

**Environmental Assessment for the Transfer of Federal Grant
Encumbrance from LWCF Grant in Broward County to Facilitate the
Construction of the Miramar Parkway / Pembroke Road Extension**

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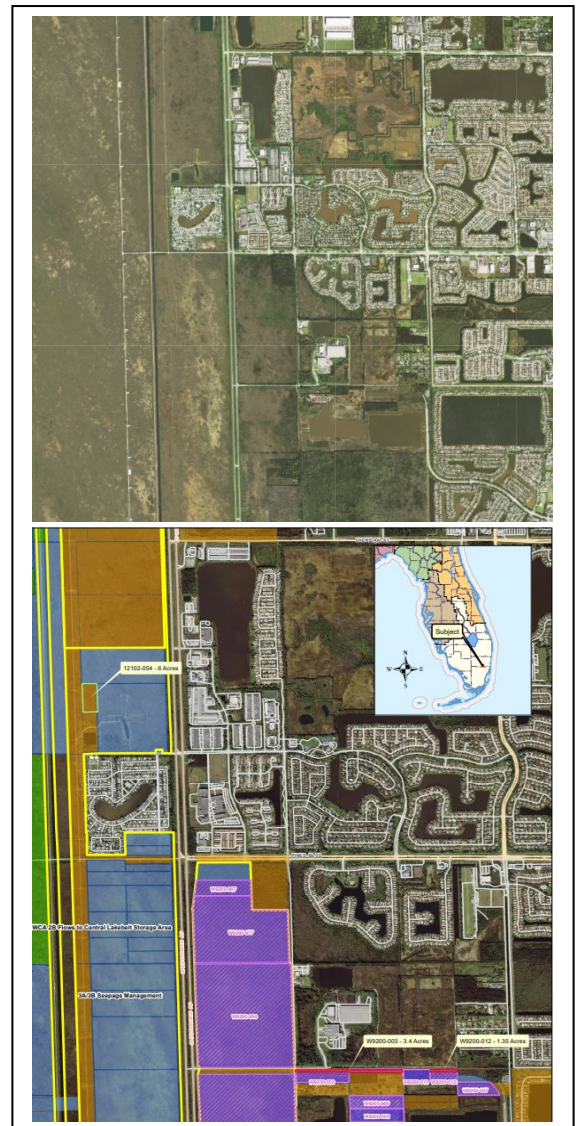
CHAPTER 1. Purpose and Need

1.1 Background

The City of Miramar (City) is proposing to extend Miramar Parkway from its current western endpoint near SW 196th Avenue to US HWY 27. This road project will include a new estimated two mile stretch of road. The City is requesting the South Florida Water Management District (“District”) transfer ownership to the City of two strips of land containing a total of approximately 4.75 acres from two tracts located adjacent to the undeveloped segment of the Miramar Parkway within Broward County for the extension of the Parkway. The two tracts are portions of larger 5-acre tracts. The City has stated that the road extension is necessary for community safety specifically to enhance emergency evacuation routes during storm events and to improve the interconnectivity of community road systems.

The two requested tracts were acquired using Department of Interior (“DOI”) funding at a rate of 50% of the purchase price. These tracts are located along the current road or a road right-of-way and are located outside of a Comprehensive Everglades Restoration Plan (CERP) project area boundary. During the preliminary design process these two tracts were deemed unusable for a planned CERP project. The two properties are located south of a waste recycling facility and west of a residential community. A former Department of Defense Site (FT Lauderdale Bomb target site 7) is located approximately 0.5 mile south of the subject properties.

As part of this proposed land transaction with the City, the District is proposing to replace the two parcels with a 6-acre parcel, which is located approximately 1.92 miles northwest, on the west side of Highway 27 within the Broward County Water Preserve Area (WPA) planned 3A/3B Seepage Management Area. The Seepage Management Area is a component of the Broward County Water Preserve Area (WPA). The purpose of the WPA is to reduce water loss/seepage through the 3A/3B Seepage Management Area from Water Conservation Area (WCA) 3, located adjoining to the west, and to capture water within the C-11 and C-9 basins for additional ecological and hydrological benefits. The WCA stores water for beneficial uses,



including to flow to Everglades National Park, and provides Everglades marsh habitat that is important for threatened and endangered species. The quantity of water is a crucial component to the Everglades ecosystem and restoration, so it is important to reduce the loss of water that would otherwise flow east based on the lower groundwater levels outside the WCA.

