17	Higher	PATCO MONTGOMERY 2006-71-6356Z	I-4 EB @ MM62 CELEBRATION, FL 34747



ENVIRONMENTAL DATA MANAGEMENT

Custom Radius Research Non-Mapped Records Summary Table

This table is a listing of database records that have not been plotted within our mapping system. Detail data reports on any of these sites may be requested and will be sent as an addendum to this report at no additional cost.

Report Date: 6/6/2022

Page 1 of 1

Prgm List Fac ID No	Site Name	Site Address



Agency List Descriptions

USEPA and State Databases are updated on a quarterly basis. Supplemental Databases are updated on an annual basis.

Florida Department of Environmental Protection (FDEP)

State Designated Brownfields(BRWNFLDS)

The FDEP Brownfields database contains a listing of State Designated Brownfield Areas and Brownfield Sites. Brownfields are typically defined as abandoned, idled or underused industrial and commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination.

Agency File Date: 5/3/2022

Received by EDM: 5/3/2022

EDM Database Updated: 5/3/2022

Dry Cleaners List(DRY)

The FDEP Dry Cleaning Facilities List is comprised of data from the FDEP Storage Tank and Contamination Monitoring (STCM) database and the Drycleaning Solvent Cleanup Program- Priority Ranking List. It contains a listing of those Dry Cleaning sites (and suspected historical Dry Cleaning sites) who have registered with the FDEP and/or have applied for the Dry Cleaning Solvent Cleanup Program.

Agency File Date: 4/3/2022

Received by EDM: 4/3/2022

EDM Database Updated: 4/3/2022

Institutional and/or Engineering Controls(INSTENG)

The FDEP Institutional Controls Registry Database (INSTENG) contains sites that have had Institutional and/or Engineering Controls implemented to regulate exposure to environmental hazards

Agency File Date: 4/1/2022

Received by EDM: 4/3/2022

EDM Database Updated: 4/3/2022

Leaking Underground Storage Tanks List(LUST)

The FDEP LUST list identifies facilities and/or locations that have notified the FDEP of a possible release of contaminants from petroleum storage systems. This Report is generated from the FDEP Storage Tank and Contamination Monitoring Database (STCM).

Agency File Date: 4/14/2022

Received by EDM: 4/14/2022

EDM Database Updated: 4/14/2022

Solid Waste Facilities List_Landfills(SLDWST_LF)

The SLDWST_LF list identifies locations that have conducted solid waste landfill activities as determined by the applicable FDEP Facility Classifications. Sites listed with "##" after the Facility ID Number are historical locations, obtained from documents on record at local agencies.

Agency File Date: 4/4/2022

Received by EDM: 4/6/2022

EDM Database Updated: 4/7/2022

Solid Waste Facilities List_Non-Landfills(SLDWST_NLF)

The SLDWST_NLF list identifies locations that have conducted solid waste handling activities other than landfilling, as determined by the applicable FDEP Facility Classifications, such as Transfer Stations, Disaster Debris Staging Areas and sites handling Bio-Hazardous wastes. Sites listed with "##" after the Facility ID Number are historical locations, obtained from documents on record at local agencies.

Agency File Date: 4/4/2022

Received by EDM: 4/6/2022

EDM Database Updated: 4/7/2022

State CERCLIS/SEMS Equivalent(STCERC)

The STCERC list is compiled from the FDEP Site Investigation Section list, the Florida SITES list(historical) and the FDEP Cleanup Sites list. These sites are being assessed and/or cleaned up as a result of identified or suspected contamination from the release of hazardous substances. The FDEP Cleanup Sites list programs include: Brownfields, Petroleum, EPA Superfund (CERCLA), Drycleaning, Responsible Party Cleanup, State Funded Cleanup, State Owned Lands Cleanup and Hazardous Waste Cleanup.

Agency File Date: 2/18/2022

Received by EDM: 2/18/2022

EDM Database Updated: 2/18/2022

State NPL Equivalent(STNPL)

The FDEP State Funded Cleanup list contains facilities and/or locations where there are no viable responsible parties; the site poses an imminent hazard; and the site does not qualify for Superfund or is a low priority for EPA. Remedial efforts at these sites are currently being addressed through State funded cleanup action.

Agency File Date: 2/18/2022

Received by EDM: 2/18/2022

EDM Database Updated: 2/18/2022

Underground/Aboveground Storage Tanks(TANKS)

The FDEP TANKS list contains sites with registered aboveground and underground storage tanks containing regulated petroleum products.

Agency File Date: 3/15/2022

Received by EDM: 3/15/2022

EDM Database Updated: 4/1/2022

Voluntary Cleanup List(VOLCLNUP)

The VOLCLNUP List is derived from the FDEP Brownfields Site Rehabilitation Agreement (BSRA) database, the FDEP ERIC Waste Cleanup database and the FDEP Office of Waste Cleanup Responsible Party Sites database (not available as of June 2021). The VOLCLNUP List identifies sites that have signed an agreement to Voluntarily cleanup a site and/or sites where legal responsibility for site rehabilitation exists pursuant to Florida Statutes and is being conducted either voluntarily or pursuant to enforcement activity.

Agency File Date: 4/1/2022

Received by EDM: 4/2/2022

EDM Database Updated: 4/2/2022

United States Environmental Protection Agency (EPA)

Comp Env Resp, Compensation & Liability Info Sys List(CERCLIS)

The US EPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database tracks potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are proposed to be on the NPL, are on the NPL and sites that are in the screening and assessment phase for possible inclusion on the NPL. The CERCLIS database was retired in November of 2013 and has been replaced by the Superfund Enterprise Management System (SEMS).

Agency File Date: 11/12/2013

Received by EDM: 2/18/2016

EDM Database Updated: 2/18/2016

RCRIS Handlers with Corrective Action(CORRACTS)

The US EPA Corrective Action Sites (CORRACTS) database is a listing of hazardous waste handlers that have undergone RCRA corrective action activity.

Agency File Date: 1/10/2022

Received by EDM: 1/11/2022

EDM Database Updated: 1/11/2022

Archived Cerclis Sites(NFRAP)

The US EPA NFRAP list contains archived data of CERCLIS records where the EPA has completed assessment activities and determined that no further steps to list the site on the NPL will be taken. NFRAP sites may be reviewed in the future to determine if they should be returned to CERCLIS based upon newly identified contamination problems at the site. The NFRAP database was retired in November of 2013 and has been replaced by the Superfund Enterprise Management System (SEMS).

Agency File Date: 10/25/2013

Received by EDM: 2/18/2016

EDM Database Updated: 2/18/2016

National Priorities List(NPL)

The US EPA National Priorities List (NPL) contains facilities and/or locations where environmental contamination has been confirmed and prioritized for cleanup activities under the Superfund Program. EDM's NPL Report includes sites that are currently on the NPL as well as sites that have been Proposed, Withdrawn and/or Deleted from the list. Previously, information for the NPL was managed under the CERCLIS data management system. In 2014 this system was replaced with the Superfund Enterprise Management System (SEMS). EPA last updated CERCLIS in November of 2013. EDM's NPL Report contains available SEMS data and the archived CERCLIS data relative to NPL sites.

Agency File Date: 4/2/2022

Received by EDM: 4/2/2022

EDM Database Updated: 4/2/2022

NPL Liens List(NPLLIENS)

The US EPA NPL Liens List identifies those sites where under authority granted by CERCLA, liens have been filed against real property in order to recover expenditures from remedial action or when the property owner receives a notice of potential liability.

Agency File Date: 3/28/2022

Received by EDM: 4/2/2022

EDM Database Updated: 4/2/2022

SEMS Active Site Inventory List(SEMSACTV)

The US EPA Superfund Enterprise Management System (SEMS) tracks potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. The SEMSACTV list contains sites that are on the National Priorities List (NPL) as well as sites that are proposed for or in the screening and assessment phase for possible inclusion on the NPL. SEMS has replaced the CERCLIS database, which was retired in November of 2013.

Agency File Date: 4/27/2022

Received by EDM: 5/3/2022

EDM Database Updated: 5/3/2022

SEMS Archived Site Inventory List(SEMSARCH)

The US EPA Superfund Enterprise Management System (SEMS), contains archived data of CERCLIS or SEMS records where the EPA has completed assessment activities and determined that no further steps to list the site on the NPL will be taken. These sites may be reviewed in the future to determine if they should be returned to SEMS based upon newly identified contamination problems at the site. SEMS has replaced the CERCLIS database, which was retired in November of 2013. The SEMSARCH database contains these newly archived records under the SEMS database management system.

Agency File Date: 4/27/2022

Received by EDM: 5/3/2022

EDM Database Updated: 5/3/2022

Tribal LUST List(TRIBLLUST)

EDM's Tribal LUST list is derived from the USEPA Region IV Tribal Tanks database by extracting those sites with indicators of past and/or current releases.

Agency File Date: 2/24/2010

Received by EDM: 3/9/2010

EDM Database Updated: 3/9/2010

Tribal Tanks List(TRIBLTANKS)

The USEPA Region IV Tribal Tanks database lists Active and Closed storage tank facilities on Native American lands.

Agency File Date: 2/24/2010

Received by EDM: 3/9/2010

EDM Database Updated: 3/9/2010

Brownfields Management System(USBRWNFLDS)

The US EPA Brownfields program provides information on environmentally distressed properties that have received Grants or Targeted funding for cleanup and redevelopment. Tribal Brownfield sites are included in the USBRWNFLDS database.

Agency File Date: 1/11/2022

Received by EDM: 1/11/2022

EDM Database Updated: 1/24/2022

Institutional and/or Engineering Controls(USINSTENG)

The USINSTENG list is compiled from data elements contained in the NPL, CORRACTS, USBRWNFLDS and RCRAInfo databases.

Agency File Date: 4/3/2022

Received by EDM: 4/3/2022

EDM Database Updated: 4/4/2022

Environmental Impact Areas

Brownfield Areas and Sites

The FDEP Brownfields database contains a listing of State Designated Brownfield Areas and Brownfield Sites. Brownfields are typically defined as abandoned, idled or underused industrial and commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination.

Agency File Date: 5/3/2022

Received by EDM: 5/3/2022

EDM Database Updated: 5/3/2022

<https://floridadep.gov/waste/waste-cleanup/content/brownfields-program>

Cattle Dipping Vats

From the 1910's through the 1950's, vats were filled with an arsenic solution for the control and eradication of the cattle fever tick. Other pesticides such as DDT were also widely used. By State law, all cattle, horses, mules, goats, and other susceptible animals were required to be dipped every 14 days. Under certain circumstances, the arsenic and other pesticides remaining at the site may present an environmental or public health hazard.

Some of the sites have been located and are currently under investigation. However, most of the listings are from old records of the State Livestock Board, which listed each vat as it was put into operation. In addition, some privately operated vats may have existed which were not listed by the Livestock Board. EDM's Cattle Dipping Vat sites are retrieved from the Voluntary Cleanup and STCERC databases. For additional information on Cattle Dipping Vats visit the FDEP and FDOH websites at:

Agency File Date: 10/31/2018

Received by EDM: 1/25/2019

EDM Database Updated: 1/25/2019

<https://floridadep.gov/waste/district-business-support/content/cattle-dipping-vats-cdv>

<http://www.floridahealth.gov/environmental-health/drinking-water/cattledipvathome.html>

Formerly Used Defense Sites

The DoD is responsible for the environmental restoration of properties that were formerly owned by, leased to or otherwise possessed by the United States and operated under the jurisdiction of the Secretary of Defense prior to October 1986. Such properties are known as Formerly Used Defense Sites (FUDS). The Army is the executive agent for the program and the U.S. Army Corps of Engineers manages and directs the program's administration. For more information on the FUDS Program, including maps and data on individual sites, visit the Army Corps of Engineers website at:

Agency File Date: 5/29/2018

Received by EDM: 1/25/2019

EDM Database Updated: 1/25/2019

<http://www.usace.army.mil/Missions/Environmental/Formerly-Used-Defense-Sites/>

FUDS Munitions Response Sites

The DoD developed the Military Munitions Response Program (MMRP) in 2001 to address munitions-related concerns, including explosive safety, environmental, and health hazards from releases of unexploded ordnance (UXO), discarded military munitions (DDM), and munitions constituents (MC) found at locations, other than operational ranges, on active and Base Realignment and Closure (BRAC) installations and Formerly Used Defense Sites (FUDS) properties. The MMRP addresses non-operational range lands with suspected or known hazards from munitions and explosives of concern (MEC) which occurred prior to September 2002, but are not already included with an Installation Response Program (IRP) site cleanup activity. For more information on the FUDS MMRP Program, including maps and data on individual sites, visit the Army Corps of Engineers website at:

Agency File Date: 5/14/2018

Received by EDM: 1/25/2019

EDM Database Updated: 1/25/2019

<http://www.asaie.army.mil/Public/ESOH/mmrp.html>

Groundwater Contamination Areas

The Ground Water Contamination Areas GIS layer is a statewide map showing the boundaries of delineated areas of known groundwater contamination pursuant to Chapter 62-524, F.A.C., New Potable Water Well Permitting In Delineated Areas. 38 Florida counties have been delineated primarily for the agricultural pesticide ethylene dibromide (EDB), and to a much lesser extent, volatile organic and petroleum contaminants. This GIS layer represents approximately 427,897 acres in 38 counties in Florida that have been delineated for groundwater contamination. However, it does not represent all known sources of groundwater contamination for the state of Florida.

This information is intended to be used by regulatory agencies issuing potable water well construction permits in areas of ground water contamination to protect public health and the ground water resource. Permitted water wells in these areas must meet specific well construction criteria and water testing prior to well use. This dataset only indicates the presence or absence of specific groundwater contaminants and does not represent all known sources of groundwater contamination in the state of Florida.

Agency File Date: 11/28/2018

Received by EDM: 1/24/2019

EDM Database Updated: 1/24/2019

<https://floridadep.gov/water/source-drinking-water/content/delineated-areas>

Institutional Controls

The FDEP Institutional Controls GIS layer is a statewide map showing the approximate boundaries of delineated areas where Institutional Controls are in place.

An institutional control provides for certain restrictions on a property. For example, a site may be cleaned up to satisfy commercial contamination target levels and an institutional control may be placed on that property indicating that it may only be used for commercial activities. If the owner of the property ever wanted to use that property for residential purposes, the owner would have to ensure that any contamination meets residential target levels.

The locational data for this layer is provided by the responsible party and reviewed by FDEP staff. Neither FDEP or EDM assumes responsibility for the accuracy of the boundary data.

Agency File Date: 4/1/2022

Received by EDM: 4/3/2022

EDM Database Updated: 4/3/2022

<https://ca.dep.state.fl.us/mapdirect/?webmap=cff8d21797184421ab4763d3e4a01e48>

National Priorities List

The US EPA National Priorities List (NPL) contains facilities and/or locations where environmental contamination has been confirmed and prioritized for cleanup activities under the Superfund Program. EDM's NPL site boundaries data include sites that are currently on the NPL as well as sites that have been Proposed, Withdrawn and/or Deleted from the list.

Agency File Date: 11/14/2018

Received by EDM: 12/10/2018

EDM Database Updated: 1/22/2019

<https://www.epa.gov/superfund/search-superfund-sites-where-you-live>

Solid Waste Facilities

The FDEP SLDWST list identifies locations that have been permitted to conduct solid waste handling activities.

Agency File Date: 1/23/2019

Received by EDM: 1/24/2019

EDM Database Updated: 1/25/2019

<https://floridadep.gov/waste>

State Funded Cleanup Sites

The FDEP State Funded Cleanup list contains facilities and/or locations where there are no viable responsible parties; the site poses an imminent hazard; and the site does not qualify for Superfund or is a low priority for EPA. Remedial efforts at these sites are currently being addressed through State funded cleanup action.

Agency File Date: 3/30/2021

Received by EDM: 3/31/2021

EDM Database Updated: 3/31/2021

<https://floridadep.gov/waste/waste-cleanup/documents/state-funded-cleanup-program-site-list>

Environmental Data Report

Custom Radius Research

Subject Property:

Poinciana Parkway Extension

Osceola and Polk Counties, Florida

Prepared For:

Tierra Inc

7351 Temple Terrace Hwy

Tampa, FL 33637

Prepared By:



Environmental Data Management, Inc.

2840 West Bay Drive, Suite 208

Belleair Bluffs, Florida 33770

May 31, 2022



May 31, 2022

Chris Garth
Tierra Inc
7351 Temple Terrace Hwy
Tampa, FL 33637

Subject: **Custom Radius Research - EDM Project #26135**

Dear Mr. Garth

Thank you for choosing Environmental Data Management, Inc. The following report provides the results of our environmental data research that you requested for the following location:

Poinciana Parkway Extension

Osceola and Polk Counties, Florida

The following is a summary of the components contained within this report:

- **Executive Summary** –lists the databases that were searched for this report, the search distance criteria and the number of sites identified for each database.
- **Map of Study Area**– street map showing the location of the Subject Property and any regulatory listed sites identified within the search criteria.
- **Site Summary Table** –displays the Map ID number, Permit or Registration number, Name/Address and the Government Database(s) for the identified regulatory listed sites.
- **Detail Reports** – data detail for each database record identified.
- **Proximal Records Table** – a listing of potentially relevant sites identified just beyond the search criteria.
- **Non-Mapped Records Table** - lists those government records that do not contain sufficient address information to plot within our GIS system, but may still exist within your study area.
- **Addl Maps (where applicable)** – includes Recent Aerial Photo, USGS Topographic maps, FEMA Floodplain & NWI Wetland Map, map of statewide American Indian Lands and our Environmental Impact Areas map, showing the location of suspect sites such as NPL/STNPL, Brownfields, FUDS, etc.... Our Florida well data report is also include with the Standard and Comprehensive formats.
- **Agency List Descriptions** – defines the regulatory databases included in this report along with the dates that each database was last updated by the respective agency and EDM.

At EDM we take great pride in our work, and continually strive to provide you with the most accurate and thorough research service available. This report is only intended as a means to assist in identifying locations that may pose an environmental concern relative to the property under evaluation. Its use is not intended to replace the need for a complete environmental assessment or regulatory file review, but rather as a supplement to the overall evaluation.

Thank you again for selecting EDM as your data research provider. Should you have any questions regarding this report or our service, please feel free to contact us. We appreciate the opportunity to be of service to you and look forward to working with you in the future.

ENVIRONMENTAL DATA MANAGEMENT, INC.

Executive Summary

Report Date: 5/31/2022

Client Information	Project Information
Tierra Inc 7351 Temple Terrace Hwy Tampa, FL 33637 Client Job No: 6511-20-202-001E Client P.O. No:	Custom Radius Research Poinciana Parkway Extension Osceola and Polk Counties, Florida EDM Job No# 26135

The following table displays the databases that were included in the research provided and the number of records identified for each database. Site distance values indicated in this report are measured from the boundary of the Subject Property. The absence of records in this table and the Site Summary Tables indicates that our research found no regulated sites within the specified search distances from the Subject Property.

AGENCY DATABASES RESEARCHED	Total # Found
EPA DATABASES	
National Priorities List(NPL)	0
SEMS Active Site Inventory List(SEMSACTV)	0
Comp Env Resp, Compensation & Liability Info Sys List(CERCLIS)	0
SEMS Archived Site Inventory List(SEMSARCH)	0
Archived Cerclis Sites(NFRAP)	0
RCRIS Handlers with Corrective Action(CORRACTS)	0
Tribal Tanks List(TRIBLTANKS)	0
Tribal Lust List(TRIBLLUST)	0
Brownfields Management System(USBRWNFLDS)	0
Institutional and/or Engineering Controls(USINSTENG)	0
NPL Liens List(NPLLIENS)	0

*** Disclaimer ***

Please understand that the regulatory databases we utilize were not originally intended for our use, but rather for the source agency's internal tracking of sites for which they have jurisdiction or other interest. As a result of this difference in intended use, their data is frequently found to be incomplete or inaccurate, and is less than ideal for our use. Our report is not to be relied upon for any purpose other than to "point" at approximate locations where further evaluation may be warranted. No conclusion can be based solely upon our report. Rather, our report should be used as a first step in directing your attention at potential problem areas, which should be followed up by site inspections, interviews with relevant personnel, regulatory file review and other means as specified in the ASTM Standard E 1527-13. Readers proceed at their own risk in relying upon this data, in whole or in part, for use within any evaluation. More detailed language with regard to such limitations and our Terms and Conditions may be found on our website at edm-net.com.