The subject DOI encumbered properties proposed to be transferred for the road project were acquired originally for use as part of the Broward County WPA / C-9 impoundment. The previous impoundment design included a narrow 400-acre rectangle section that extended north of the planned Miramar Parkway addition. This northern rectangular section was excluded from the revised C-9 project boundary based on constructability concerns. Specifically, the width of the property was inadequate to effectively construct the reservoir. Additionally, an environmental assessment conducted within the narrow reservoir section documented elevated surficial soil selenium concentrations which would pose an unacceptable ecological risk to the FWS trustee species. The current proposed C-9 impoundment northern boundary is located approximately one-half mile south of the proposed new alignment for the Miramar Parkway.

Considering the C-9 water impoundment project was redesigned, the Broward County Water Preserve Area Project Delivery Team (PDT) which represents the U.S. Army Corps of Engineers, Jacksonville District, along with the South Florida Water Management District, determined that the relocation of the two tracts proposed for the exchange do not adversely affect the proposed restoration projects. See Broward County Water Preserve Area Facts & Information in **Appendix E**.

1.2 Real Estate Relocation Activities

The District would transfer U.S. Department of the Interior (DOI) grant funding from two properties along the proposed Miramar Parkway road extension to a property within the 3A/3B Seepage Management Project area. This new property location would provide increased ecological benefits for the DOI ownership and assist with the Broward County WPA restoration project implementation.

1.3 Review Project Components

1.3.1 Miramar Parkway

The land transfer is needed for the proposed Miramar Parkway western road extension project. The Miramar Parkway western extension project footprint alignment is consistent with the city's proposed road plan to improve the western connection for the City to US Hwy 27 and improve emergency excavation routes. The two DOI properties are not located within a designated CERP project boundary area. See Broward County Traffic ways plan attached in **Appendix F**.

1.3.2 Component Grant Funding Disposition

A review for specific funding details related to the removal of grant funding for the two properties within the new road right-of-way and transfer to one property of equal value is located on the western boundary of the WPA (see **Appendix D** for property location maps).

1.3.3 Miramar Parkway / Pembroke Road Extension

On November 19, 2021, the South Florida Water Management District provided a letter to the U.S. Department of the Interior which requests the removal of specific grant-funded restrictions on properties owned by SFWMD that are located within the Miramar Parkway extension corridor in exchange for the placement of specific grant-funded restrictions on replacement property owned by SFWMD. A copy of the SFWMD correspondence letter is attached in **Appendix G**.

1.3.4 Transfer Properties

The District plans to grant approximately 4.75 acres of land from two tracts in Broward County to the City of Miramar for the extension of a major neighborhood arterial roadway known as Miramar Parkway. The tracts were acquired using Department of Interior (“DOI”) funding at a rate of 50% of the purchase price. These tracts are located outside of the current CERP project boundary because of a change in project plans after assessment. The below table provides a summary of relevant information for the DOI encumbered properties:

Existing DOI Properties

Name	Tract 1	Tract 2
County	Broward	Broward
Tract ID	W9200-003	W9200-012
Total Acres	3.4	1.350
Total Land Cost	\$102,000	\$36,450
Acquisition Date	9/24/1999	3/31/2000
Federal Funding	\$51,000	\$18,225
Funding Source	LWCF	LWCF
Appraiser value	\$150,000	\$60,000



1.3.5 Replacement Property

A 6-acre undeveloped replacement parcel property has been identified within the proposed 3A/3B Seepage Management Area. The replacement property is currently owned by the City of Miramar. As indicated by the tables below the property would be deeded to the District as a replacement for the land to be used for the roadway. The following table provides a summary of information for the proposed grant funding replacement property.

Proposed Relocation Property

Name	Tract
County	Broward
Tract ID	12102-054
Total Acres	6
Total Land Cost	Donation
Acquisition Date	TBD
Funding Source	N/A
Appraiser value	\$60,000



1.4 Road Corridor Properties, Replacement Properties

The road corridor properties include 4.75 acres which is located outside of the current Broward County WPA CERP project boundary. The properties consist of a mix of jurisdictional and degraded wetlands. Portions of the property include an unpaved road. Sections of the property have been degraded by invasive species including but not limited to melaleuca and pepper trees, and by off-road vehicles. See site maps in **Appendix D**.