AGENCY DATABASES RESEARCHED	Total # Found
FDEP DATABASES	
State NPL Equivalent(STNPL)	0
State CERCLIS/SEMS Equivalent(STCERC)	1
Solid Waste Facilities List_Landfills(SLDWST_LF)	1
Leaking Underground Storage Tanks List(LUST)	0
Underground/Aboveground Storage Tanks(TANKS)	4
State Designated Brownfields(BRWNFLDS)	0
Voluntary Cleanup List(VOLCLNUP)	2
Institutional and/or Engineering Controls(INSTENG)	0
Dry Cleaners List(DRY)	0
Solid Waste Facilities List_Non-Landfills(SLDWST_NLF)	0

*** Disclaimer ***

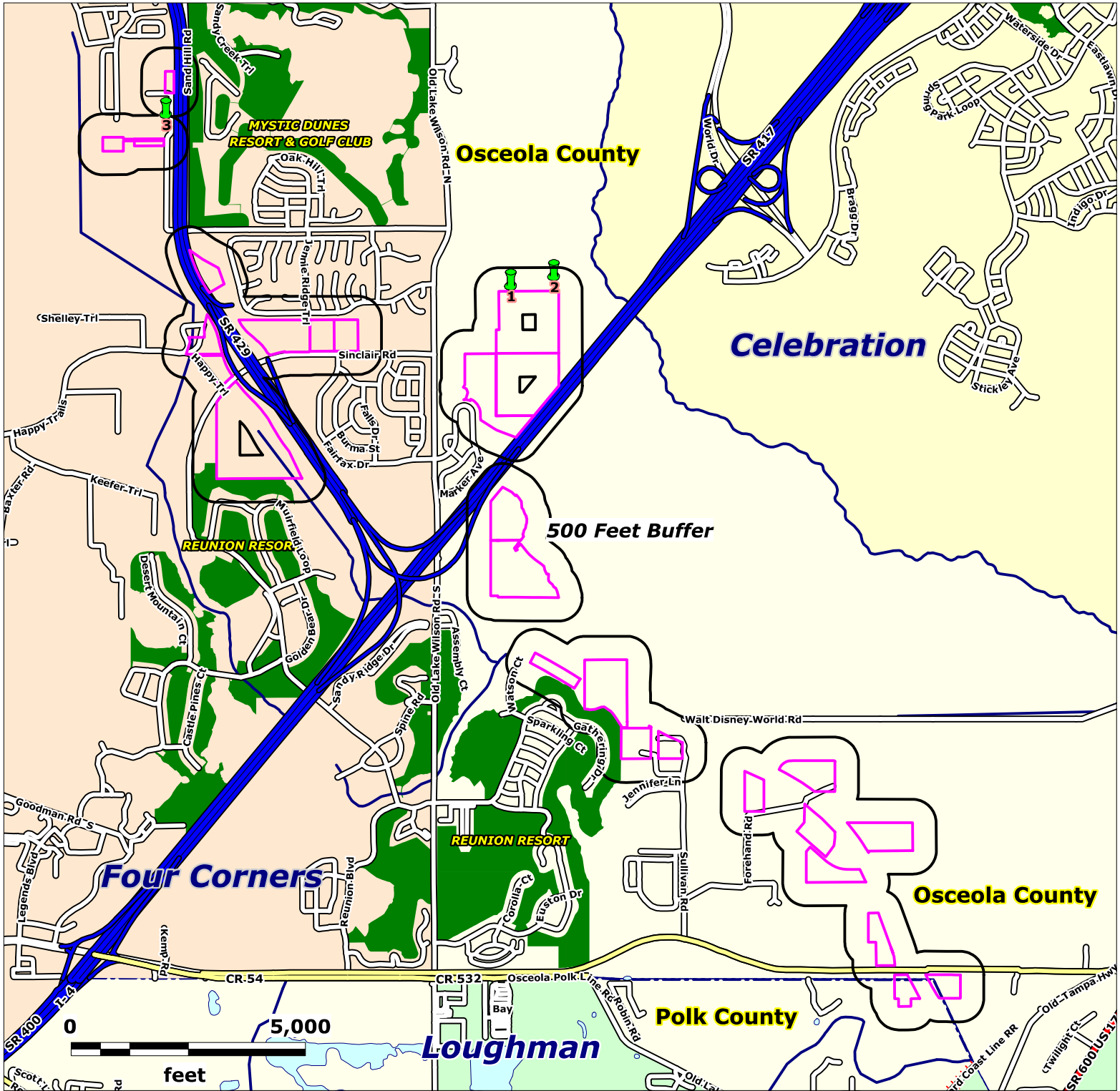
Please understand that the regulatory databases we utilize were not originally intended for our use, but rather for the source agency's internal tracking of sites for which they have jurisdiction or other interest. As a result of this difference in intended use, their data is frequently found to be incomplete or inaccurate, and is less than ideal for our use. Our report is not to be relied upon for any purpose other than to "point" at approximate locations where further evaluation may be warranted. No conclusion can be based solely upon our report. Rather, our report should be used as a first step in directing your attention at potential problem areas, which should be followed up by site inspections, interviews with relevant personnel, regulatory file review and other means as specified in the ASTM Standard E 1527-13. Readers proceed at their own risk in relying upon this data, in whole or in part, for use within any evaluation. More detailed language with regard to such limitations and our Terms and Conditions may be found on our website at edm-net.com.



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Source: US Census Bureau TIGER Files

Map Scale and Property Boundaries are Approximate

Subject Property

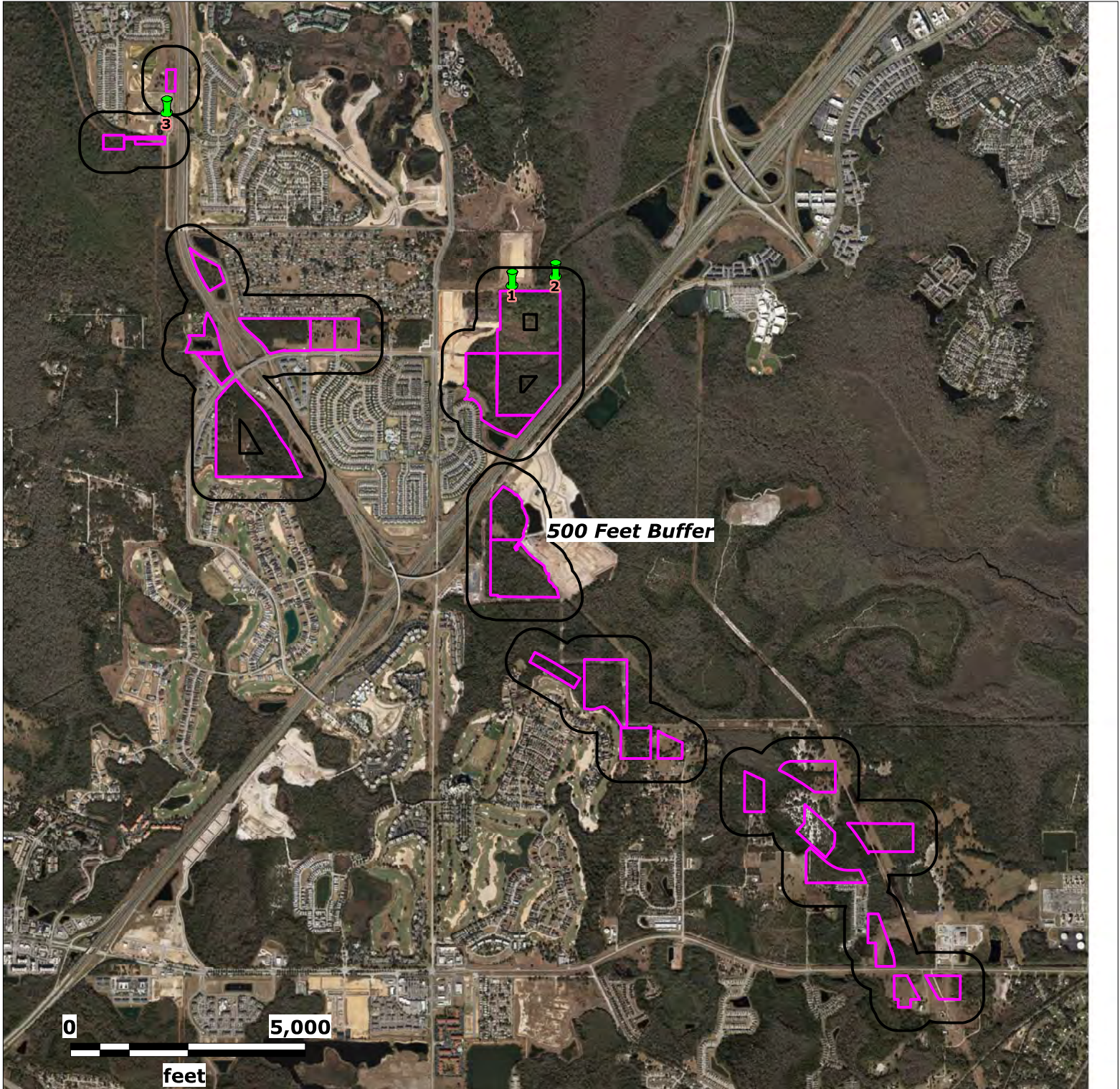
Poinciana Parkway Extension
Osceola and Polk Counties, Florida

Lat (DMS): 28 17' 39.6924"
Lon (DMS): -81 36' 13.8888"

EDM Job No: 26135
May 31, 2022

Approximate Site Boundary

Regulated Site



Source: USDA National Agriculture Imagery Program (NAIP)

Map Scale and Property Boundaries are Approximate

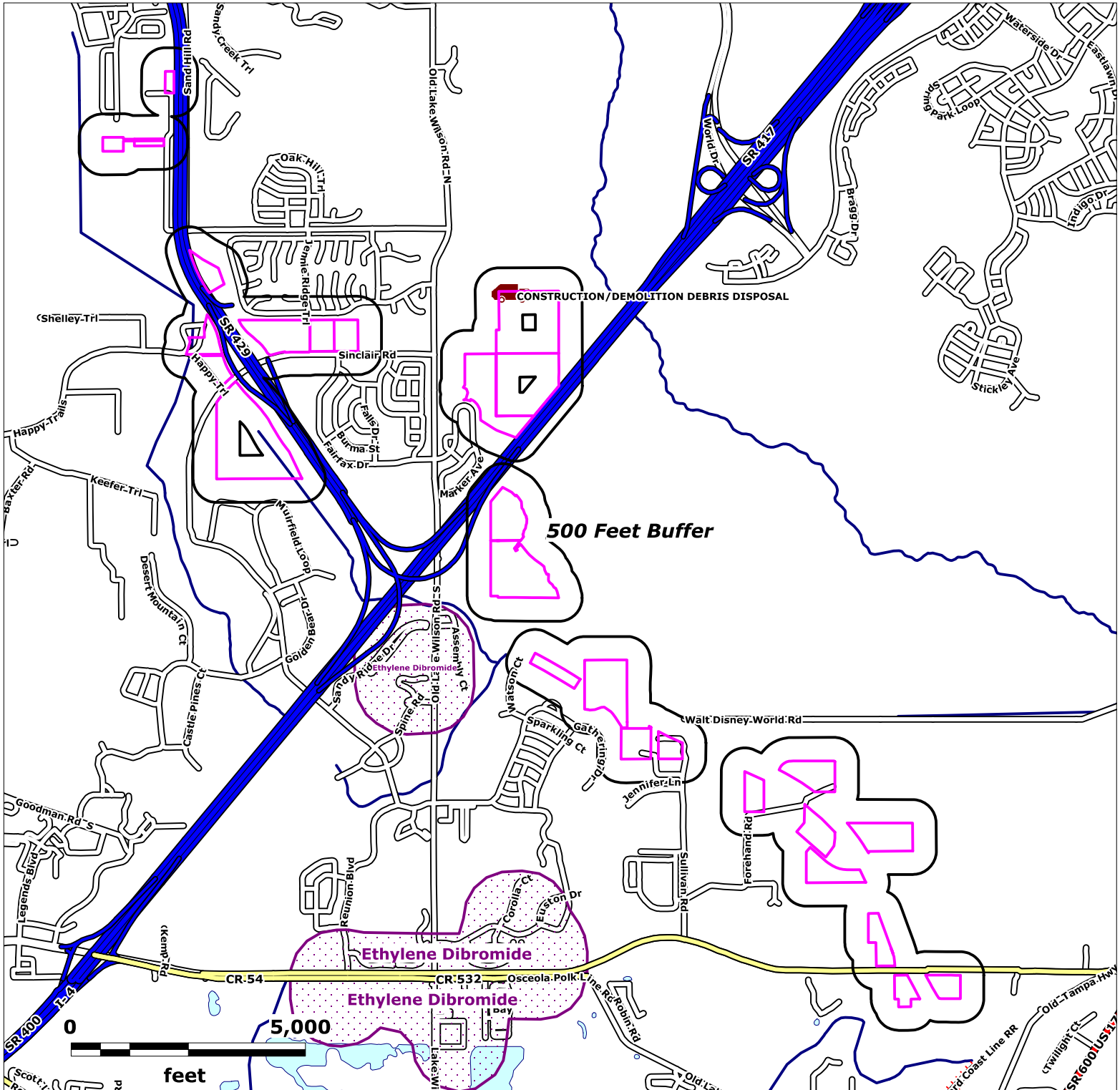
Subject Property

Poinciana Parkway Extension
Osceola and Polk Counties, Florida

Lat (DMS): 28 17' 39.6924"
Lon (DMS): -81 36' 13.8888"

EDM Job No: 26135
May 31, 2022

- Approximate Site Boundary
- Regulated Site



Source: FDEP and USEPA Geodata

Map Scale and Property Boundaries are Approximate

Subject Property

Poinciana Parkway Extension
Osceola and Polk Counties, Florida

Lat (DMS): 28 17' 39.6924"
Lon (DMS): -81 36' 13.8888"

EDM Job No: 26135
May 31, 2022

	FDEP Brownfield Areas		Formerly Used Defense Sites FUDS		Approximate Site Boundary
	FDEP Brownfield Sites		FUDS Munitions Response Areas		
	USEPA NPL & FDEP STNPL Sites		FDEP Cattle Dipping Vat		
	FDEP Delineated GW Contamination		FDEP Solid Waste Sites		Institutional Controls

ENVIRONMENTAL DATA MANAGEMENT

Custom Radius Research

Site Summary Table

Report Date: 5/31/2022

Page 1 of 1

MapID Prgm List	Fac ID No	Site Dist (mi)	Site Elev (ft)	Elev vs Sub Prop	Site Name	Site Address
1						
SLDWST_LF	26040	0.95	119.21	Higher	BEST DIVERSIFIED INC(AKA: P&D)	945 OLD LAKE WILSON RD KISSIMMEE, FL 34747
STCERC	ERIC_9113CLN	0.95	119.21	Higher	BEST DIVERSIFIED INC./ P & D LANDFILL (CDS)	945 OLD LAKE WILSON ROAD KISSIMMEE, FL 34746
TANKS	9700134	0.95	119.21	Higher	P&D LANDFILL	945 OLD LAKE WILSON RD KISSIMMEE, FL 34746
VOLCLNUP	ERIC_9113	0.95	0.00	-	BEST DIVERSIFIED INC./ P & D LANDFILL (CDS)	945 OLD LAKE WILSON ROAD KISSIMMEE, FL
2						
VOLCLNUP	301420	1.12	80.75	Higher	PROGRESS ENERGY LAKE WILSON SUBSTATION	1001 N. OLD LAKE WILSON ROAD BUENA VISTA, FL
3						
TANKS	9100608.	0.03	119.04	Higher	SAND HILL WTP	3211 SAND HILL RD KISSIMMEE, FL
TANKS	9103166	0.03	119.04	Higher	KISSIMMEE CITY-SAND HILL WWTP	8000 SAND HILL RD KISSIMMEE, FL 34747
TANKS	9103166.	0.03	119.04	Higher	KISSIMMEE CITY-WWTP	300 SAND HILL RD KISSIMMEE, FL



FDEP SITE INVESTIGATION SECTION SITES, FDEP CLEANUP SITES AND FDER SITES LIST

(STCERC)

Report Date: 5/31/2022

STCERC Page 1 of 1

FACILITY NAME AND LOCATION:

BEST DIVERSIFIED INC./ P & D LANDFILL (CDS)
945 OLD LAKE WILSON ROAD
KISSIMMEE, FL 34746

AGENCY SITE LAT/LON:

28.299513612309
-81.58553649418

MAP ID NUMBER:

Dist (Miles): 0.95

Direction:

Elev (Ft): 119.21

Elev vs Sub Prop: Higher

1

STCERC

[FDEP INFORMATION PORTAL ON LINE DOCUMENTS](#) (May Not Be Available For All Records)

FDEP SITE INVESTIGATION SECTION INFO:

SITE NO: ERIC_9113

DISTRICT: CD

ALT SITE NO:

FDEP CLEANUP SITES INFO:

FDEP CLEANUP NO: 70443235

CLEANUP SITES SOURCE: ERIC

CLEANUP SITES SOURCE ID: ERIC_9113

CLEANUP SITES COMMENTS: OPEN

CLEANUP SITES PGM AREA: CU

CLEANUP SITES CATEGORY: OTHCU

CLEANUP SITES REMED STATUS: OPEN

FDER SITES LIST INFO:

SITE NUMBER:

PROJECT MGR:

STATUS:

LEAD UNIT:

ATTORNEY:

STATUS DATE:

SUPPORT UNIT:



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FDEP SOLID WASTE FACILITIES LIST LANDFILL SITES

(SLDWST_LF)

Report Date: 5/31/2022

SLDWST Page 1 of 1

FACILITY ID, NAME AND LOCATION:

26040
BEST DIVERSIFIED INC(AKA: P&D)
945 OLD LAKE WILSON RD
KISSIMMEE, FL 34747

DISTRICT CD
COUNTY OSCEOLA
SEC/TWN/RN 23 /25S /27E
AGENCY LAT: 28:17:58.23
AGENCY LON: 81:35:7.92

MAP ID NUMBER:

Dist (Miles): 0.95
Direction:
Elev (Ft): 119.21
Elev vs Sub Prop: Higher

1

S
L
D
W
S
T

RESP AUTHORITY:

SITE CONTACT:

LAND OWNER:

FACILITY CLASS: 540/CONSTRUCTION/DEMOLITION DEBRIS DISPOSAL

CLASS STATUS: NFA,NO FURTHER ACTION (F)

[FDEP INFORMATION PORTAL ON LINE DOCUMENTS](#) (May Not Be Available For All Records)

[FDEP INFORMATION PORTAL ON LINE REPORTS](#) (May Not Be Available For All Records)



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FDEP STORAGE TANKS REPORT

(TANKS)

Report Date: 5/31/2022

TANKS Page 1 of 1

FACILITY ID NUMBER, NAME AND LOCATION

9700134
P&D LANDFILL
945 OLD LAKE WILSON RD
KISSIMMEE, FL 34746

OWNERSHIP INFORMATION

P&D LANDFILL
945 OLD LAKE WILSON RD
KISSIMMEE, FL 34746
CONTACT: CARY HUFF/4073970199
SITE COUNTY: 49 OSCEOLA
SITE LAT/LON (AGCY): 28 17 51 / 81 35 10

MAP ID NUMBER:

Dist (Miles): 0.95
Direction:
Elev (Ft): 119.21
Elev vs Sub Prop: Higher

1

T
A
N
K
S

[FDEP INFORMATION PORTAL ON LINE DOCUMENTS](#) (May Not Be Available For All Records)

FAC STATUS: CLOSED

FAC TYPE: Fuel user/Non-retail

TANK #:	TANK VOL(GALS):
1	1000

INST.DATE:	TANK CONTENTS:
01-Aug-1994	Vehicular Diesel

TANK POSITION:
ABOVEGROUND

TANK STATUS (as of...)
REMOVED FROM SITE 01-Feb-2000

CONSTRUCTION TYPE: CK

STEEL/AST CONTAINMENT

PIPING TYPE:

LEAK MONITORING:



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FDEP VOLUNTARY CLEANUP SITES

(VOLCLNUP)

Report Date: 5/31/2022

VOLCLNUP Page 1 of 1

FACILITY ID NUMBER, NAME AND LOCATION:

ERIC_9113
BEST DIVERSIFIED INC./ P & D LANDFILL (CDS)
945 OLD LAKE WILSON ROAD
KISSIMMEE, FL 34746

COUNTY: Osceola
DISTRICT: CD
AGENCY LAT: 28.2995136276493
AGENCY LON: -81.585536495881

MAP ID NUMBER:

1

Dist (Miles): 0.95
Direction:
Elev (Ft): 0.00
Elev vs Sub Prop: -

VOLCLNUP

[FDEP INFORMATION PORTAL ON LINE DOCUMENTS](#) (May Not Be Available For All Records)

ERIC WASTE CLEANUP DATA

SOURCE FAC ID NO: 137160 SOURCE FAC NAME: BEST DIVERSIFIED INC./ P & D LANDFILL (CDS) SITE STATUS: OPEN
PROGRAM: Responsible Party Cleanup PROGRAM STATUS: ACTIVE SITE MANAGER:
DISCH DATE: OFFSITE CONTAM KEY?: CONTAMUNKNOWN INST CONTROL?: N SITE PHASE: Phase 0 - Discovery

BSRA DATA

AREA ID: AREA NAME:
ACREAGE: REMED STATUS: BSRA DATE: SRCO DATE:
COMMENTS:

WASTE CLEANUP DATA

PROJ ID: OGC NO: STATUS: PRIORITY SCORE: INIT DATA RCVD:
CONTAMINANTS:
OFFSITE CONTAM?: FEATURE:



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FDEP VOLUNTARY CLEANUP SITES

(VOLCLNUP)

Report Date: 5/31/2022

VOLCLNUP Page 1 of 1

FACILITY ID NUMBER, NAME AND LOCATION:

301420 **--HISTORICAL ENTRY--**
PROGRESS ENERGY LAKE WILSON SUBSTATION
1001 N. OLD LAKE WILSON ROAD
BUENA VISTA, FL

COUNTY: OSCEOLA
DISTRICT:
AGENCY LAT:
AGENCY LON:

MAP ID NUMBER:

2

Dist (Miles): 1.12
Direction:
Elev (Ft): 80.75
Elev vs Sub Prop: Higher

V
O
L
C
L
N
U
P

[FDEP INFORMATION PORTAL ON LINE DOCUMENTS](#) (May Not Be Available For All Records)

BSRA DATA

AREA ID: AREA NAME:
ACREAGE: REMED STATUS: BSRA DATE: SRCO DATE:
COMMENTS:

WASTE CLEANUP DATA

PROJ ID: 322954 OGC NO: STATUS: CLOSED PRIORITY SCORE: INIT DATA RCVD: 5/28/2009
CONTAMINANTS:
OFFSITE CONTAM?: FEATURE:



FDEP STORAGE TANKS REPORT

(TANKS)

Report Date: 5/31/2022

TANKS Page 1 of 3

FACILITY ID NUMBER, NAME AND LOCATION

9100608. --HISTORICAL ENTRY--
SAND HILL WTP
3211 SAND HILL RD
KISSIMMEE, FL

OWNERSHIP INFORMATION

CONTACT: /
SITE COUNTY: 49 OSCEOLA
SITE LAT/LON (AGCY): /

MAP ID NUMBER:

3

Dist (Miles): 0.03
Direction:
Elev (Ft): 119.04
Elev vs Sub Prop: Higher

T
A
N
K
S

[FDEP INFORMATION PORTAL ON LINE DOCUMENTS](#) (May Not Be Available For All Records)

FAC STATUS: OPEN

FAC TYPE: C / Fuel User/Non-Retail

TANK #: **TANK VOL(GALS):**

INST.DATE:

TANK CONTENTS:

TANK POSITION:

TANK STATUS (as of...)

CONSTRUCTION TYPE:

PIPING TYPE:

LEAK MONITORING:



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FDEP STORAGE TANKS REPORT

(TANKS)

Report Date: 5/31/2022

TANKS Page 2 of 3

FACILITY ID NUMBER, NAME AND LOCATION

9103166
 KISSIMMEE CITY-SAND HILL WWTP
 8000 SAND HILL RD
 KISSIMMEE, FL 34747

OWNERSHIP INFORMATION

TOHOPEKALIGA WATER AUTHORI
 951 MARTIN LUTHER KING BLVD ATT
 Kissimmee, FL 34741
CONTACT: RICHARD HAYNES/4079445000
SITE COUNTY: 49 OSCEOLA
SITE LAT/LON (AGCY): 28 18 35 / 81 36 32

MAP ID NUMBER:

Dist (Miles): 0.03
Direction:
Elev (Ft): 119.04
Elev vs Sub Prop: Higher

3

T
A
N
K
S

[FDEP INFORMATION PORTAL ON LINE DOCUMENTS](#) (May Not Be Available For All Records)

FAC STATUS: OPEN

FAC TYPE: Local Government

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...)
1	2000	01-Oct-1990	Emerg Generator Diesel	ABOVEGROUND	REMOVED FROM SITE 01-Sep-2005

CONSTRUCTION TYPE: C STEEL

PIPING TYPE:

LEAK MONITORING: Z DEP APPROVED MONITORING

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...)
2	6000	01-Jul-1998	Emerg Generator Diesel	ABOVEGROUND	IN SERVICE 01-Jul-1998

CONSTRUCTION TYPE: CMPR STEEL/SPILL CONTAINMENT BUCKET/LEVEL GAUGES/ALARMS/DOUBLE WALL-TANK JACKET

PIPING TYPE: BM STEEL/GALVANIZED METAL/DOUBLE WALL-PIPE JACKET

LEAK MONITORING: Z DEP APPROVED MONITORING

TANK #:	TANK VOL(GALS):	INST.DATE:	TANK CONTENTS:	TANK POSITION:	TANK STATUS (as of...)
3	5000	01-Sep-2005	Emerg Generator Diesel	ABOVEGROUND	IN SERVICE 01-Sep-2005

CONSTRUCTION TYPE: CKP STEEL/AST CONTAINMENT/LEVEL GAUGES/ALARMS

PIPING TYPE: AB ABV, NO SOIL CONTACT/STEEL/GALVANIZED METAL

LEAK MONITORING: FQ MONITOR DBL WALL TANK SPACE/VISUAL INSPECTION OF ASTS



FDEP STORAGE TANKS REPORT

(TANKS)

Report Date: 5/31/2022

TANKS Page 3 of 3

FACILITY ID NUMBER, NAME AND LOCATION

9103166. --HISTORICAL ENTRY--
KISSIMMEE CITY-WWTP
300 SAND HILL RD
KISSIMMEE, FL

OWNERSHIP INFORMATION

CONTACT: /
SITE COUNTY: 49 OSCEOLA
SITE LAT/LON (AGCY): /

MAP ID NUMBER:

3

Dist (Miles): 0.03
Direction:
Elev (Ft): 119.04
Elev vs Sub Prop: Higher

T
A
N
K
S

[FDEP INFORMATION PORTAL ON LINE DOCUMENTS](#) (May Not Be Available For All Records)

FAC STATUS: OPEN

FAC TYPE: H / Local Government

TANK #: **TANK VOL(GALS):**

INST.DATE:

TANK CONTENTS:

TANK POSITION:

TANK STATUS (as of...)

CONSTRUCTION TYPE:

PIPING TYPE:

LEAK MONITORING:



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ENVIRONMENTAL DATA MANAGEMENT

Custom Radius Research Proximal Site Summary Table

This table includes mapped sites whose plotted coordinates fall just outside of the ASTM or client defined research distance but whose property boundaries may still extend into the search area. These sites are typically large commercial or industrial tracts that may merit inclusion in the evaluation process. Detail data reports on any of these sites may be requested and will be sent as an addendum to this report at no additional cost.

Report Date: 5/31/2022

Page 1 of 1

MapID Prgm List	Fac ID No	Site Dist (mi)	Site Elev (ft)	Elev vs Sub Prop	Site Name	Site Address
1A						
LUST	9100367	0.65	86.39	Higher	HERMAN J HEIDRICH & SONS INC	1261 S OLD LAKE WILSON KISSIMMEE, FL 34747
LUST	9100367.	0.65	86.39	Higher	HERMAN J HEIDRICH & SONS INC	1251 S OLD LAKE WILSON KISSIMMEE, FL
TANKS	9100367	0.65	86.39	Higher	HERMAN J HEIDRICH & SONS INC	1261 S OLD LAKE WILSON KISSIMMEE, FL 34747
TANKS	9100367.	0.65	86.39	Higher	HERMAN J HEIDRICH & SONS	1251 S OLD LAKE WILSON KISSIMMEE, FL
TANKS	9802294	0.65	86.39	Higher	MAGNOLIA CREEK EAST	1261 S OLD LAKE WILSON RD DAVENPORT, FL 33837
VOLCLNUP	301286	0.65	86.39	Higher	MAGNOLIA CREEK EAST	S LAKE WILSON RD INTERCESSION CITY, FL
2A						
VOLCLNUP	ERIC_12895	0.65	0.00	-	MAGNOLIA CREEK EAST	S LAKE WILSON RD INTERCESSION CITY, FL
3A						
TANKS	9815514	0.56	0.00	-	7-ELEVEN STORE #38061	7605 SINCLAIR RD KISSIMMEE, FL 34747



ENVIRONMENTAL DATA MANAGEMENT

Custom Radius Research Non-Mapped Records Summary Table

This table is a listing of database records that have not been plotted within our mapping system. Detail data reports on any of these sites may be requested and will be sent as an addendum to this report at no additional cost.

Report Date: 5/31/2022

Page 1 of 1

Prgm List	Site Name	Site Address
Fac ID No		



Agency List Descriptions

USEPA and State Databases are updated on a quarterly basis. Supplemental Databases are updated on an annual basis.

Florida Department of Environmental Protection (FDEP)

State Designated Brownfields(BRWNFLDS)

The FDEP Brownfields database contains a listing of State Designated Brownfield Areas and Brownfield Sites. Brownfields are typically defined as abandoned, idled or underused industrial and commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination.

Agency File Date: 5/3/2022

Received by EDM: 5/3/2022

EDM Database Updated: 5/3/2022

Dry Cleaners List(DRY)

The FDEP Dry Cleaning Facilities List is comprised of data from the FDEP Storage Tank and Contamination Monitoring (STCM) database and the Drycleaning Solvent Cleanup Program- Priority Ranking List. It contains a listing of those Dry Cleaning sites (and suspected historical Dry Cleaning sites) who have registered with the FDEP and/or have applied for the Dry Cleaning Solvent Cleanup Program.

Agency File Date: 4/3/2022

Received by EDM: 4/3/2022

EDM Database Updated: 4/3/2022

Institutional and/or Engineering Controls(INSTENG)

The FDEP Institutional Controls Registry Database (INSTENG) contains sites that have had Institutional and/or Engineering Controls implemented to regulate exposure to environmental hazards

Agency File Date: 4/1/2022

Received by EDM: 4/3/2022

EDM Database Updated: 4/3/2022

Leaking Underground Storage Tanks List(LUST)

The FDEP LUST list identifies facilities and/or locations that have notified the FDEP of a possible release of contaminants from petroleum storage systems. This Report is generated from the FDEP Storage Tank and Contamination Monitoring Database (STCM).

Agency File Date: 4/14/2022

Received by EDM: 4/14/2022

EDM Database Updated: 4/14/2022

Solid Waste Facilities List_Landfills(SLDWST_LF)

The SLDWST_LF list identifies locations that have conducted solid waste landfill activities as determined by the applicable FDEP Facility Classifications. Sites listed with "##" after the Facility ID Number are historical locations, obtained from documents on record at local agencies.

Agency File Date: 4/4/2022

Received by EDM: 4/6/2022

EDM Database Updated: 4/7/2022

Solid Waste Facilities List_Non-Landfills(SLDWST_NLF)

The SLDWST_NLF list identifies locations that have conducted solid waste handling activities other than landfilling, as determined by the applicable FDEP Facility Classifications, such as Transfer Stations, Disaster Debris Staging Areas and sites handling Bio-Hazardous wastes. Sites listed with "##" after the Facility ID Number are historical locations, obtained from documents on record at local agencies.

Agency File Date: 4/4/2022

Received by EDM: 4/6/2022

EDM Database Updated: 4/7/2022

State CERCLIS/SEMS Equivalent(STCERC)

The STCERC list is compiled from the FDEP Site Investigation Section list, the Florida SITES list(historical) and the FDEP Cleanup Sites list. These sites are being assessed and/or cleaned up as a result of identified or suspected contamination from the release of hazardous substances. The FDEP Cleanup Sites list programs include: Brownfields, Petroleum, EPA Superfund (CERCLA), Drycleaning, Responsible Party Cleanup, State Funded Cleanup, State Owned Lands Cleanup and Hazardous Waste Cleanup.

Agency File Date: 2/18/2022

Received by EDM: 2/18/2022

EDM Database Updated: 2/18/2022

State NPL Equivalent(STNPL)

The FDEP State Funded Cleanup list contains facilities and/or locations where there are no viable responsible parties; the site poses an imminent hazard; and the site does not qualify for Superfund or is a low priority for EPA. Remedial efforts at these sites are currently being addressed through State funded cleanup action.

Agency File Date: 2/18/2022

Received by EDM: 2/18/2022

EDM Database Updated: 2/18/2022

Underground/Aboveground Storage Tanks(TANKS)

The FDEP TANKS list contains sites with registered aboveground and underground storage tanks containing regulated petroleum products.

Agency File Date: 3/15/2022

Received by EDM: 3/15/2022

EDM Database Updated: 4/1/2022

Voluntary Cleanup List(VOLCLNUP)

The VOLCLNUP List is derived from the FDEP Brownfields Site Rehabilitation Agreement (BSRA) database, the FDEP ERIC Waste Cleanup database and the FDEP Office of Waste Cleanup Responsible Party Sites database (not available as of June 2021). The VOLCLNUP List identifies sites that have signed an agreement to Voluntarily cleanup a site and/or sites where legal responsibility for site rehabilitation exists pursuant to Florida Statutes and is being conducted either voluntarily or pursuant to enforcement activity.

Agency File Date: 4/1/2022

Received by EDM: 4/2/2022

EDM Database Updated: 4/2/2022

United States Environmental Protection Agency (EPA)

Comp Env Resp, Compensation & Liability Info Sys List(CERCLIS)

The US EPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database tracks potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are proposed to be on the NPL, are on the NPL and sites that are in the screening and assessment phase for possible inclusion on the NPL. The CERCLIS database was retired in November of 2013 and has been replaced by the Superfund Enterprise Management System (SEMS).

Agency File Date: 11/12/2013

Received by EDM: 2/18/2016

EDM Database Updated: 2/18/2016

RCRIS Handlers with Corrective Action(CORRACTS)

The US EPA Corrective Action Sites (CORRACTS) database is a listing of hazardous waste handlers that have undergone RCRA corrective action activity.

Agency File Date: 1/10/2022

Received by EDM: 1/11/2022

EDM Database Updated: 1/11/2022

Archived Cerclis Sites(NFRAP)

The US EPA NFRAP list contains archived data of CERCLIS records where the EPA has completed assessment activities and determined that no further steps to list the site on the NPL will be taken. NFRAP sites may be reviewed in the future to determine if they should be returned to CERCLIS based upon newly identified contamination problems at the site. The NFRAP database was retired in November of 2013 and has been replaced by the Superfund Enterprise Management System (SEMS).

Agency File Date: 10/25/2013

Received by EDM: 2/18/2016

EDM Database Updated: 2/18/2016

National Priorities List(NPL)

The US EPA National Priorities List (NPL) contains facilities and/or locations where environmental contamination has been confirmed and prioritized for cleanup activities under the Superfund Program. EDM's NPL Report includes sites that are currently on the NPL as well as sites that have been Proposed, Withdrawn and/or Deleted from the list. Previously, information for the NPL was managed under the CERCLIS data management system. In 2014 this system was replaced with the Superfund Enterprise Management System (SEMS). EPA last updated CERCLIS in November of 2013. EDM's NPL Report contains available SEMS data and the archived CERCLIS data relative to NPL sites.

Agency File Date: 4/2/2022

Received by EDM: 4/2/2022

EDM Database Updated: 4/2/2022

NPL Liens List(NPLLIENS)

The US EPA NPL Liens List identifies those sites where under authority granted by CERCLA, liens have been filed against real property in order to recover expenditures from remedial action or when the property owner receives a notice of potential liability.

Agency File Date: 3/28/2022

Received by EDM: 4/2/2022

EDM Database Updated: 4/2/2022

SEMS Active Site Inventory List(SEMSACTV)

The US EPA Superfund Enterprise Management System (SEMS) tracks potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. The SEMSACTV list contains sites that are on the National Priorities List (NPL) as well as sites that are proposed for or in the screening and assessment phase for possible inclusion on the NPL. SEMS has replaced the CERCLIS database, which was retired in November of 2013.

Agency File Date: 4/27/2022

Received by EDM: 5/3/2022

EDM Database Updated: 5/3/2022

SEMS Archived Site Inventory List(SEMSARCH)

The US EPA Superfund Enterprise Management System (SEMS), contains archived data of CERCLIS or SEMS records where the EPA has completed assessment activities and determined that no further steps to list the site on the NPL will be taken. These sites may be reviewed in the future to determine if they should be returned to SEMS based upon newly identified contamination problems at the site. SEMS has replaced the CERCLIS database, which was retired in November of 2013. The SEMSARCH database contains these newly archived records under the SEMS database management system.

Agency File Date: 4/27/2022

Received by EDM: 5/3/2022

EDM Database Updated: 5/3/2022

Tribal LUST List(TRIBLLUST)

EDM's Tribal LUST list is derived from the USEPA Region IV Tribal Tanks database by extracting those sites with indicators of past and/or current releases.

Agency File Date: 2/24/2010

Received by EDM: 3/9/2010

EDM Database Updated: 3/9/2010

Tribal Tanks List(TRIBLTANKS)

The USEPA Region IV Tribal Tanks database lists Active and Closed storage tank facilities on Native American lands.

Agency File Date: 2/24/2010

Received by EDM: 3/9/2010

EDM Database Updated: 3/9/2010

Brownfields Management System(USBRWNFLDS)

The US EPA Brownfields program provides information on environmentally distressed properties that have received Grants or Targeted funding for cleanup and redevelopment. Tribal Brownfield sites are included in the USBRWNFLDS database.

Agency File Date: 1/11/2022

Received by EDM: 1/11/2022

EDM Database Updated: 1/24/2022

Institutional and/or Engineering Controls(USINSTENG)

The USINSTENG list is compiled from data elements contained in the NPL, CORRACTS, USBRWNFLDS and RCRAInfo databases.

Agency File Date: 4/3/2022

Received by EDM: 4/3/2022

EDM Database Updated: 4/4/2022

Environmental Impact Areas

Brownfield Areas and Sites

The FDEP Brownfields database contains a listing of State Designated Brownfield Areas and Brownfield Sites. Brownfields are typically defined as abandoned, idled or underused industrial and commercial sites where expansion or redevelopment is complicated by real or perceived environmental contamination.

Agency File Date: 5/3/2022

Received by EDM: 5/3/2022

EDM Database Updated: 5/3/2022

<https://floridadep.gov/waste/waste-cleanup/content/brownfields-program>

Cattle Dipping Vats

From the 1910's through the 1950's, vats were filled with an arsenic solution for the control and eradication of the cattle fever tick. Other pesticides such as DDT were also widely used. By State law, all cattle, horses, mules, goats, and other susceptible animals were required to be dipped every 14 days. Under certain circumstances, the arsenic and other pesticides remaining at the site may present an environmental or public health hazard.

Some of the sites have been located and are currently under investigation. However, most of the listings are from old records of the State Livestock Board, which listed each vat as it was put into operation. In addition, some privately operated vats may have existed which were not listed by the Livestock Board. EDM's Cattle Dipping Vat sites are retrieved from the Voluntary Cleanup and STCERC databases. For additional information on Cattle Dipping Vats visit the FDEP and FDOH websites at:

Agency File Date: 10/31/2018

Received by EDM: 1/25/2019

EDM Database Updated: 1/25/2019

<https://floridadep.gov/waste/district-business-support/content/cattle-dipping-vats-cdv>

<http://www.floridahealth.gov/environmental-health/drinking-water/cattledipvathome.html>

Formerly Used Defense Sites

The DoD is responsible for the environmental restoration of properties that were formerly owned by, leased to or otherwise possessed by the United States and operated under the jurisdiction of the Secretary of Defense prior to October 1986. Such properties are known as Formerly Used Defense Sites (FUDS). The Army is the executive agent for the program and the U.S. Army Corps of Engineers manages and directs the program's administration. For more information on the FUDS Program, including maps and data on individual sites, visit the Army Corps of Engineers website at:

Agency File Date: 5/29/2018

Received by EDM: 1/25/2019

EDM Database Updated: 1/25/2019

<http://www.usace.army.mil/Missions/Environmental/Formerly-Used-Defense-Sites/>

FUDS Munitions Response Sites

The DoD developed the Military Munitions Response Program (MMRP) in 2001 to address munitions-related concerns, including explosive safety, environmental, and health hazards from releases of unexploded ordnance (UXO), discarded military munitions (DDM), and munitions constituents (MC) found at locations, other than operational ranges, on active and Base Realignment and Closure (BRAC) installations and Formerly Used Defense Sites (FUDS) properties. The MMRP addresses non-operational range lands with suspected or known hazards from munitions and explosives of concern (MEC) which occurred prior to September 2002, but are not already included with an Installation Response Program (IRP) site cleanup activity. For more information on the FUDS MMRP Program, including maps and data on individual sites, visit the Army Corps of Engineers website at:

Agency File Date: 5/14/2018

Received by EDM: 1/25/2019

EDM Database Updated: 1/25/2019

<http://www.asaie.army.mil/Public/ESOH/mmrp.html>

Groundwater Contamination Areas

The Ground Water Contamination Areas GIS layer is a statewide map showing the boundaries of delineated areas of known groundwater contamination pursuant to Chapter 62-524, F.A.C., New Potable Water Well Permitting In Delineated Areas. 38 Florida counties have been delineated primarily for the agricultural pesticide ethylene dibromide (EDB), and to a much lesser extent, volatile organic and petroleum contaminants. This GIS layer represents approximately 427,897 acres in 38 counties in Florida that have been delineated for groundwater contamination. However, it does not represent all known sources of groundwater contamination for the state of Florida.