The Land and Water Conservation Fund Grant Agreement - 1 (LWCF-1) recognized that the properties acquired might not be used for an Everglades restoration project. In such circumstances, LWCF-1 allowed that the District may:

1. Retain and use the property for other Everglades restoration purposes.
2. Acquire replacement property for Everglades restoration. Such replacement property shall be of at least equal fair market value.

Through this proposed exchange, the District would utilize the second option. Therefore, the District would provide a replacement property to DOI for the fair market value of their share of the property within the proposed Miramar Parkway corridor. The District proposes that DOI's share of the value would be applied to the replacement property, which is located within the planned 3A/3B Seepage Management Area restoration project boundary.

1.5 Scope of Analysis

This supplemental environmental assessment evaluates the removal of Federal grant funding for land proposed to be used for the Miramar Parkway western extension, which was purchased pursuant to federal grant agreements LWCF-1. The extent of the CERP restoration project that those parcels were initially planned to be a part of changed based on additional assessment and those properties are no longer within the project area. As such, pursuant to the federal grant agreements, the District proposes to provide replacement properties located within the WPA 3A/3B Seepage Management Area which is within the CERP project boundary. The specific acreage of property tracts and costs associated with the transfers are summarized in the above tables. The DOI encumbered tracts and the proposed land swap property locations are identified in **Appendix D**.

CHAPTER 2. Alternatives

2.1 Revised Alternative A: No Action - Current Land Ownership

Under Alternative A, there would be no land replacement. The grant funding would continue to encumber with the proposed road corridor properties owned by the District, which would eliminate the ability of the proposed road extension project to be implemented.

2.2 Alternative B: New Proposed Action - Removal of Federal Interest in the proposed Road Corridor, for Replacement Properties

The new proposed action would equalize the values of the exchange of properties for the removal of the encumbrance and federal nexus from the road corridor properties. In exchange, SFWMD would transfer the federal interest encumbrance to the replacement property located in the WPA 3A/3B Seepage Management Area.

2.3 Alternative C: New Proposed Action - Removal of Federal Interest in Road Corridor Properties

The new proposed action would require, if available, the acquisition of properties within the current footprint of the planned WPA restoration projects. The estimated acquisition cost is \$60,000. Once acquired, the District would grant the property to DOI and remove the encumbrance and federal nexus from the proposed road corridor properties. This alternative is problematic due to property availability of land for acquisition, and budgetary and time constraints.

CHAPTER 3. Affected Environment

The following sections provide a review of the WPA project.

3.1 Broward County Water Preserve Area

3.1.1 Location

The WPA project is part of the Comprehensive Everglades Restoration Plan (CERP). When completed, the restoration project will reduce water loss from the Water Conservation Area (WCA) / Everglades. The project is designed to perform two primary functions which includes reduce the seepage loss from WCA through the 3A/3B Seepage Management Area and capture, store and distribute surface water through the C-9 and C-11 Impoundments.

3.2 Property Use

Substantial portions of the WPA property consist of undeveloped lands with portions of the property improved with rock mining, residential and industrial uses. Site observation of the subject DOI funded tracts indicated these properties have been degraded based on previous site improvements, non-native and invasive vegetation encouragement, onsite dumping and trespassing. Additionally, the roads that transverse though the area allow for recreational off-road sport vehicles to access the property, which have impacted some areas onsite, resulting in the erosion and further degradation of vegetation. The quality of onsite wetlands in the vicinity of the DOI funded tracts are not uniform and can vary significantly in a minimal distance of less than 100 feet with some smaller remnant/fragments of high-quality wetlands. Surrounding land uses include, wetlands mitigation lands to the north and south residential properties, mining operations, a waste recycling facility and some limited commercial properties to the north and northeast. The 3B water conservation area and Everglades National Park are located to the west and southwest.