This information is intended to be used by regulatory agencies issuing potable water well construction permits in areas of ground water contamination to protect public health and the ground water resource. Permitted water wells in these areas must meet specific well construction criteria and water testing prior to well use. This dataset only indicates the presence or absence of specific groundwater contaminants and does not represent all known sources of groundwater contamination in the state of Florida.

Agency File Date: 11/28/2018

Received by EDM: 1/24/2019

EDM Database Updated: 1/24/2019

<https://floridadep.gov/water/source-drinking-water/content/delineated-areas>

Institutional Controls

The FDEP Institutional Controls GIS layer is a statewide map showing the approximate boundaries of delineated areas where Institutional Controls are in place.

An institutional control provides for certain restrictions on a property. For example, a site may be cleaned up to satisfy commercial contamination target levels and an institutional control may be placed on that property indicating that it may only be used for commercial activities. If the owner of the property ever wanted to use that property for residential purposes, the owner would have to ensure that any contamination meets residential target levels.

The locational data for this layer is provided by the responsible party and reviewed by FDEP staff. Neither FDEP or EDM assumes responsibility for the accuracy of the boundary data.

Agency File Date: 4/1/2022

Received by EDM: 4/3/2022

EDM Database Updated: 4/3/2022

<https://ca.dep.state.fl.us/mapdirect/?webmap=cff8d21797184421ab4763d3e4a01e48>

National Priorities List

The US EPA National Priorities List (NPL) contains facilities and/or locations where environmental contamination has been confirmed and prioritized for cleanup activities under the Superfund Program. EDM's NPL site boundaries data include sites that are currently on the NPL as well as sites that have been Proposed, Withdrawn and/or Deleted from the list.

Agency File Date: 11/14/2018

Received by EDM: 12/10/2018

EDM Database Updated: 1/22/2019

<https://www.epa.gov/superfund/search-superfund-sites-where-you-live>

Solid Waste Facilities

The FDEP SLDWST list identifies locations that have been permitted to conduct solid waste handling activities.

Agency File Date: 1/23/2019

Received by EDM: 1/24/2019

EDM Database Updated: 1/25/2019

<https://floridadep.gov/waste>

State Funded Cleanup Sites

The FDEP State Funded Cleanup list contains facilities and/or locations where there are no viable responsible parties; the site poses an imminent hazard; and the site does not qualify for Superfund or is a low priority for EPA. Remedial efforts at these sites are currently being addressed through State funded cleanup action.

Agency File Date: 3/30/2021

Received by EDM: 3/31/2021

EDM Database Updated: 3/31/2021

<https://floridadep.gov/waste/waste-cleanup/documents/state-funded-cleanup-program-site-list>

APPENDIX E SITE PHOTOGRAPHS

SITE PHOTOGRAPHS

Site 1 – No photo available since no crops remain



**Site 2 – Central Florida Pipeline (petroleum/ethanol)
South of “Valve Station 16-20” looking north**



**East side of barn looking west
Site 3 – Barn 1**



West of structure looking east



North of buried debris area looking south

Site 4 – Buried Debris and Barn 2



Roof shingles near southwest corner of building



Interior of building

Site 4 – Buried Debris and Barn 2



East of house looking west



East of house looking southwest at storage area

Site 5 – Residence 1



**Site 6 – Sabal Trail Transmission Reunion
Southwest looking northeast**



Southwest of WWTP looking northeast



South of storage building looking north

Site 7 – 21 Palms RV Resort WWTP



**Site 9 – 1235 Sullivan Road
South of house looking north**



**Site 10 – Golf at Reunion Resort
(Formerly Heidrich & Sons/
Magnolia Creek East)**



**Site 11 – FGT Davenport Compressor Station
Tank farm in containment**



**Site 12 – East Green Swamp Station 456
North of mercaptan AST in containment looking south**



**Site 13 – Former RV Park remnants
South of I-4/SR 429 interchange looking northwest**



Site 14 – SBA Cell Tower
Southeast corner looking northwest



Site 15 – Lift Station
Southeast of lift station looking west



**Site 16 – Ethylene Dibromide (EDB) Groundwater Contamination Zone #49263268
I-4 looking east**



West side of facility looking northwest



South of facility looking north

Site 17 – TECO Osceola Gate Station



**Site 18 – Mystic Dunes Resort & Golf Club
East boundary of golf course looking south**



**Site 19 – Sand Hill WWTP
South entrance of WWTP looking north**



Site 20 – Osceola Substation
Southeast of substation looking northwest



Site 21 – Lake Wilson Substation
South of substation looking north



Southwest of Pump House looking northeast Monitor well near northwest corner
Site 22 – Best Diversified, Inc./
P&D Landfill



Overgrown berm near west boundary Concrete pad in northwest area
Site 22 – Best Diversified, Inc./
P&D Landfill



**Asphalt, wood, carpet, and plastic debris in recently filled southwest area
Site 22 – Best Diversified, Inc./
P&D Landfill**



Site 24 – Planted Pine Trees

DRAINAGE SITE PHOTOGRAPHS



Basin 109 Alt 1
Southwest boundary looking southeast

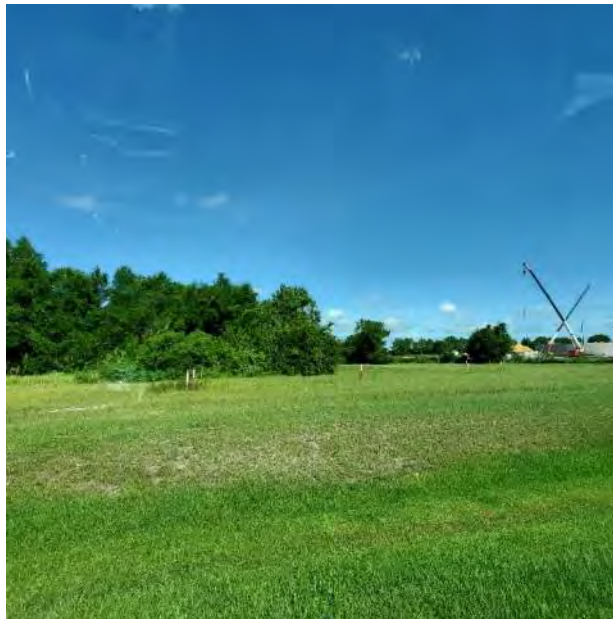


Basin 109 Alt 2
Northwest of Alt 2 looking southeast



Basin 109 Alt 3

**Wood, asphalt, concrete and one crushed 5-gallon bucket (empty) in southwest area
Also see Site 22 photographs**



Basin 200 Alt 1

Near southeast corner looking northwest



Northeast corner looking west



Southeast corner looking west

Basin 200 Alt 2



Basin 200 Alt 3

Near west end of easement looking southwest



South boundary looking north



West boundary looking east

Basin 201 Alt 1



Basin 201 Alt 2

South boundary looking north



Basin 201 Alt 3
Near southeast corner looking northwest



Basin 201 Alt 4
Northeast boundary looking southeast



Debris in north-central area



Waste oil containers in central area

Basin 202 Alt 1



Debris in central area



South-central area looking north

Basin 202 Alt 1



Basin 202 Alt 2
Southwest corner looking northeast



Near south boundary looking northeast



South-central boundary looking northwest

Basin 202 Alt 3



**Interchange Basin Alt 1
South boundary looking north**



**Interchange Basin Alt 2
Near southeast corner looking north**



Basin 203 Alt 1
Landscape and concrete debris
West boundary looking north



Basin 203 Alt 2
Near northwest corner looking southeast



Basin 203 Alt 3
Near northwest corner looking south



Basin 204 Alt 1
Near southeast corner looking north
(left side of photo)



Basin 204 Alt 2



Near east boundary looking west



Cattle pen in central area looking north

Basin 204 Alt 3



Basin 205 Alt 1
Near southwest corner looking north



Basin 205 Alt 2
Central area looking south



AST and truck along south boundary



South boundary looking north

Basin 205 Alt 3



Basin 206 Alt 1

South area looking north



Basin 206 Alt 2
Near east boundary looking south



Basin 206 Alt 3
Near south boundary looking north

GENERAL SITE PHOTOGRAPHS



**Osceola Polk Line Road (CR 532) looking west
Southern portion of project**

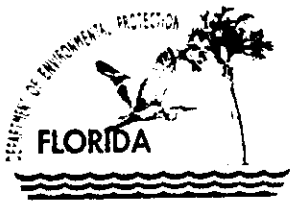


I-4, near east project limit looking west

APPENDIX F SUPPLEMENTAL INFORMATION

Site 1 – Groves/Crops

Station 419-427



Department of Environmental Protection

5

Lawton Chiles
Governor

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Virginia B. Wetherell
Secretary

BY CERTIFIED MAIL
RETURN RECEIPT REQUESTED
Z 187 183 032

Mr. Francis X. Heidrich, III
Post Office Box 151059
Altamonte Springs, FL 32715-1059

OCD-WCU-97-0400

Osceola County - WCU
Magnolia Creek East Residential Development
Kissimmee, Florida
No Further Action

Dear Mr. Heidrich:

The Department has reviewed the well abandonment reports received September 30, 1997 and concludes that they provide reasonable assurance that MW-1, MW-2, MW-3, and MW-4 monitoring wells used in the contamination assessment have been properly abandoned. Therefore, you are released from any further obligation to conduct corrective actions in the vicinity of these monitoring wells at the Magnolia Creek East Residential Development facility, except as set forth below

If subsequent exceedences of state standards and/or minimum criteria for G-II ground water quality attributable to your activities at the subject site are discovered, the Department may require additional corrective actions.

Persons whose substantial interests are affected by the Site Rehabilitation Completion Order have the right to challenge the Department's decision. Such challenge may include filing a petition for an administrative determination (hearing) as described in the following paragraphs. However, pursuant to Chapter 62-103 Florida Administrative Code, you may request an extension of time to file the Petition. All requests for extension of time or petitions for administrative determinations must be filed directly to the Department's Office of General Counsel at the address given below within twenty-one (21) days of receipt of this notice.

Notwithstanding the above, a person whose substantial interests are affected by the Site Rehabilitation Completion Order may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes (F.S.). The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32299-2400, within twenty-one (21) days of receipt of this Notice. Failure to file a

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioned, and the name and address of the facility;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by each petitioner, if any;
- (e) A statement of facts which each petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes each petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by each petitioner, stating precisely the action each petitioner wants the Department to take with respect to the Department's action or proposed action.

This Site Rehabilitation Completion Order is final and effective on the date of receipt of this Order unless a petition (or time extension) is filed in accordance with preceding paragraphs. Upon timely filing of a petition, this Order will not be effective until further order of the Department.

When the Order is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32299-2400; and by filing a copy of the Notice of Appeal, accompanied by the application filing fees, with the appropriate District Court of Appeal. This Notice of Appeal must be filed within thirty (30) days from the date the Final Order is filed with the Clerk of the Department.

Please be advised that mediation of this decision, pursuant to Section 120.573 F.S., is available.

If you have any questions regarding this issue please contact James B. Russell, P.E., in the Department's Central District office at (407) 893-3331. Contact with the above named person does not constitute a petition for administrative determination.

Sincerely,



Vivian F. Garfein
Director of District Management

Date October 29, 1997



VFG/gbl/jbr

cc: Peter Barts, P.G. - HSA



Department of Environmental Protection

Lawton Chiles
Governor

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Virginia B. Wetherell
Secretary

August 18, 1997

BY CERTIFIED MAIL
RETURN RECEIPT REQUESTED
P 571 521 939

Mr. Francis X. Heidrich, III
Post Office Box 151059
Altamonte Springs, FL 32715-1059

OCD-WCU-97-0322

Osceola County - WCU
Magnolia Creek East Residential Development
Kissimmee, Florida
Response to Comments and Waste Disposal Manifests

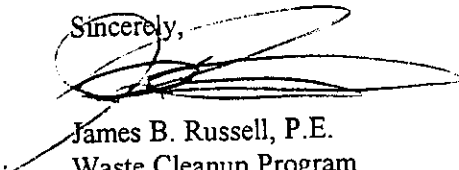
Dear Mr. Heidrich:

The Department has reviewed the Response to Comments and Waste Disposal Manifests received May 7, 1997 and August 13, 1997 respectively, and finds them acceptable. Thank you for your cooperation in addressing the situation at the above-referenced site. Based upon remedial activities and the results of ground water sampling, the Department has determined that a No Further Action status would be appropriate for this site.

Within 30 days of receipt of this letter, please properly abandon all ground water monitoring wells which were installed as part of this investigation in accordance with Rule 62-532.500(4) Florida Administrative Code and provide the Department with sufficient documentation to verify well abandonment. The Department will review the abandonment documentation and upon its determination that proper abandonment has been performed, will provide written confirmation that a No Further Action status has been granted to the Magnolia Creek East site.

If you have any questions concerning this correspondence please call me at (407) 894-7555.

Sincerely,


James B. Russell, P.E.
Waste Cleanup Program

JBR/gbl/jbr
hile

cc: Peter T. Barts, P.G. - HSA, Inc.

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

From: Peter Barts To: P.E. Mr. James Russell

Date: 7/22/97 Time: 14:39:55

Page 1 of 2

5

FACSIMILE COVER PAGE

To: P.E. Mr. James Russell
From: Peter Barts
Subject: Heidrich/Magnolia Creek Site Location Map
Pages (including cover): 2

Time: 14:39:44
Date: 07/22/97

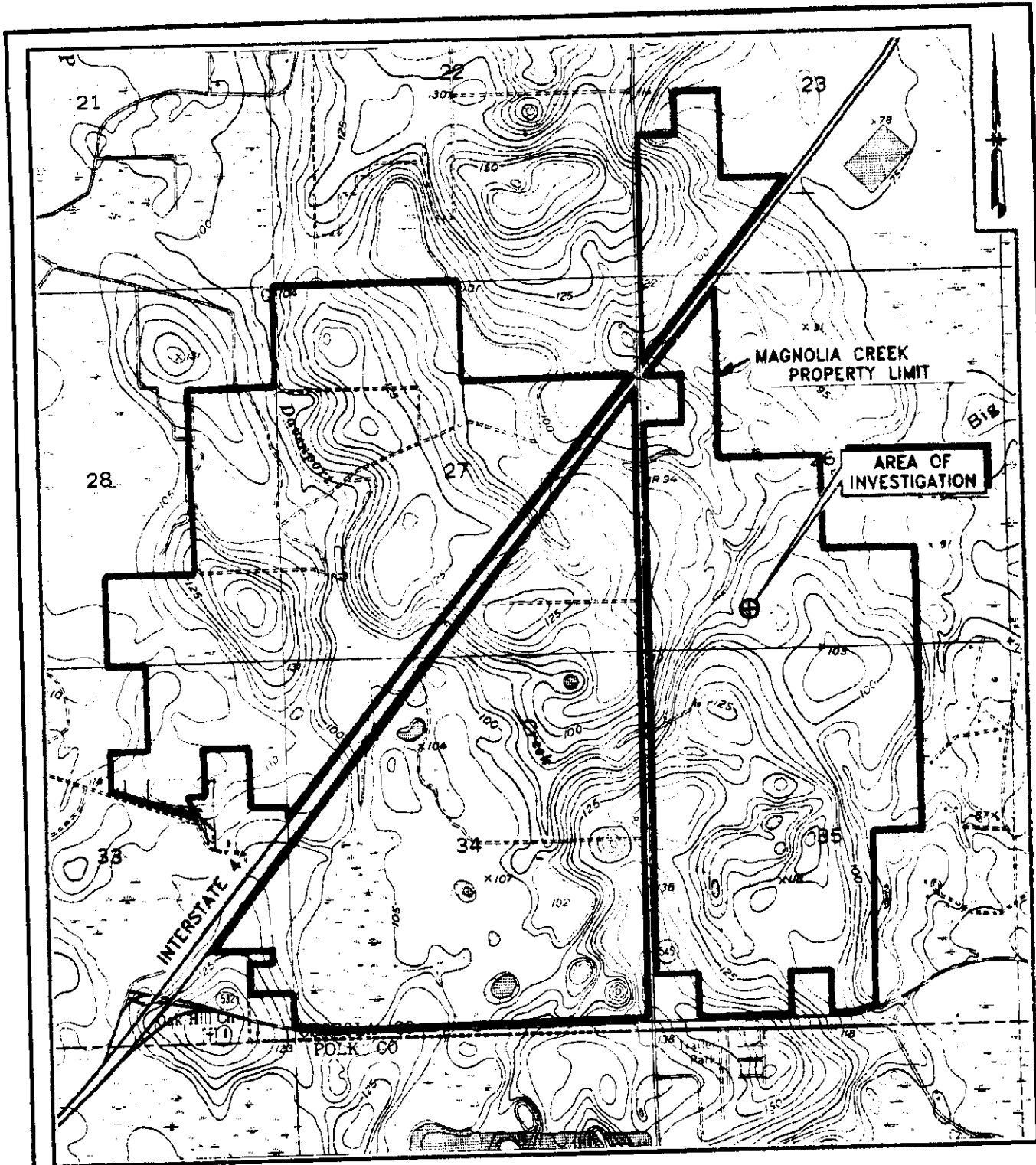
Jim:

Here's the map you requested. Please let me know if you need anything else.

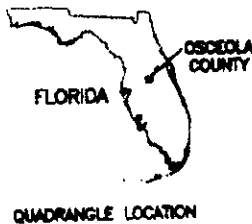
Regards,

Pete Barts

E



SOURCE: USGS 7.5' INTERCESSION CITY, FLORIDA QUADRANGLE MAP 1980



PROJ. NO.: 1092-386

DATE: 6/96

SCALE: 1" = 2000'



HSA, INC.

SITE VICINITY MAP

FIGURE 1



HSA, INC.

Environmental and Engineering Services

Hildebrand - Sims, Albergo & Associates, Inc.

August 7, 1997

Florida Department of Environmental Protection
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767



Attention: *Mr. James Russell, P.E.*
Waste Cleanup Program

Subject: Ethion Issue
Magnolia Creek Property
Osceola County, Florida
Project No. 1092-386

Dear Mr. Russell:

On behalf of Herman J. Heidrich & Sons, HSA, Inc., is pleased to provide the Department with documentation of the removal and proper disposal of contaminated soil excavated from the above-referenced site. Our report to you of June 14, 1996, indicated that approximately 100 cubic yards of soil had been excavated and stockpiled. This soil has now been removed and disposed of properly. It is noted that although ethion was initially detected and remediated within groundwater at the site, chlordane was detected within soil at concentrations which required removal.

On July 8, 1997, HSA observed the removal of 162.1⁶ tons of chlordane-contaminated soil from the site. Material loading, transportation, and disposal were contracted through Florida Environmental Compliance Corporation. Material was transported as non-hazardous waste and disposed at Waste Management Inc.'s Class I landfill in Pompano Beach, Florida.

As a component of the landfill approval process for soil disposal, one soil sample was collected from the soil stockpile and chemically analyzed for TCLP chlordane. Results (Attachment A) indicate that chlordane was not detected. Landfill manifests and associated weight tickets are provided as Attachment B.

All stockpiled soil has now been removed from the site and disposed of properly. This task represents the culmination of work begun at the site in late 1995 and was the only outstanding issue as of our last report to you of May 5, 1997. We recommend that no additional investigations be performed, and we request that the Department issue No Further Action status to this site.

Thank you for your attention to this matter. Please feel free to contact this office if you have any questions or comments regarding the information provided herein.



Sincerely,

HSA, Inc.