3.3 Topography

A review of the United States Geological Survey (USGS) 7.5-minute quadrangle Lauderdale / Miami map quadrangle map indicates that the subject properties are relatively flat and have ground surface elevations that range from +1 to +10 feet above mean sea level (msl). It can be inferred that the pre-construction or pre-development regional surface water and shallow groundwater flow directions would generally follow the ground surface elevations. Site-specific-based surface water flow would be influenced by topography at each land tract. A review of the historic and current aerals was conducted to document changes in land use. The 1970s aerial photos document the presence of mining operations and the development of residential property. A review of flood insurance maps for the area of the properties dated 2021 illustrated that the site and surrounding areas are located within flood zone AH. The designated flood zone is described as areas with shallow ponding water located within the 100-year flood zone; however, the flood elevations for individual tract elevations would vary. A copy of the flood map is included in **Appendix D**.

3.4 Hydrology

The properties are situated over a shallow and deep aquifer. The shallow Biscayne aquifer is the primary source of fresh water for consumption in both Broward and Miami-Dade County. The Floridan aquifer is a much deeper aquifer that would require expensive treatment to remove minerals/chlorides prior to use as a potable water use. Soil hydrological survey maps for the DOI encumbered tracts are displayed in **Appendix D**.

3.4.1 Biscayne Aquifer

The Biscayne aquifer is an unconfined aquifer and is the major source of all potable groundwater in Broward County. The aquifer is comprised primarily of limestone, sandstone, and sand of marine origin that ranges in age from (oldest to youngest) late Miocene through Pleistocene. The thickness of the consolidated limestone sections and the permeability of the aquifer as a unit generally decreases to the north. The limestone beds in the Biscayne aquifer can yield large amounts of water. The Broward County wellfield protection map is attached in **Appendix D**.

3.4.2 Floridan Aquifer

The Floridan aquifer is artesian in nature and consists of a thick section of carbonate and evaporite rocks underlying all of Florida and parts of Georgia and Alabama. In southeastern Florida, the aquifer underlies a thick section of impermeable marl and clay at depths below 900 feet and extends to a depth of more than 3,000 feet. It is composed primarily of a system of limestones of varying permeability. The system dips to the east and south and is thought to intersect the ocean bottom several miles offshore along the continental slope. The aquifer is unconfined except in recharge areas where the overlying confining materials are very thin or absent. The water is highly mineralized, containing more than 1,500 milligrams per liter (mg/L) of chloride and 3,500 mg/L of dissolved solids. It can also contain a high content of sulfur and can be hard and corrosive. These characteristics greatly limit the use of the water from this aquifer for most purposes.

3.5 Contaminants

A regional environmental assessment of the initially proposed C-9 / C-11 project areas was conducted in 2005 by BEM Systems Inc. This report was prepared to evaluate the current environmental status of the 411 individual land tracts that comprise the 3A/3B Seepage Management Areas and C-9/C-11 Impoundment. The reports provide an overview of the regional area. A copy of the assessment report is included in **Appendix H**. Additionally, Environmental Consulting and Technology, Inc. conducted an Ecological Risk Assessment of the project area focusing on selenium. A copy of the ERA is included in **Appendix H**.

During December 2021, the District Environment Science Unit conducted a Screening Level Phase I Environmental Assessment. The purpose of the EA was to identify potential environmental concerns. Of specific concern are those issues identified onsite or offsite that could lead to the degradation of soils, sediments and/or groundwater quality. Additionally, the EA attempted to identify contaminated media that may have been stored, stockpiled, discarded, leaked/discharged or applied on the site associated with current and/or historical site use. Based on the current and historical use of the property, a Phase II EA was not recommended. As part of the EA, a site inspection and review of available aerial photographs was conducted. A review of the Florida Department of Environmental Protection's (FDEP) site regulatory status concerning waste management, soil and/or water contaminant impacts was conducted using historical aerial photographs and the FDEP Map Direct website. A review of the FDEP site information indicates that no State of Florida recorded environmental impacts were reported with the subject sites or the replacement property. Additionally, no National Priorities List (NPL) sites were identified within the 1.0-mile search radius.