Peter T. Barts, P.G.
Senior Hydrogeologist

8/7/97

Attachments

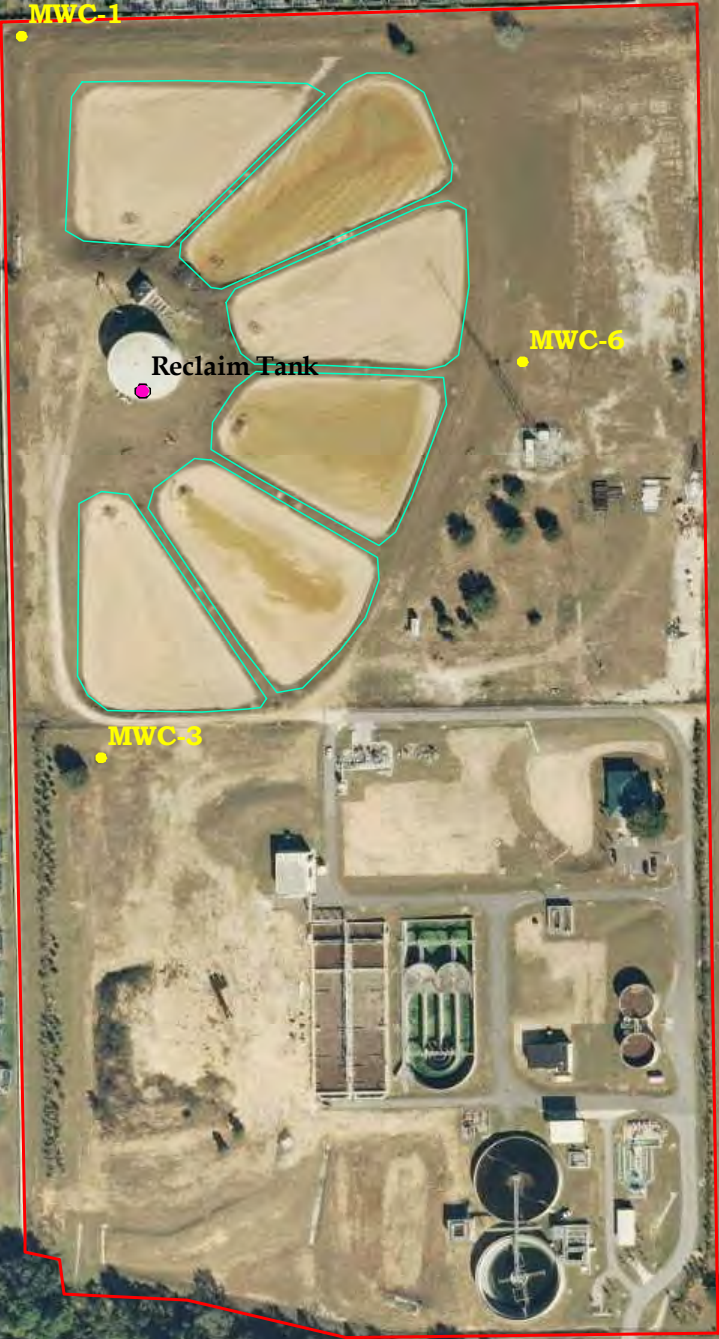
Copy to: Mr. Francis X. Heidrich Jr.

Site 19 – Sand Hill WWTP

3211 Sand Hill Road

8200 Sand Hill Road

FLA010958 TWA Sandhill WRF

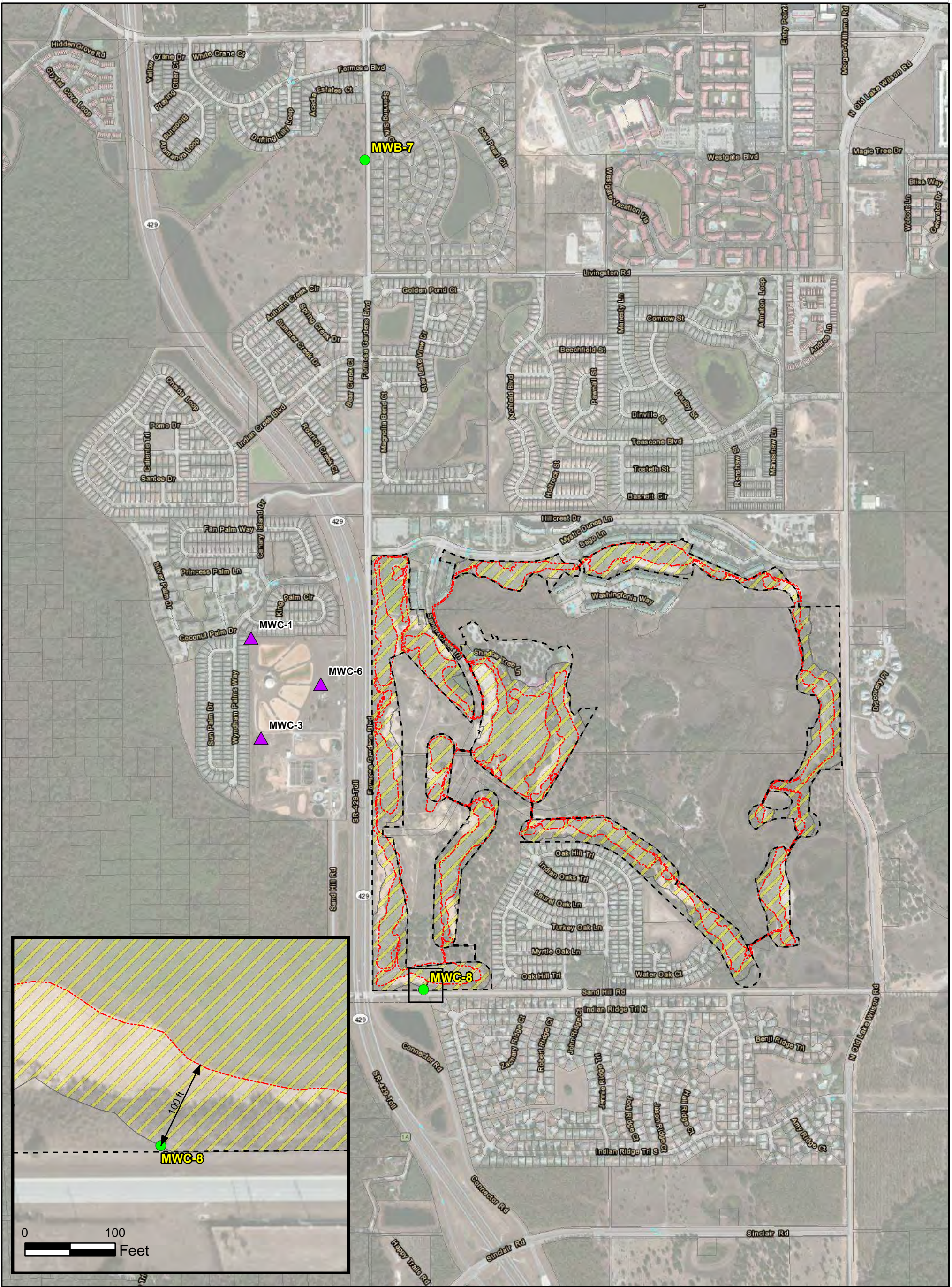


0 195 390 780 Feet

Aerial Imagery FDEP 2005-2009 Map created by SML

Legend

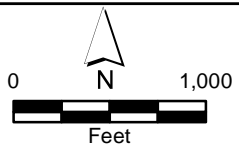
- Monitoring Wells
- ▭ Land Application
- ▭ Facility Fence



Source: Polk and Osceola County Property Appraiser Parcel Data; ESRI Aerial Imagery

- | | | |
|--|----------------------------------|----------------------------------|
| Mystic Dunes Golf Club Property Boundary | Monitor Well Location | Osceola County Parcel Boundaries |
| Wetted Edge | Existing Wells (To Be Abandoned) | |
| Zone of Discharge | MWC-2 100' setback | |

P:\IER\08466\200-08466-13002\GIS\Maps\BPL_F1_final.mxd
[alex.montalvo 4/23/2013]



Sandhill Road WRF GWMP/Toho Water Authority
Proposed Model Compliance and Background Monitoring Well Sites

FIGURE
1

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART D

Facility Name:	TWA - Sandhill Road WWTF	Monitoring Well ID: MWB-7	New background well @ Slow Rate Public Access Reuse Site
Permit Number:	FLA010958018DW1P	Well Type: Background	Report Frequency: Quarterly
Facility County:	OSCEOLA		Program: Domestic
Office:	CD		

Was the well purged before sampling? Yes

Monitoring Period: From: 10/01/2021 To: 12/31/2021
 Sample Date: 12/20/2021 Sample Time: 12:55 PM

Parameter	PARAM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545	100.05	Report (Maximum)	ft	In Situ	1 Quarterly	DNP	DEP-SOP	DNP	N
Nitrogen, Nitrate, Total (as N)	00620	0.032	Report (Maximum)	mg/L	Grab	1 Quarterly	0.01	EPA353.1	DNP	N
Solids, Total Dissolved (TDS)	70295	27.0	Report (Maximum)	mg/L	Grab	1 Quarterly	2.5	EPA 160.1	DNP	N
Chloride (as Cl)	00940	6.5	Report (Maximum)	mg/L	Grab	1 Quarterly	0.3	EPA 325.2	DNP	N
Coliform, Fecal	74055	1.0	Report (Maximum)	#/100mL	Grab	1 Quarterly	1	SM 9222D	DNP	N
pH	00400	5.6	Report (Maximum)	s.u.	Grab	1 Quarterly	0.1	EPA 150.1	DNP	N
Turbidity	00070	3.9	Report (Maximum)	NTU	Grab	1 Quarterly	0.05	EPA 180.1	DNP	N

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Tim Burton	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Electronically Signed	TELEPHONE (407) 709-0724	SUBMITTED ON 01/20/2022
--	---	---	---------------------------------	--------------------------------

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART D

Facility Name:	TWA - Sandhill Road WWTF	Monitoring Well ID: MWC-1	SAND HILL ROAD/MW-1 COMPLIANCE
Permit Number:	FLA010958018DW1P	Well Type: Compliance	Report Frequency: Quarterly
Facility County:	OSCEOLA		Program: Domestic
Office:	CD		

Monitoring Period: From: 10/01/2021 To: 12/31/2021

Was the well purged before sampling? Yes

Sample Date: 12/13/2021 Sample Time: 01:33 PM

Parameter	PARAM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545	105.88	Report (Maximum)	ft	In Situ	1 Quarterly	DNP	DEP-SOP	GRAB	N
Nitrogen, Nitrate, Total (as N)	00620	3.2	10.0 (Maximum)	mg/L	Grab	1 Quarterly	0.01	EPA353.1	GRAB	N
Solids, Total Dissolved (TDS)	70295	342	500.0 (Maximum)	mg/L	Grab	1 Quarterly	2.5	EPA 160.1	GRAB	N
Chloride (as Cl)	00940	76.3	250.0 (Maximum)	mg/L	Grab	1 Quarterly	0.3	EPA 325.2	GRAB	N
Coliform, Fecal	74055	1.0	4.0 (Maximum)	#/100mL	Grab	1 Quarterly	1	SM 9222D	GRAB	N
pH	00400	6.9	6.5-8.5 (Range)	s.u.	Grab	1 Quarterly	0.1	EPA 150.1	GRAB	N
Turbidity	00070	0.25	Report (Maximum)	NTU	Grab	1 Quarterly	0.05	EPA 180.1	GRAB	N

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Tim Burton	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Electronically Signed	TELEPHONE (407) 709-0724	SUBMITTED ON 01/20/2022
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DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART D

Facility Name:	TWA - Sandhill Road WWTF	Monitoring Well ID: MWC-3	SAND HILL ROAD/MW-3 COMPLIANCE
Permit Number:	FLA010958018DW1P	Well Type: Compliance	Report Frequency: Quarterly
Facility County:	OSCEOLA		Program: Domestic
Office:	CD		

Monitoring Period: From: 10/01/2021 To: 12/31/2021

Was the well purged before sampling? Yes

Sample Date: 12/13/2021 Sample Time: 12:53 PM

Parameter	PARAM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545	106.62	Report (Maximum)	ft	In Situ	1 Quarterly	DNP	DEP-SOP	GRAB	N
Nitrogen, Nitrate, Total (as N)	00620	18.2	10.0 (Maximum)	mg/L	Grab	1 Quarterly	0.01	EPA 353.1	GRAB	N
Solids, Total Dissolved (TDS)	70295	448	500.0 (Maximum)	mg/L	Grab	1 Quarterly	2.5	EPA 160.1	GRAB	N
Chloride (as Cl)	00940	62.5	250.0 (Maximum)	mg/L	Grab	1 Quarterly	0.3	EPA 325.2	GRAB	N
Coliform, Fecal	74055	1.0	4.0 (Maximum)	#/100mL	Grab	1 Quarterly	1	SM 9222D	GRAB	N
pH	00400	6.9	6.5-8.5 (Range)	s.u.	Grab	1 Quarterly	0.1	EPA 150.1	GRAB	N
Turbidity	00070	11.0	Report (Maximum)	NTU	Grab	1 Quarterly	0.05	EPA 180.1	GRAB	N

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Tim Burton	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Electronically Signed	TELEPHONE (407) 709-0724	SUBMITTED ON 01/20/2022
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DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART D

Facility Name:	TWA - Sandhill Road WWTF	Monitoring Well ID: MWC-6	SAND HILL ROAD/MW-6 COMPLIANCE
Permit Number:	FLA010958018DW1P	Well Type: Compliance	Report Frequency: Quarterly
Facility County:	OSCEOLA		Program: Domestic
Office:	CD		

Monitoring Period: From: 10/01/2021 To: 12/31/2021

Sample Date: 12/13/2021 Sample Time: 02:36 PM

Was the well purged before sampling? Yes

Parameter	PARAM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545	106.08	Report (Maximum)	ft	In Situ	1 Quarterly	DNP	DEP-SOP	GRAB	N
Nitrogen, Nitrate, Total (as N)	00620	12.5	10.0 (Maximum)	mg/L	Grab	1 Quarterly	0.01	EPA 353.1	GRAB	N
Solids, Total Dissolved (TDS)	70295	446	500.0 (Maximum)	mg/L	Grab	1 Quarterly	2.5	EPA 160.1	GRAB	N
Chloride (as Cl)	00940	68.1	250.0 (Maximum)	mg/L	Grab	1 Quarterly	0.3	EPA 325.2	GRAB	N
Coliform, Fecal	74055	1.0	4.0 (Maximum)	#/100mL	Grab	1 Quarterly	1	SM 9222D	GRAB	N
pH	00400	6.7	6.5-8.5 (Range)	s.u.	Grab	1 Quarterly	0.1	EPA 150.1	GRAB	N
Turbidity	00070	22.0	Report (Maximum)	NTU	Grab	1 Quarterly	0.05	EPA 180.1	GRAB	N

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Tim Burton	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Electronically Signed	TELEPHONE (407) 709-0724	SUBMITTED ON 01/20/2022
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DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART D

Facility Name:	TWA - Sandhill Road WWTF	Monitoring Well ID: MWC-8	New compliance well @ Slow Rate Public Access Reuse Site
Permit Number:	FLA010958018DW1P	Well Type: Compliance	Report Frequency: Quarterly
Facility County:	OSCEOLA		Program: Domestic
Office:	CD		

Was the well purged before sampling? Yes

Monitoring Period: From: 10/01/2021 To: 12/31/2021
 Sample Date: 12/13/2021 Sample Time: 03:17 PM

Parameter	PARAM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545	101.29	Report (Maximum)	ft	In Situ	1 Quarterly	DNP	DEP-SOP	DNP	N
Nitrogen, Nitrate, Total (as N)	00620	13.1	10.0 (Maximum)	mg/L	Grab	1 Quarterly	0.01	EPA 353.1	DNP	N
Solids, Total Dissolved (TDS)	70295	269	500.0 (Maximum)	mg/L	Grab	1 Quarterly	2.5	EPA 160.1	DNP	N
Chloride (as Cl)	00940	36.2	250.0 (Maximum)	mg/L	Grab	1 Quarterly	0.3	EPA 325.2	DNP	N
Coliform, Fecal	74055	1.0	4.0 (Maximum)	#/100mL	Grab	1 Quarterly	1	SM 9222D	DNP	N
pH	00400	6.7	6.5-8.5 (Range)	s.u.	Grab	1 Quarterly	0.1	EPA 150.1	DNP	N
Turbidity	00070	50.0	Report (Maximum)	NTU	Grab	1 Quarterly	0.05	EPA 180.1	DNP	N

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Tim Burton	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Electronically Signed	TELEPHONE (407) 709-0724	SUBMITTED ON 01/20/2022
--	---	---	---------------------------------	--------------------------------

Chris Garth

From: Amber Morgan <AMORGAN@tohowater.com>
Sent: Tuesday, March 29, 2022 11:38 AM
To: Chris Garth
Cc: Environmental
Subject: RE: Groundwater Monitoring Report Request _ Sand Hill WWTP _ Osceola County

I could easily send you years of the quarterly summary reports submittals. (the lab analysis reports would be harder to dig up). We do not have an annual-type GW report, not much other testing, certainly not GW flow direction.

From: Chris Garth <cgarth@tierraeng.com>
Sent: Tuesday, March 29, 2022 11:14 AM
To: Amber Morgan <AMORGAN@tohowater.com>
Subject: FW: Groundwater Monitoring Report Request _ Sand Hill WWTP _ Osceola County

Also, if there is an annual or semi-annual groundwater monitor report that is more comprehensive in testing & includes maps, groundwater flow, etc...I would like to request it as well.

Thanks,

Chris Garth, LEP

TIERRA, INC.

T 813.989.1354 | F 813.989.1355 | C 813.766.0269

geotechnical environmental materials engineering

From: Chris Garth
Sent: Tuesday, March 29, 2022 11:08 AM
To: Amber Morgan <AMORGAN@tohowater.com>
Subject: RE: Groundwater Monitoring Report Request _ Sand Hill WWTP _ Osceola County

Thanks Amber...would you please also provide a map that depicts the location of each monitor well?

Chris Garth, LEP

TIERRA, INC.

T 813.989.1354 | F 813.989.1355 | C 813.766.0269

geotechnical environmental materials engineering

From: Amber Morgan <AMORGAN@tohowater.com>
Sent: Tuesday, March 29, 2022 10:47 AM
To: Chris Garth <cgarth@tierraeng.com>; TOHO Customer Service <customerservice@tohowater.com>
Cc: Environmental <Environmental@tohowater.com>
Subject: RE: Groundwater Monitoring Report Request _ Sand Hill WWTP _ Osceola County

Mr Garth: see attached for last Sandhill GMMW Reports. Address was changed to 8200 Sandhill Road.

Customer Service: subject request taken care of.

From: Chris Garth <cgarth@tierraeng.com>
Sent: Monday, March 28, 2022 6:22 PM
To: Amber Morgan <AMORGAN@tohowater.com>
Cc: Environmental <Environmental@tohowater.com>
Subject: Re: Groundwater Monitoring Report Request _ Sand Hill WWTP _ Osceola County

Amber, I am thinking both please.

Sent via the Samsung Galaxy S10e, an AT&T 5G Evolution capable smartphone
Get [Outlook for Android](#)

From: Amber Morgan <AMORGAN@tohowater.com>
Sent: Monday, March 28, 2022 5:31:19 PM
To: Chris Garth <cgarth@tierraeng.com>
Cc: Environmental <Environmental@tohowater.com>
Subject: RE: Groundwater Monitoring Report Request _ Sand Hill WWTP _ Osceola County

Mr Garth,
Were you interested in the complete lab analysis report or the summary of the data report submitted to regulators?

From: Amber Morgan
Sent: Monday, March 28, 2022 3:50 PM
To: 'Chris Garth' <cgarth@tierraeng.com>
Cc: Environmental <Environmental@tohowater.com>
Subject: RE: Groundwater Monitoring Report Request _ Sand Hill WWTP _ Osceola County

Thank you for contacting me. Yes you have the right person. I will look up that report for you hopefully in the next couple days.

From: Chris Garth <cgarth@tierraeng.com>
Sent: Monday, March 28, 2022 10:24 AM
To: Amber Morgan <AMORGAN@tohowater.com>
Cc: Environmental <Environmental@tohowater.com>
Subject: FW: Groundwater Monitoring Report Request _ Sand Hill WWTP _ Osceola County

Amber,
I found your name on some documents in some online files & figured I'd give you a try...please see my request below which was directed to Customer Service.
Please call or email if you have questions.
Thanks,
Chris Garth, LEP

TIERRA, INC.
T 813.989.1354 | F 813.989.1355 | C 813.766.0269
[geotechnical](#) [environmental](#) [materials](#) [engineering](#)

From: Chris Garth
Sent: Monday, March 28, 2022 9:53 AM
To: customerservice@tohowater.com
Subject: Groundwater Monitoring Report Request _ Sand Hill WWTP _ Osceola County

Good Morning,

I am performing a contamination evaluation on behalf of the Florida Turnpike Enterprise for a project corridor located adjacent to your Sand Hill WWTP facility. Would you please provide a pdf copy of the most recent groundwater monitoring report for this facility? Or direct me to the proper contact for this request?