A review of the U.S. Army Corps of Engineers Formerly Used Defense Site (FUDS) Geographical Information System identified several former military sites within a 5-mile radius of the subject tract and replacement property. The Fort Lauderdale Bomb Target 7 (Bombing Range) is located an estimated 0.5 mile south of the subject property. During the early 1940s, a permit was applied for to establish the bombing target. The proposed use of the Bombing Target was for both the Miami and Fort Lauderdale Naval Air Stations (NASs) for practice bombing. After the closure of NAS Miami and Fort Lauderdale in 1947, the property was turned over to private ownership. The property was formerly owned by the Miramar Rock Company and leased for cattle grazing but was later transferred to the South Florida Water Management District (SFWMD). A portion of the land has been developed as a residential subdivision. As part of the previous development, a portion of the property was extensively excavated. Based on previous assessment, no explosives were detected from the Bomb Target area. Soil samples collected within the target area detected elevated zinc concentration above the background concentrations. A Human Health Risk Assessment (HHRA) and a Screening Level Ecological Risk Assessment (SLERA) was conducted to assess zinc concentrations. The results of the HHRA and SLERA indicate that there are no human or ecological health risks associated with the zinc.

Based on a review of the cumulative available information, there is no evidence of environmental contamination impairment associated with the subject tracts or the replacement property. The Screening Level Phase I Environmental Assessment, December 2021 is attached in **Appendix H**.

3.6 Soil Survey

Soils comprising the WPA were reviewed based on the United States Department of Agriculture's Natural Resources Conservation Service's survey for Broward County, Florida. Soils primarily fall into the classification of Dania muck, Tamiami muck, and Lauderdale muck. Dania muck is a shallow, nearly level, and very poorly drained soil that is encountered in poorly defined drainageways and is located adjacent to deeper organic soils within areas of sawgrass marshes. Typically, the surface layer consists of black muck that is about 15 inches thick. Soft, porous limestone bedrock is usually encountered below the layer of muck. Lauderdale muck soil is a moderately deep, nearly level, very poorly drained soil that is encountered in narrow drainageways and on broad open areas of sawgrass marshes. Tamiami muck is depressional and is a moderately deep to deep, nearly level, very poorly drained soil that is encountered in freshwater swamps and marshes. This soil type's surface layer consists of black muck that is about 4 inches thick. Hard, porous limestone bedrock is usually encountered at a depth of approximately 30 inches.

Under natural conditions, the site will pond water during the wet season, from 9 to 12 months throughout the year. The water table is typically within 10 inches of the land surface during dry periods and inundated during the rainy season. Permeability through the limestone and muck is relatively rapid. The highly organic muck soil material will subside during dry or drought periods and will experience further subsidence as a result of compaction and oxidation.

Based on site observations the soils at the site typically consist of a layer of muck that is approximately 6 to 12 inches thick. Limestone can be observed to outcrop at those sections of the property where the vegetation is cleared.

3.7 Biological Environment

The USGS Topo Quadrangle Map, 7.5 Minute Series and the National Map Viewer indicate that the project area is not located within an officially designated wilderness area or preserve. The WPA project area consists of fallow farmlands and jurisdictional wetlands designated as freshwater emergent wetlands with isolated freshwater forested/shrub wetlands. Site observation indicates that most of the site appears to consist of remnant Everglades wet prairie wetlands that have been invaded by invasive/exotic vegetation. The wetlands onsite vary significantly based on site-specific conditions for the subject tracts. The replacement property appears to be in and overall better conditions than the subject tracts. Previous agricultural use and off-road recreational vehicles have degraded the functionality of wetlands within the study area of the subject tracks. The lands to the north and further south are included within a regulatory mitigation lands conservation area. The replacement property has less accessibility and therefore has a reduced impact from off road vehicles. The WPA project area includes undisturbed natural areas and lands that have been cleared or partially cleared and improved for agriculture, mining, and roads. The site's ecosystems consist primarily of wetlands, hardwood forest, melaleuca wetland forest, wet prairie, freshwater marsh and disturbed lands. the property is a mix of invasive species, including upland and wetland melaleuca and Brazilian pepper; however, the WPA also includes a good presence of native vegetation, such as dahoon holly, magnolia, bay wax myrtle, button bush and other native and upland and wetland vegetation. The National Wetlands Inventory (NWI) defines the site as primarily freshwater emergent wetlands with some isolated and freshwater ponds.