I have found multiple names/addresses for this facility...so I'm not sure which address to look for:

Sand Hill WWTP
3211 Sand Hill Road

Kissimmee City-Sand Hill WWTP
8000 Sand Hill Road

KISSIMMEE City- WWTP
300 Sand Hill Road

Please call or email if you have questions.

Thanks,
Chris Garth, LEP
Senior Scientist

TIERRA, INC.

7351 Temple Terrace Highway | Tampa, Florida 33637
T 813.989.1354 | F 813.989.1355 | C 813.766.0269
cgarth@tierraeng.com | www.tierraeng.com
geotechnical environmental materials engineering

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Site 22 – Best Diversified, Inc./P&D Landfill
945 Old Lake Wilson Road



FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

CENTRAL DISTRICT
3319 MAGUIRE BOULEVARD, SUITE 232
ORLANDO, FLORIDA 32803

RICK SCOTT
GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

November 19, 2013

Mr. Steve Ivins – Sivins@Xenturycity.com
Mr. Dimitri N. Toumazos – Dtouzamos@xenturycity.com
Xentury City Development Company, L.C.
7575 Dr. Phillips Blvd., Suite 260
Orlando, FL 32819

OCD SW 13-4526

Osceola County- SW
Best Diversified C&D Facility (aka P&D Landfill) WACS ID #26040
Completion of Agreement for Closure OGC #96-0520

Dear Mssr. Ivins and Toumazos:

The Department has reviewed the following documents:

1. The Atkins North America Holdings Corporation (Atkins) document “RE: Agreement for Closure of Former C&D Landfill 945 Old Lake Wilson Road, Kissimmee, Osceola County, Florida, OGC No. 96-0520,” dated July 12, 2013. The document was signed and sealed by David E. Deans, P.E. The report documented the actions taken to properly cap the disposal area. David Deans signed and sealed the Certification of Construction Completion form (Attachment B of the document) regarding the closure activities. The Department concurs the facility has been closed in accordance with the Agreement.
2. Atkins document “Summary of Water Quality Data – January 2011 – July 2013,” dated August 23, 2013. It was signed and sealed by Bradley J. Bayne, P.G. The document concludes, “The results of the water quality sampling events at the BDL [Best Diversified Landfill] conducted between January 2011 and June 2013 suggest that the landfill is having minimal effect on the groundwater and surface water quality on the property. Water quality data from these five sampling events suggest that the landfill is very stable, with respect to its impacts on the groundwater and surface water.” The Department concurs with this conclusion.
3. FDEP’s 06/24/2013 inspection report: The majority of the site showed a good growth of grass/sod. However, several eroded areas were noted. This was due to heavy rainfall during the two days prior to the inspection. The facility's manager requested additional time to repair the damage, and to re-seed the affected areas.

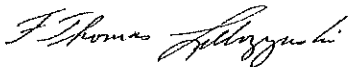
4. FDEP's 09/13/2013 inspection report: The results of the inspection indicated that the repairs to the erosion on east side slopes (which had been observed during the inspection on June 24, 2013) had been completed. The areas were seeded.

Based upon the above documents and the certification by the Professional Engineer of Record, the Department agrees GP SPE has met all the requirements of the "Agreement for Closure of Former C&D Landfill 945 Old Lake Wilson Road, Kissimmee, Osceola County, Florida, OGC No. 96-0520," as amended.

The official closure date for the Best Diversified C&D Facility (aka P&D Landfill), WACS ID #26040, is 9/13/2013. Additional long-term care activities as described in Rule 62-6701.730, F.A.C., including groundwater monitoring, are not required. You must consult with FDEP's Central District before initiating any activities that may disturb the waste.

Please address your response and any questions to Ms. Gloria DePradine of the Central District Office at 407-897-4100 or via e-mail at gloria.depradine@dep.state.fl.us.

Sincerely,



F. Thomas Lubozynski, P.E.
Waste & Air Resource Program Administrator

Copy to:
David E. Deans, P.E., Atkins, Dave.deans@atkinsglobal.com
Bradley J. Bayne, P.G., Atkins, Bradley bayne@atkinsglobal.com



Atkins North America, Inc.
482 South Keller Road
Orlando, Florida 32810-6101

Telephone: +1.407.647.7275

www.atkinsglobal.com/northamerica

August 23, 2013

Mr. Steve Ivins
Xentury City Development Company, L.C.
7575 Dr. Phillips Blvd., Suite 260
Orlando, FL 32819

**Re: Summary of Water Quality Data – January 2011 through June 2013
Former Best Diversified Landfill, Inc. Property
Kissimmee, Osceola County, Florida
WACS_FACILITY: 26040**

Dear Mr. Ivins:

Atkins is pleased to submit this summary of the water quality data for the former Best Diversified Landfill (BDL) property. The water quality data were collected by Atkins during the period from January 2011 to June 2013.

BACKGROUND INFORMATION

The former BDL is located in western Osceola County, approximately ¼-mile east of Old Lake Wilson Road (SR 545), just north of Sinclair Road (**Figure 1**). The property is comprised of approximately 40 acres of land. The site is currently vacant. This property was most recently used as a construction and demolition debris (C&D) landfill called the Best Diversified Landfill, Inc. (Best), which was in operation between 1985 and 1997. Best was administratively dissolved in 1998. The filled area of the site rises approximately 30 to 40 feet above the surrounding grade. The site has recently been cleaned up, re-graded, and final cover placed in the re-graded areas, all in accordance with an Administrative Agreement with the Department. Surface water within the site consists of two storm water retention/detention ponds which are located in the southeast corner of the site. The storm water system discharges off-site to the east to Reedy Creek. According to historical technical reports for the Best facility, groundwater flow is to the east and southeast across the site towards the storm water ponds.

Best installed a network of monitoring wells around the perimeter of the landfill, which were used to monitor the groundwater quality around the landfill. The network includes shallow wells, those designated with an "A", and deep wells, those designated with a "B". Although no historical information was available, the A-designated wells are presumably constructed with their well screens bracketing the water table; the "B" designated wells are presumably constructed with their well screens at the bottom of the surficial aquifer. The locations of the monitoring wells are depicted in **Figure 2**.

Under its previous permit, the landfill also had a surface water monitoring point at one of the surface water ponds located in the southeast corner of the property. The monitoring point was designated SW-1, and its location is depicted on **Figure 2**. During the five sampling events conducted between January 2011 and June 2013, a surface water sample was collected at SW-1; and groundwater samples were collected at monitoring wells MW-8, MW-9A, MW-9B, MW-10A, MW-10B, MW-11A, MW-11B, MW-12A, MW-12B, MW-13A, and MW-13B.

SAMPLE COLLECTION METHODOLOGY

Atkins representatives performed the groundwater and surface water sample collection activities on an approximately semi-annual basis between January 2011 and June 2013. The samples were collected in general accordance with the Florida Department of Environmental Protection's (FDEP's) Standard Operating Procedures for Field Activities (SOP 001/01). Monitoring wells MW-9A, MW-9B, MW-10A, MW-10B, MW-11A, MW-11B, MW-12A, MW-12B, MW-13A, and MW-13B were purged and sampled with a peristaltic pump, and monitoring well MW-8 was purged and sampled with a submersible pump. All the wells were purged using the "low-flow" method. Temperature, pH, conductivity, dissolved oxygen (DO), and turbidity readings were measured intermittently throughout the purging process. The groundwater samples were collected directly from the pump tubing. Volatile organic compounds (VOCs) were collected using the "reverse flow peristaltic pump" method. The surface water sample was also collected with the use of a peristaltic pump. Copies of the groundwater sampling logs and laboratory reports associated with each sampling event are on file with FDEP.

SUMMARY OF SEMI-ANNUAL SAMPLING RESULTS

Summary of Groundwater Flow Data

The elevations of the top of the well casings of the wells in the monitoring network were surveyed by Atkins' professional surveyors in June 2010. The top-of-casing elevations were used as measuring points to determine the elevation of the groundwater at each well. **Table 1** summarizes the results of the measurements of the water levels at each monitoring well during each of the five sampling events. The groundwater elevations at all of the shallow monitoring wells in the network during each sampling event were plotted and contoured to evaluate the groundwater flow direction within the shallow (surficial) groundwater aquifer at the time of the sampling event. The deep wells were not plotted because the groundwater elevations at these wells do not necessarily reflect the elevation of the water table. **Appendix A** provides the hydrographs for the monitoring wells that are screened at the top of the surficial aquifer (MW-8, MW-9A, MW-10A, MW-11A, MW-12A, and MW-13A). The hydrographs illustrate the relative water table elevations at each monitoring well for each sampling event.

The groundwater elevation contour maps are depicted in **Figures 3 - 7**. The maps indicate that the water table surface was dipping from the northwest to the southeast across the landfill site, at an average horizontal gradient of approximately 0.0066 feet per foot. The dip direction is an indicator of the direction (southeast) in which groundwater was flowing within the surficial aquifer.

Summary of Groundwater Analytical Results

Tables 2 - 6 summarize the groundwater analytical results for each sampling event between January 2011 and June 2013. During each sampling event, there were several inorganic analytes detected in the groundwater samples, but very few organic analytes were detected. The concentrations of all of the analytes were compared to its Maximum Contaminant Levels (MCLs) or Secondary Drinking Water Standards (SDWS), which are the State water quality standards as promulgated by Chapter 62-550 of the Florida Administrative Code (FAC). Not every analyte has an MCL or SDWS. However, in some of those cases, the concentrations were compared to their Groundwater Cleanup Target Levels (GCTLs), as promulgated in Chapter 62-777, FAC. Some analytes do not have any groundwater quality standards.

Appendix B contains graphs that illustrate the trends for those parameters that were consistently detected at concentrations that exceeded any of their applicable groundwater quality standards. Graphs are provided for aluminum and pH in MW-8, arsenic in MW-9A and MW-9B, sulfate in MW-12, and ammonia-N and Total Dissolved Solids (TDS) in each of the monitoring wells. The following paragraphs describe the detection trends for each of the parameters that exceeded any of the applicable groundwater quality standards:

pH - pH has a SDWS, which is a reading inside of the range between 6.5 and 8.5. The pH reading at well MW-8 was consistently lower than the SDWS range. The pH reading at MW-8 ranged from 4.62 in June 2013 to 5.45 in May and November 2012. MW-8 is the designated background well. The pH was also slightly less than the standard at MW-11B during the June 2013 sampling event.

Aluminum - Aluminum has a SDWS of 0.2 milligrams per liter (mg/l). The aluminum concentration in MW-8 was consistently higher than the SDWS. The aluminum concentration in this well ranged from 0.318 mg/l in November 2011 to 0.632 mg/l in June 2013. The aluminum concentration at MW-8 may be increasing, or the increased concentration may be related to the lower pH value (discussed above). However, since MW-8 is the designated background well, the elevated aluminum concentration and low pH cannot be due to impacts from the landfill.

Ammonia-N - Until recently, the FDEP had an established GCTL for ammonia of 2.8 mg/l. Recently, FDEP issued a Policy Memo, stating the following: that this GCTL is no longer supported by the science used to establish that concentration, that the Environmental

Protection Agency has taken this issue under review, and that FDEP staff should no longer enforce that GCTL. Rather, FDEP's focus regarding ammonia in groundwater will center on whether or not ammonia-laden groundwater is discharging to the surface water, where it may be impacting the surface water quality and causing surface water standard violations. The ammonia-N concentrations at monitoring wells MW-9A, MW-9B, MW-11A, MW-11B, and MW-12A consistently exceeded the GCTL. Ammonia-N concentrations were consistently the highest in MW-11A, and were consistently the lowest in MW-8. As illustrated in the graphs in **Appendix B**, the ammonia-N concentrations in all of the monitoring wells appeared to be stable or were decreasing.

Arsenic – Arsenic has a MCL of 0.01 mg/l. The arsenic concentrations in MW-9A and MW-9B have occasionally been slightly greater than the MCL during the sampling period. The graph in **Appendix B** indicates that the arsenic concentrations in MW-9B have stabilized at levels slightly greater than the MCL, while the arsenic concentrations in MW-9A have stabilized at levels less than the MCL.

Chloromethane – Chloromethane was detected at concentrations exceeding its GCTL of 2.7 micrograms per liter (ug/l) at three monitoring wells (MW-11A, MW-11B, and MW-13B) in May 2012. The highest concentration of chloromethane detected was 4.08 ug/l at MW-11A. Since elevated concentrations of chloromethane were only detected during this one sampling event, the concentrations of chloromethane detected during the May 2012 sampling event appear to have been an anomaly.

Iron – Iron has a SDWS of 0.3 mg/l. Iron exceeded its SDWS only once during the sampling period (at MW-8 during January 2011). MW-8 is the designated background well.

Sulfate – Sulfate has a SDWS of 250 mg/l. The sulfate concentration in MW-12A has generally exceeded the SDWS. The sulfate concentration in MW-12A ranged from 116 mg/l in May 2012 to 602 mg/l in January 2011. The graph in **Appendix B** shows that the sulfate concentration in MW-12A has stabilized.

TDS – TDS has an SDWS of 500 mg/l. The concentration of TDS was higher than the standard in the samples collected at monitoring wells MW-9A, MW-9B, MW-11A, MW-11B, MW-12A, and MW-13A. TDS concentrations were consistently the highest in MW-12A, and were consistently lowest in MW-8. As illustrated in the graphs provided in **Appendix B**, the TDS concentrations in all of the monitoring wells appeared to be stable or were decreasing.

Summary of Surface Water Results

Tables 7 – 11 summarize the surface water analytical results for each sampling event between January 2011 and June 2013. There were several inorganic analytes detected in the surface water. All of the analyte concentrations were compared to their respective

Surface Water Cleanup Target Levels (SWCTLs), as promulgated in Chapter 62-302, FAC. Not every analyte has a SWCTL. From January 2011 through May 2012, the only surface water parameter that was out of compliance was dissolved oxygen, which has a SWCTL of greater than 5 mg/l. The surface water dissolved oxygen concentration was also less than 5 mg/l in November 2012.

During November 2012 and June 2013, the concentration of silver in the surface water was greater than the standard of 0.00007 mg/l. However, it should be noted that the silver concentrations had an "I" qualifier, which indicated the value was less than the practical quantitation limit (PQL) established by the laboratory for silver. In June 2013, mercury was also detected in the surface water at a concentration slightly greater than its SWCTL of 0.000012 mg/l. The concentrations of silver and mercury are so low that there does not appear to be any significant impairment to the surface water quality at this site. No organic compounds were detected in the surface water.

SUMMARY AND CONCLUSIONS

The results of the water quality sampling events at the BDL conducted between January 2011 and June 2013 suggest that the landfill is having minimal effect on the groundwater and surface water quality on the property. Water quality data from these five sampling events suggest that the landfill is very stable, with respect to its impacts on the groundwater and surface water. Although there were generally several inorganic constituent detections in the groundwater and surface water monitoring network, there were only two inorganic analytes in the groundwater that were consistently detected at concentrations in excess of their State water quality standards in most of the monitoring wells. These analytes were ammonia-N and TDS. The graphs provided in **Appendix B** show that the concentrations of these analytes are stable.

Ammonia-N is no longer considered by FDEP to have a GCTL in groundwater. The elevated concentrations of ammonia-N and TDS were generally noted to occur in the same monitoring wells. Based on the surface water quality data, the ammonia in the groundwater is not causing surface water criteria violations. Should you have any questions concerning the contents of this report, please feel free to contact me at (813) 281-8377 or David Deans at (407) 806-4104.

Sincerely,



Bradley J. Bayne, P.G.
Senior Geologist

cc: Gloria Jean Depradine, FDEP Central District (x2)
File, 100024710

TABLES

Table 1
Groundwater Elevation Data Summary
Xentury City Development
Best Diversified Landfill

Monitoring Well	Top-of-Casing Elevation (Ft-NGVD)	Screen Interval Elevation (Ft-NGVD)	Date Measured	Depth-to-Groundwater (feet)	Groundwater Elevation (Ft-NGVD)
MW-8	118.99	NA	January 2011	32.25	86.74
			November 2011	30.57	88.42
			May 2012	32.98	86.01
			November 2012	30.74	88.25
			June 2013	32.80	86.19
MW-9A	80.48	NA	January 2011	3.66	76.82
			November 2011	3.40	77.08
			May 2012	4.20	76.28
			November 2012	3.91	76.57
			June 2013	3.64	76.84
MW-9B	80.47	NA	January 2011	3.63	76.84
			November 2011	3.27	77.20
			May 2012	4.27	76.20
			November 2012	3.98	76.49
			June 2013	3.58	76.89
MW-10A	83.40	NA	January 2011	5.93	77.47
			November 2011	4.95	78.45
			May 2012	6.72	76.68
			November 2012	5.62	77.78
			June 2013	6.10	77.30
MW-10B	83.08	NA	January 2011	5.53	77.55
			November 2011	4.98	78.10
			May 2012	6.65	76.43
			November 2012	5.40	77.68
			June 2013	5.69	77.39
MW-11A	81.91	NA	January 2011	3.90	78.01
			November 2011	3.71	78.20
			May 2012	4.51	77.40
			November 2012	3.85	78.06
			June 2013	3.72	78.19
MW-11B	81.73	NA	January 2011	4.10	77.63
			November 2011	3.82	77.91
			May 2012	4.69	77.04
			November 2012	4.02	77.71
			June 2013	3.89	77.84
MW-12A	82.32	NA	January 2011	4.11	78.21
			November 2011	4.16	78.16
			May 2012	5.44	76.88
			November 2012	4.40	77.92
			June 2013	4.19	78.13
MW-12B	82.55	NA	January 2011	4.05	78.50
			November 2011	3.83	78.72
			May 2012	5.14	77.41
			November 2012	4.25	78.30
			June 2013	4.12	78.43
MW-13A	85.79	NA	January 2011	7.70	78.09
			November 2011	7.38	78.41
			May 2012	7.07	78.72
			November 2012	7.38	78.41
			June 2013	7.35	78.44
MW-13B	85.47	NA	January 2011	7.36	78.11
			November 2011	7.71	77.76
			May 2012	8.01	77.46
			November 2012	7.76	77.71
			June 2013	7.37	78.10

NA = Not Available

FIGURES

K:\BRAD_BAYNE\Xentury City Landfill\Summary Report\drawings\FIGURE 1.dwg Aug 19, 2013 - 11:59am Plotted By: 9327



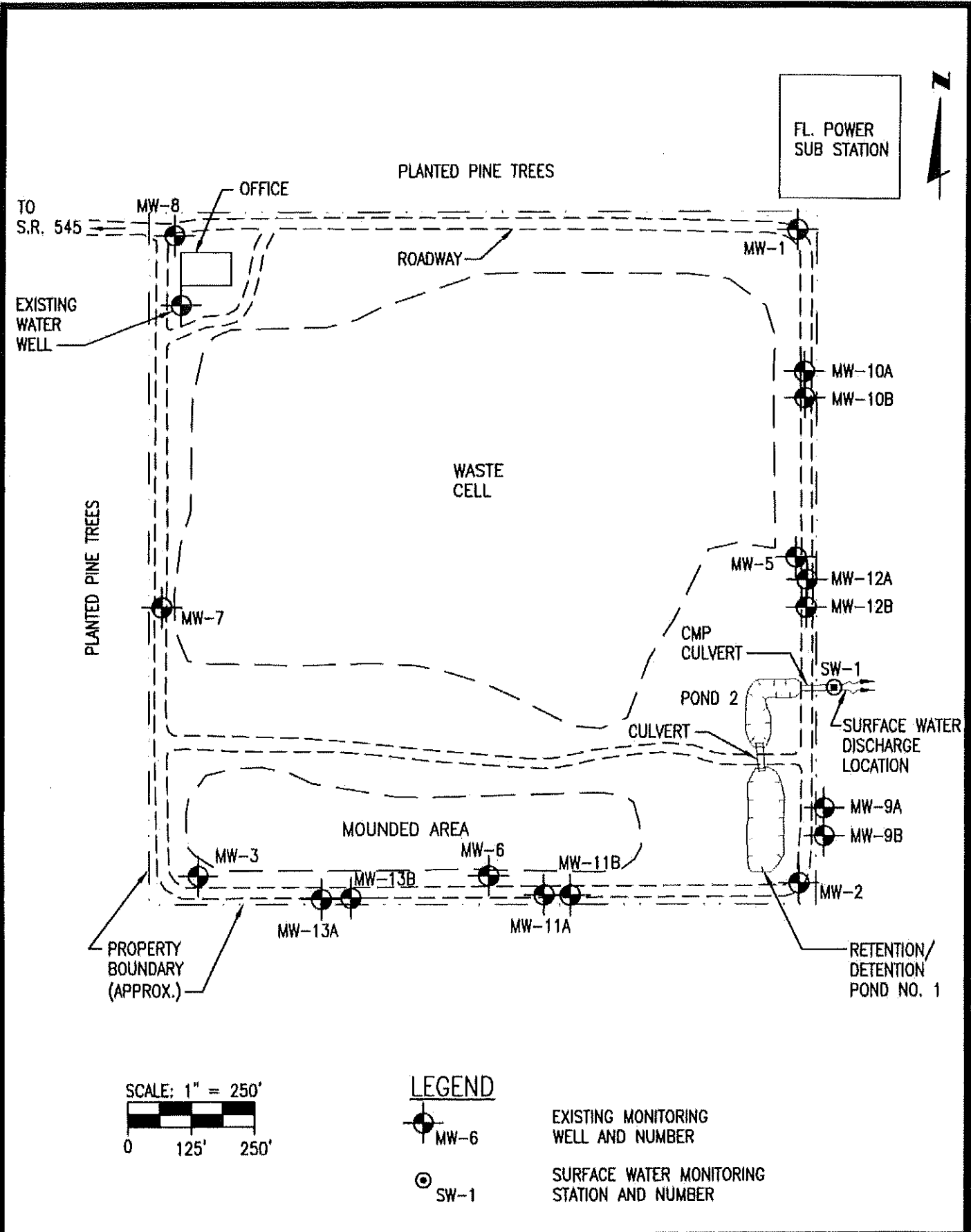
ATKINS

**BEST DIVERSIFIED INC. LANDFILL
KISSIMMEE, OSCEOLA COUNTY,
FLORIDA**

SITE LOCATION MAP

FIGURE 1

K:\BRAD - BAYNE\Century City Landfill\Summary Report\drawings\FIGURE 2.dwg Aug19,2013 - 12:02pm Plotted By: 9327



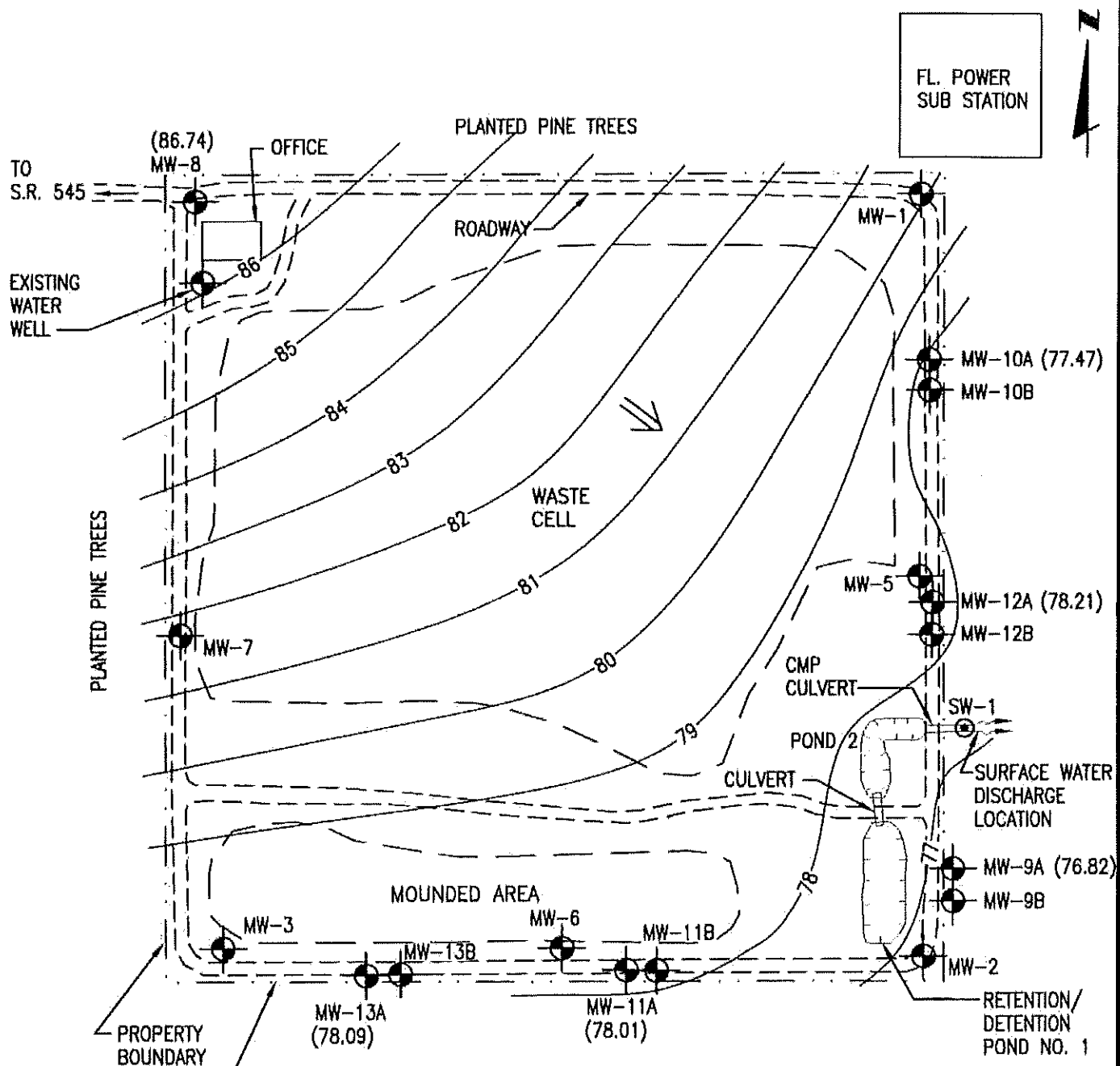
ATKINS

**BEST DIVERSIFIED INC. LANDFILL
KISSIMMEE, OSCEOLA COUNTY,
FLORIDA**

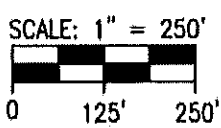
SITE LAYOUT

FIGURE 2

K:\BRAD_BAYNE\Xenlury_City_Landfill\Summary_Report\drawings\FIGURE 3.dwg Aug19,2013 -- 12:03pm Plotted By: 9327



FL. POWER SUB STATION



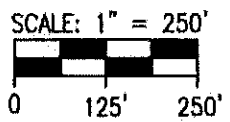
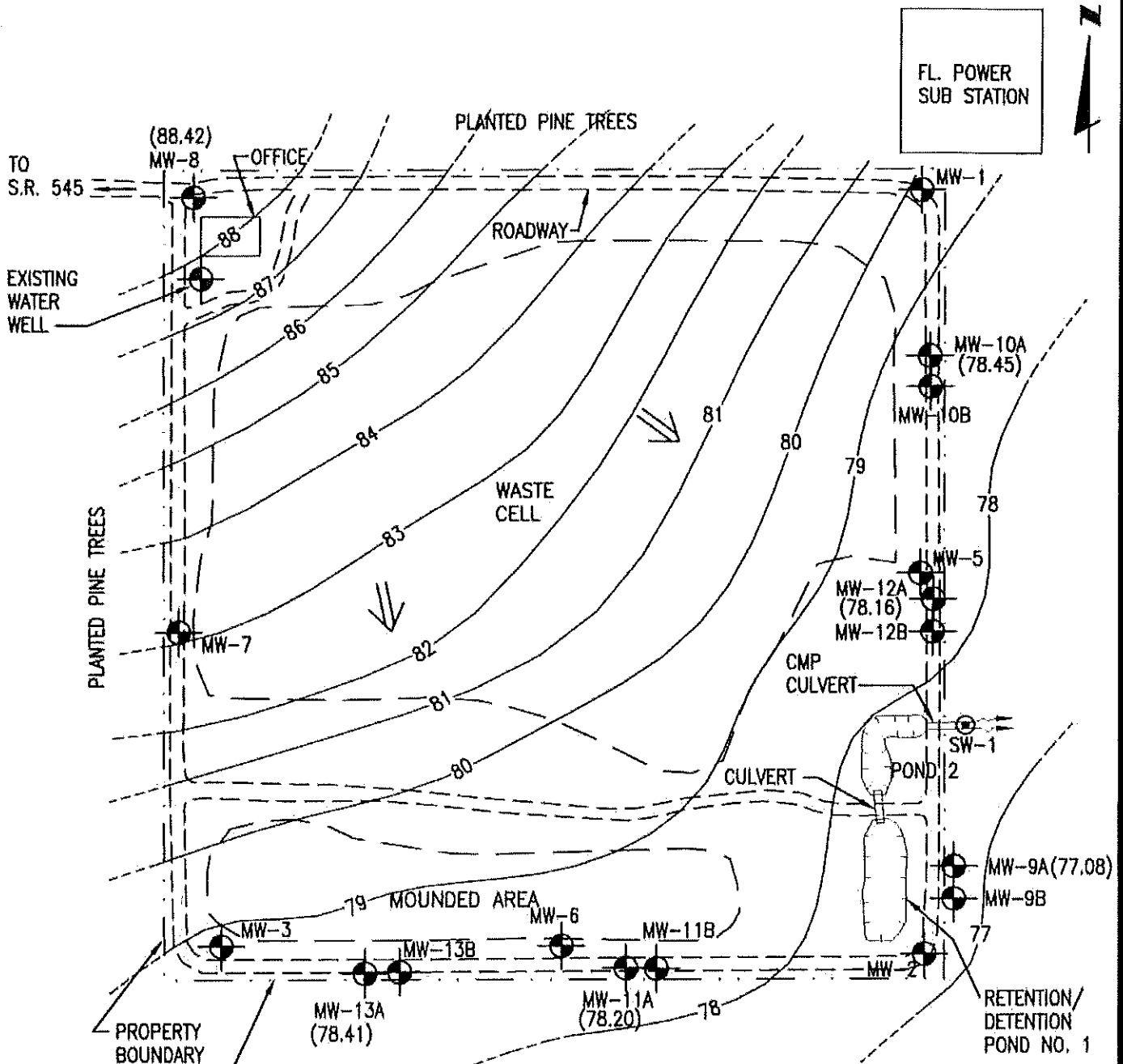
FT-NGVD = FEET ABOVE NATIONAL GEODETIC VERTICAL DATUM

LEGEND

- MW-6 EXISTING MONITORING WELL AND NUMBER WITH GROUNDWATER ELEVATION IN FT/NGVD IN PARENTHESES
- INFERED DIRECTION OF GROUNDWATER FLOW
- 80 GROUNDWATER ELEVATION CONTOUR
- SW-1 SURFACE WATER MONITORING STATION AND NUMBER

<p>ATKINS</p>	<p>BEST DIVERSIFIED INC. LANDFILL KISSIMMEE, OSCEOLA COUNTY, FLORIDA</p>	<p>GROUNDWATER ELEVATION CONTOUR MAP JANUARY 2011</p>	<p>FIGURE 3</p>
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K:\BRAD_BAYNE\Century City Landfill\Summary Report\drawings\FIGURE 4.dwg Aug 19, 2013 12:05pm Plotted By: 9327



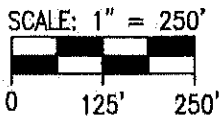
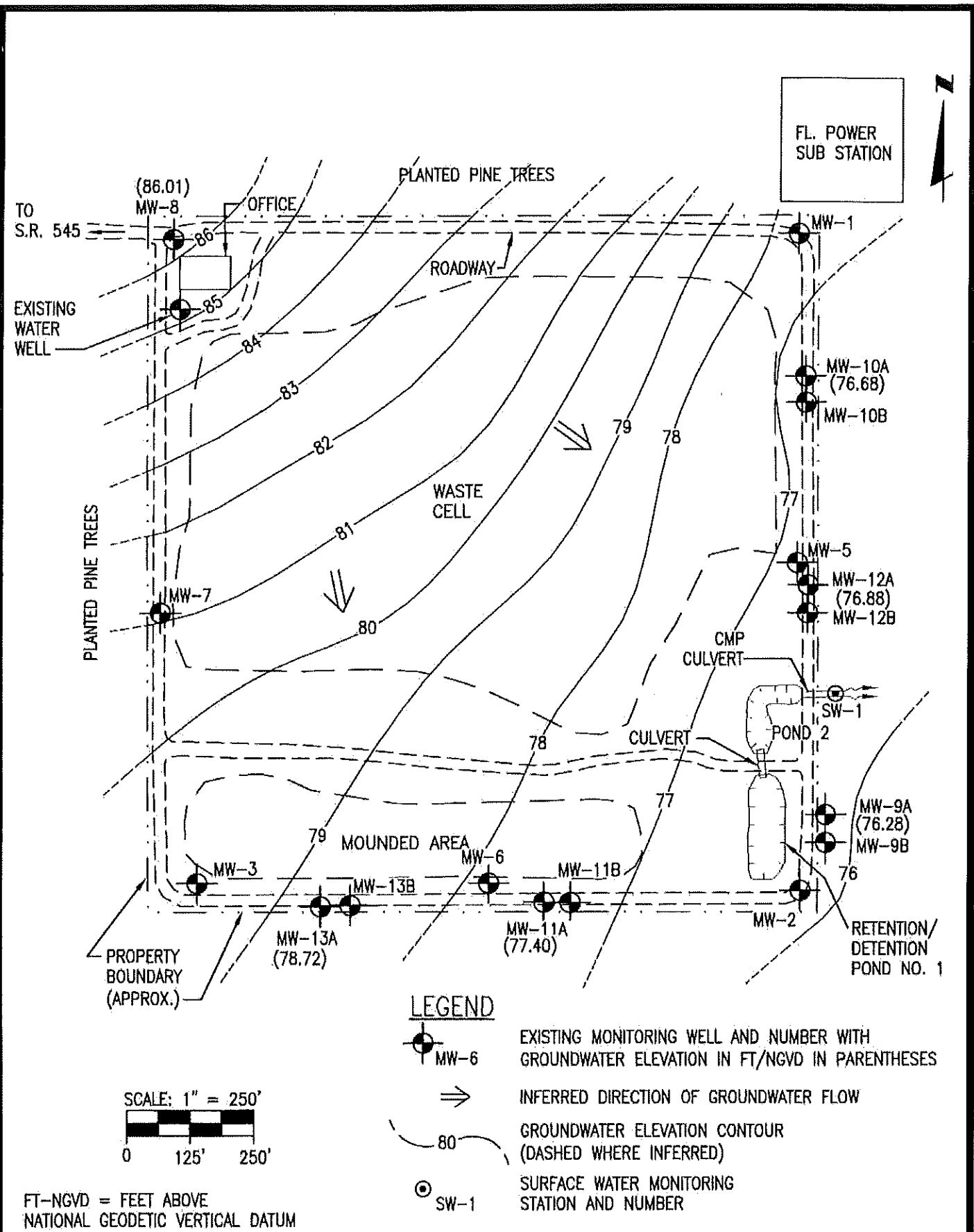
FT-NGVD = FEET ABOVE NATIONAL GEODETIC VERTICAL DATUM

LEGEND

- MW-6 EXISTING MONITORING WELL AND NUMBER WITH GROUNDWATER ELEVATION IN FT/NGVD IN PARENTHESES
- INFERRED DIRECTION OF GROUNDWATER FLOW
- 80 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- SW-1 SURFACE WATER MONITORING STATION AND NUMBER

<h1>ATKINS</h1>	<p>BEST DIVERSIFIED INC. LANDFILL KISSIMMEE, OSCEOLA COUNTY, FLORIDA</p>	<p>GROUNDWATER ELEVATION CONTOUR MAP NOVEMBER 2011</p>	<p>FIGURE 4</p>
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K:\BRAD_BAYNE\Century_City_Landfill\Summary_Report\drawings\FIGURE 5.dwg Aug 19, 2013 12:06pm Plotted By: 9327



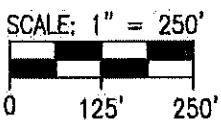
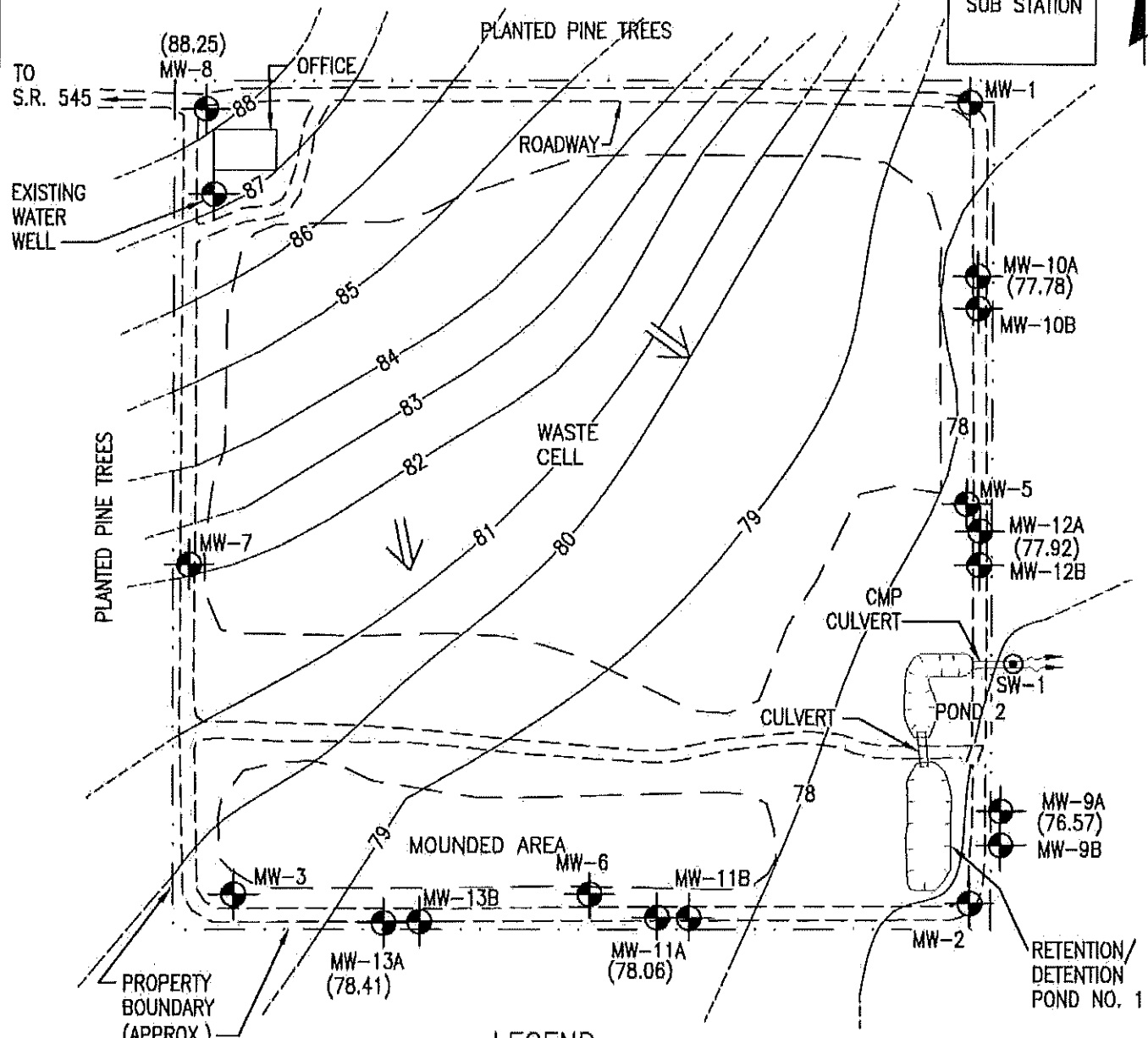
LEGEND

- MW-6 EXISTING MONITORING WELL AND NUMBER WITH GROUNDWATER ELEVATION IN FT/NGVD IN PARENTHESES
- INFERRED DIRECTION OF GROUNDWATER FLOW
- 80 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- SW-1 SURFACE WATER MONITORING STATION AND NUMBER

FT-NGVD = FEET ABOVE NATIONAL GEODETIC VERTICAL DATUM

<p>ATKINS</p>	<p>BEST DIVERSIFIED INC. LANDFILL KISSIMMEE, OSCEOLA COUNTY, FLORIDA</p>	<p>GROUNDWATER ELEVATION CONTOUR MAP MAY 2012</p>	<p>FIGURE 5</p>
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K:\BRAD_BAYNE\Century City Landfill\Summary Report\Drawings\FIGURE 6.dwg Aug19,2013 -- 12:07pm Plotted By: 9327



LEGEND

- EXISTING MONITORING WELL AND NUMBER WITH GROUNDWATER ELEVATION IN FT/NGVD IN PARENTHESES
- INFERRED DIRECTION OF GROUNDWATER FLOW
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- SURFACE WATER MONITORING STATION AND NUMBER

FT-NGVD = FEET ABOVE NATIONAL GEODETTIC VERTICAL DATUM

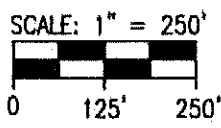
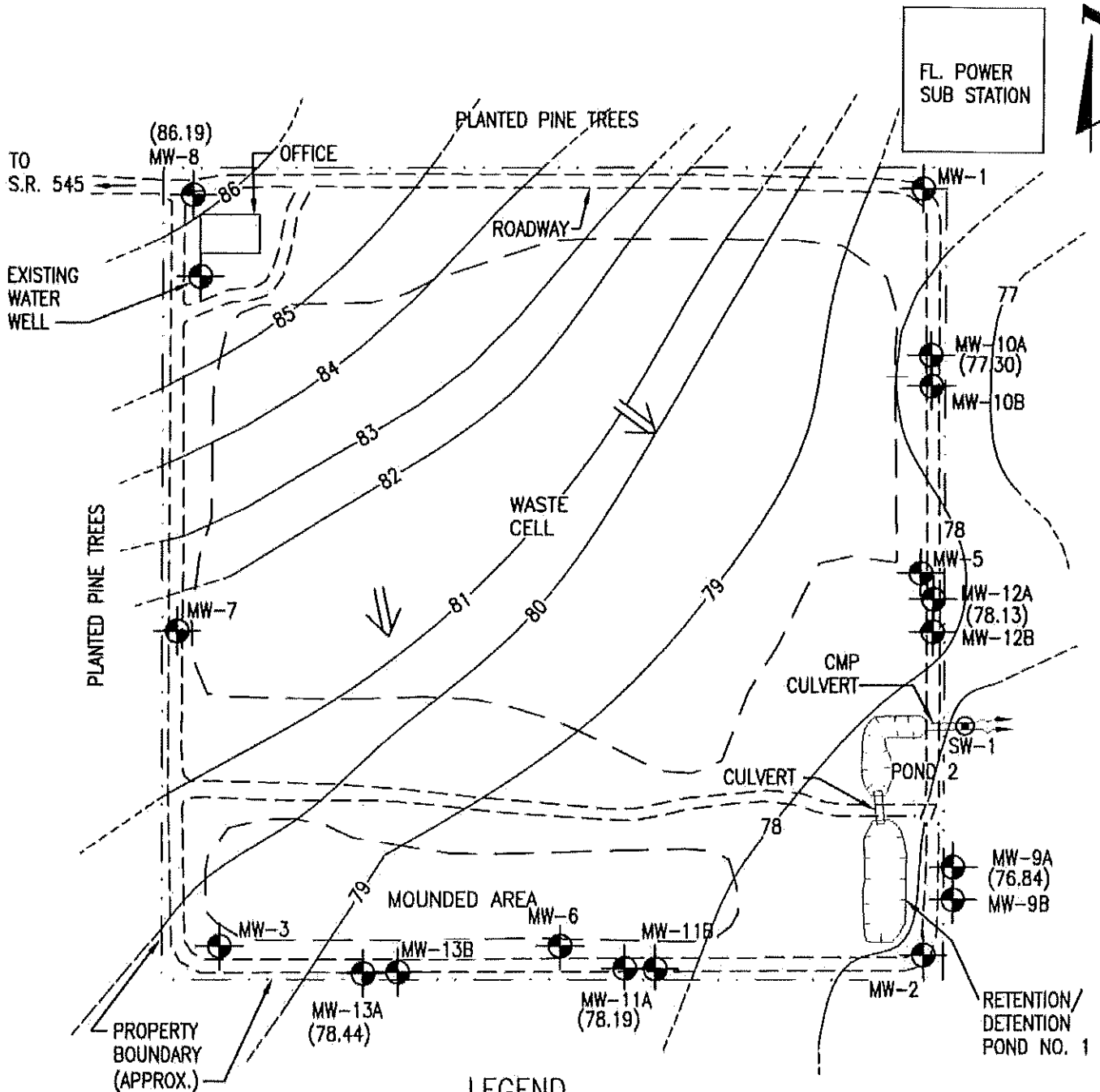
ATKINS

**BEST DIVERSIFIED INC. LANDFILL
KISSIMMEE, OSCEOLA COUNTY,
FLORIDA**

**GROUNDWATER ELEVATION
CONTOUR MAP
NOVEMBER 2012**

FIGURE 6

K:\BRAD_BAYNE\Century City Landfill\Summary Report\Drawings\FIGURE 7.dwg Aug 19, 2013 12:08pm Plotted By: 9327



FT-NGVD = FEET ABOVE NATIONAL GEODETIC VERTICAL DATUM

LEGEND

- MW-6 EXISTING MONITORING WELL AND NUMBER WITH GROUNDWATER ELEVATION IN FT/NGVD IN PARENTHESES
- INFERRED DIRECTION OF GROUNDWATER FLOW
- 80 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- SW-1 SURFACE WATER MONITORING STATION AND NUMBER

ATKINS

**BEST DIVERSIFIED INC. LANDFILL
KISSIMMEE, OSCEOLA COUNTY,
FLORIDA**

**GROUNDWATER ELEVATION
CONTOUR MAP
JUNE 2013**

FIGURE 7

Department of Public Safety
Office of Fire Marshal
Underground Storage Tank Section
320 N. Beaumont St, Kissimmee, FL 3474

Steve Cottrell
C.D. Dep
Ref: P & D L landfill

Dear Steve:

This is in reference to the P & D landfill that I talked to you about. I can't give you the date that the landfill was closed but it was some time in the summer of 1997.

I have made many phone calls to the number listed and even looked in the book for a new listing but to no avail. I visited the site on 1/6/00 to see if I could get to the tank but the gate was locked. I sent a certified letter on 1/11/00 and it came back unable to deliver.

The last date we were able to inspect was 2/4/97 and it is the only priority that I didn't get done. Im turning it over to you and your department for enforcement.

Thanks



William L. Bradshaw
Tank Inspector



State of Florida
 Department of Environmental Regulation
**Pollutant Storage Tank System
 Inspection Report Form**

E
2/4/97

Facility: ID. #: 499700134 County: OSCEOLA
 Facility Name: P & D LANDFILL
 Facility Location: 945 OLD LAKE WILSON RD KISSIMMEE, FL 34746
 Facility Contact: CARY HUFF Phone: (407) 397-0199
 Owner: P & D LANDFILL INC Phone: (407) 397-0199
 Owner Address: 945 OLD LAKE WILSON RD KISSIMMEE, FL 34746
 Owner Contact: CARY HUFF Owner Change Date: _____
 Latitude: 28 : 18 : 01 Longitude: 81 : 35 : 20 Fac. Type: C

Tank #	Size	Contents	Date Installed	Under or Above	Tank Type	Integral Piping	Monitoring System	Tank Status
1	1000	D	08/94	A	CK	A	Z	U

Comments: * All required records must be maintained as per Ch 62-762.710 and monthly visual inspections must be initiated and documented as per Ch 62-762.600(2). Third party liability insurance (financial responsibility) must be obtained as per Ch 62-762.450 (2), (7), (8), + (9)

Inspection Type: (Choose One) <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Discharge (DRF) <input type="checkbox"/> Installation <input type="checkbox"/> Closure <input type="checkbox"/> Abandoned <input type="checkbox"/> Reinspection	Site Information: (All that apply) <input type="checkbox"/> Near Public Wells <input type="checkbox"/> Repaired <input type="checkbox"/> Contaminated <input type="checkbox"/> Upgraded <input type="checkbox"/> Complaint <input type="checkbox"/> Both UST & AST <input type="checkbox"/> Acid Tanks <input type="checkbox"/> Hazardous Materials
--	--

DER District or Local Program OSCEOLA COUNTY

RICHARD S. KALE LUIS A. JIMENEZ
 Inspector Name (Print): Contact Name (Print):
Richard S. Kale 1/31/97 Luis A. Jimenez 1/31/97
 Inspector's Signature & Date Contact's Signature & Date



State of Florida
 Department of Environmental Regulation
**Pollutant Storage Tank System
 Inspection Report Form**

E
2/4/97

Facility ID #: PENDING 499700134 County: OSCEOLA
 Facility Name: P & D LANDELL
 Facility Location: 945 OLD LAKE WILSON RD KISSIMMEE, FL 34746
 Facility Contact: CARY HUFF Phone: (407) 397-0199
 Owner: P & D LANDELL INC Phone: (407) 397-0199
 Owner Address: 945 OLD LAKE WILSON RD KISSIMMEE, FL 34746
 Owner Contact: CARY HUFF Owner Change Date: _____
 Latitude: 28 : 18 : 01 Longitude: 81 : 35 : 20 Fac. Type: C

Tank #	Size	Contents	Date Installed	Under or Above	Tank Type	Integral Piping	Monitoring System	Tank Status
1	1000	D	08/94	A	CK	A	Z	U

Comments: Tank was installed August 1994 with connection to an adjacent 500 gal steel tank. Tank Registration was not submitted and the fuel company at the time, HART OIL CO., did not advise them of the requirements.

Inspection Type: (Choose One) <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Installation <input type="checkbox"/> Abandoned <input type="checkbox"/> Discharge (DRF) <input type="checkbox"/> Closure <input type="checkbox"/> Reinspection	Site Information: (All that apply) <input type="checkbox"/> Near Public Wells <input type="checkbox"/> Contaminated <input type="checkbox"/> Complaint <input type="checkbox"/> Acid Tanks <input type="checkbox"/> Repaired <input type="checkbox"/> Upgraded <input type="checkbox"/> Both UST & AST <input type="checkbox"/> Hazardous Materials
---	--

DER District or Local Program _____
RICHARD S. KALE
 Inspector Name (Print):
Richard S. Kale 1/23/97
 Inspector's Signature & Date

OSCEOLA COUNTY
LUIS A. JIMENEZ
 Contact Name (Print):
Luis A. Jimenez 1/23/97
 Contact's Signature & Date

124 D Kennedy



1-31-97



1-31-97



IDEP # 4/00134 INSPN TYPE: routine DATE: 1/31/97
 FAC. NAME: P+D Landfill ARRIVE: 1335
 ADDRESS: 945 Old Lake Wilson Rd LEAVE: 1400
 CONTACT: Lois Jernicez PHONE: 397-0199
 PLACARD: Pending CFR ON SITE?
 TANKS: 1-1M AST } Manifoldd
 1-500 AST }

RECORD KEEPING:
 TIGHTNESS TEST: LINE TEST:
 INVENTORY CONTROL: N/A
 WATER CHECKS:
 MONITORING WELLS: N/A
 NR: SIZE: PERFORMED BY:

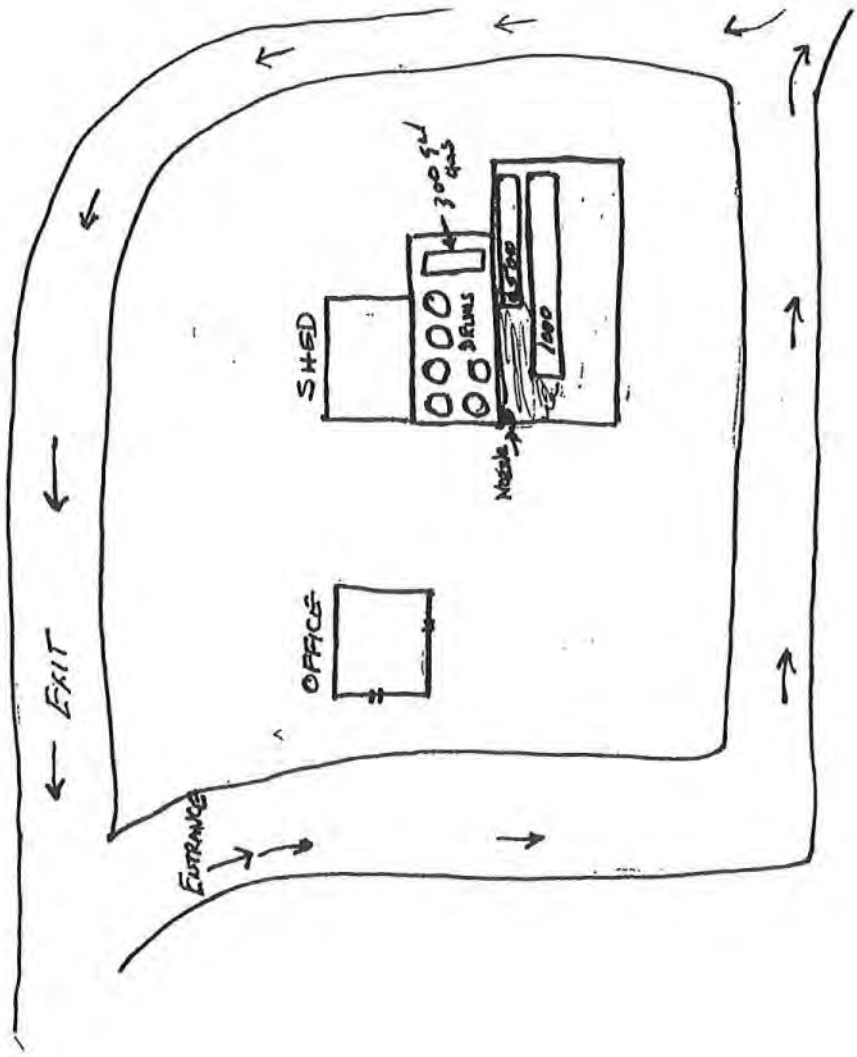
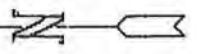
MAW LOCK # OR LOG	1" ABOVE GRADE	WATER DEPTH	VAPOR READINGS	PROD. OR ODOR	FAC. RECORDS SHOW
NO.	SIZE	PERFORMED BY:	TOW	APRN SHEEN	

DISPENSER TYPE: Torkilis LINDER TYPE: Concrete Containment
 IMPACT VALVE: HOSES: ✓
 OTHER:
 FILL PORTS:
 FIRE EXTINGUISHER: ✓
 EMERGENCY SHUT OFF: ✓ VENT PIPES: ✓
 STIP SUMPS:
 LEAK DETECTOR TYPE: DATE TESTED:

TANK GAUGING SYSTEM:
 CATHODIC PROTECTION:
 COMMENTS: Containment area floor contains diesel fuel - drippage - from piping.

LAT: 28-18-01 LONG: 81-35-20

SITE SKETCH



FTE DCIC EMAIL
BRIDGE INFO REQUEST

Chris Garth

From: Krebill, Eric <Eric.Krebill@dot.state.fl.us>
Sent: Friday, August 5, 2022 8:05 AM
To: Chris Garth
Subject: RE: 446581-1 PD&E Study_ Poinciana Parkway Extension Connector _ Info Request _ ACM/MBC reports

Hi Chris,

I didn't find ACM reports for the bridges listed below in our collection. In the CSER mention in the field review interviews section that you requested ACM reports for the project structures to be renovated/demolished by project construction activities and since existing reports are not available FTE should consider performing ACM/MBC surveys during the final design phase.

Thanks

Eric Krebill, PG
District Contamination Impact Coordinator
Florida's Turnpike Enterprise, MP 263, Building 5315, Ocoee, FL 34761
407.264.3408 (Desk); 407.758.9651 (Cell)
Eric.Krebill@dot.state.fl.us
HNTB/Terracon Consultants, Inc.

From: Chris Garth <cgarth@tierraeng.com>
Sent: Thursday, August 4, 2022 2:46 PM
To: Krebill, Eric <Eric.Krebill@dot.state.fl.us>
Subject: RE: 446581-1 PD&E Study_ Poinciana Parkway Extension Connector _ Info Request _ ACM/MBC reports

Eric,

I am working on the Level I CSER for this project (adjoining south of my other recent request) & request the ACM/MBC reports for the following structures:

920607
925500
920601
920602
920603
920604
924179

920097
920202
920203
925501
92Q038

Please call or email if you have questions.

Respectfully,
Chris Garth, LEP

TIERRA, INC.

T 813.989.1354 | F 813.989.1355 | C 813.766.0269

geotechnical environmental materials engineering

From: Krebill, Eric <Eric.Krebill@dot.state.fl.us>

Sent: Tuesday, August 2, 2022 11:55 AM

To: Stein, Philip <Philip.Stein@dot.state.fl.us>; Chris Garth <cgarth@tierraeng.com>

Subject: RE: 446164-1 PD&E Study to Widen Western Beltway _ Info Request _ ACM/MBC reports

Chris,

I didn't find ACM reports for the structures listed below in our collection. In the CSER mention in the field review interviews section that you requested ACM reports for the project structures to be renovated/demolished by project construction activities and since existing reports are not available FTE should consider performing ACM/MBC surveys during the final design phase. ACM/MBC surveys are handled as additional considerations rather than Level II impact to construction assessment thus the structures don't warrant risk ranking.

Thanks

Eric Krebill, PG

District Contamination Impact Coordinator

Florida's Turnpike Enterprise, MP 263, Building 5315, Ocoee, FL 34761

407.264.3408 (Desk); 407.758.9651 (Cell)

Eric.Krebill@dot.state.fl.us

HNTB/Terracon Consultants, Inc.

From: Stein, Philip <Philip.Stein@dot.state.fl.us>

Sent: Thursday, July 28, 2022 10:15 AM

To: Chris Garth <cgarth@tierraeng.com>; Krebill, Eric <Eric.Krebill@dot.state.fl.us>

Subject: RE: 446164-1 PD&E Study to Widen Western Beltway _ Info Request _ ACM/MBC reports

Hi Chris,

I looked through the files (I am aware of) and don't see reports for any of these. It is possible Eric has another location with saved files. Please forgive the delay but it would be best if we confirm with Eric on August 2 that there is in fact no reports available.

Sorry for the delay.

@Krebill, Eric Please let me know if there is another location beyond J:\HAZMAT-CONTAMINATION\REPORTS-ASBESTOS,LBP,IAQ\ASBESTOS, MBC where these files may be located.

Philip Stein

Turnpike Environmental Administrator

Office: 407-264-3301 | Cell: 321-229-3846

Email: Philip.stein@dot.state.fl.us

Turnpike Headquarters

MP 263 Bldg. 5315

P.O. Box 613069

Ocoee, FL 34761

From: Chris Garth <cgarth@tierraeng.com>
Sent: Thursday, July 28, 2022 9:43 AM
To: Stein, Philip <Philip.Stein@dot.state.fl.us>
Subject: FW: 446164-1 PD&E Study to Widen Western Beltway _ Info Request _ ACM/MBC reports

EXTERNAL SENDER: Use caution with links and attachments.

Hi Philip,

Since Eric Krebill is out until Tuesday, I was hoping you might be able to help with my request below. Please call or email if you have questions.

Respectfully,
Chris Garth, LEP

TIERRA, INC.

T 813.989.1354 | F 813.989.1355 | C 813.766.0269
geotechnical environmental materials engineering

From: Chris Garth
Sent: Wednesday, July 27, 2022 4:09 PM
To: Eric.Krebill@dot.state.fl.us
Subject: 446164-1 PD&E Study to Widen Western Beltway _ Info Request _ ACM/MBC reports

Eric,

Hope all is well. I am working on the ERC comments (DCN 13491) for this project & request the ACM/MBC reports for the following structures:

18 Bridges – 920607, 920603, 920604, 920608, 924178, 920605, 920606, 920609, 920610, 750623, 750616, 750617, 750618, 750619, 750620, 750637, 750621, and 750622

6 Toll Booths – 3250/Site 20, 3251/Site 21, Station 357+00 (toll plaza number not noted)/Site 22, 5602/Site 23, 10552/Site 24, and 10576/Site 25. The site numbers were illustrated along SR 429 in our CSER.

2 Toll Gantries – 5613/Site 26; and the toll gantry located at Station 364+00/Site 27

Please call or email if you have questions.

Respectfully,
Chris Garth, LEP
Senior Scientist

TIERRA, INC.

7351 Temple Terrace Highway | Tampa, Florida 33637
T 813.989.1354 | F 813.989.1355 | C 813.766.0269
cgarth@tierraeng.com | www.tierraeng.com
geotechnical environmental materials engineering

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