3.7.1 Wildlife

The site is located east and outside of the Florida Panther primary, secondary zones or disperse area. Anticipated wildlife usage of wetlands of the subject property and the replacement property would include includes species such as bobcat, cotton rat, white-tailed deer, raccoon, marsh rabbit, red-winged blackbird, killdeer, red-tailed hawk, warblers, cricket frog, coyote, cottonmouth snake, southern black racer, ring-necked snake, yellow rat snake, African rock and Burmese python, Florida king snake, eastern diamond-back rattler, and southern chorus frog. The following listed species are also expected to utilize wetlands within this area, such as Marian's marsh wren (Species of Special Concern - SSC), Worthington's marsh wren (SSC), tricolored heron (SSC), snowy egret (SSC), white ibis (SSC), little blue heron (T), wood stork (T), and the Florida bonneted bat (E).

The replacement property would provide enhanced ecologic habitat based the unimpeded proximity to WCA 3B. Conversely, the subject site would have impacts of habitat fragmentation associated with being separated by US Hwy 27 from the WCA and the development in the area around those properties.

3.8 Water Quality

The subject site is relatively level with minimal constructed water impoundment canals or ditches within the interior of the property. A former mining pit is located south of the

boundary on the property. The WCA is located to the west of the subject tract past Highway 27. Surface water onsite is controlled by seepage and sheet flow.

3.9 Noise

The primary source of noise within the WPA is US Highway 27, there is an industrial waste recycling facility located near the subject site. No industrial other facilities were identified near the site that would pose a concern for noise levels. The standard measurement unit of noise is the decibel (dB), which represents the acoustical energy present and is an indication of the loudness or intensity of the noise. Noise levels are commonly measured in weighted decibels (dBA) using a Day/Night Noise Level (DNL) site exposure. In general, noise dissipates quickly with distance, and noise generated by traffic on roads north and west of the subject tract would generally not be perceptible on the eastern section of the WPA. The DOI subject property is located within close proximity to potential noise generating properties. However, neither the subject site or the replacement site pose unusual impacts associated with noise.

3.10 Socio-economic Environment

3.10.1 Demographics

The WPA project area is located within northwestern Miami-Dade County and western Broward County. The water conservation area is located to the west. The subject property is undeveloped lands. Broward County land use map designated the subject properties within the agricultural lands area. The properties to the east are developed with single family residential homes and light commercial. See land use map in **Appendix D**.

The proposed grant funding transfer would allow for the development/construction of the Miramar Parkway extension. This road extension would provide improved evacuation routes for resident to US HWY 27. The development of the road would provide a social benefit as it would improve the City emergency evacuation route and improve the City road connectivity.

3.10.2 Recreation Use

No recreational opportunities are currently available on the DOI lands based on the lack of improved site access for public use or development of infrastructure. Public recreational opportunities are available on the adjacent lands to the west, including the Everglades and Francis S. Taylor Wildlife Management Area, the Milton E. Thompson County Park to the North, and the Everglades National Park located to the south. The District will include enhanced recreational access as part of the Broward County WPA implementation. No restrictions or impacts are anticipated to public recreational use.

3.10.3 Cultural and Historic Resources

Janus Research Inc. conducted a cultural resources desktop analysis for the proposed Miramar Parkway Property Swap in Broward County, Florida. The purpose of this desktop

analysis was to provide cultural resources information to assist in the avoidance of resources listed in, determined eligible for, or considered eligible for listing in the National Register of Historic Places (National Register) according to the criteria set forth in 36 CFR Section 60.4 and develop zones of archaeological site potential.

An archaeological and historical literature and background search pertinent to the study area was conducted to determine the types, chronological placement, and spatial patterning of cultural resources within the study area. Background research methods included a search of the Florida Master Site File (FMSF) data, including unpublished Cultural Resource Management (CRM) reports, to identify cultural resources that are listed, eligible, or considered eligible for listing in the National Register, as well as any cultural resources with potential or confirmed human remains. Background research methods included a search of Broward County Property Appraiser records and other relevant historical mapping.

The results of the Florida Master Site List FMSF background search identified no previously recorded historic resources within the historic resources study area. No potential historic resources were identified during the property appraiser parcel data search or during the examination of historic aerials. The Janus Research Inc. Cultural Resource Desktop Analysis is included as **Appendix I**.

CHAPTER 4. Environmental Consequences

This chapter describes the foreseeable environmental consequences of providing the subject properties to the City in exchange for land within the proposed 3A/3B Seepage Management Area restoration project. The parcels that have been included in the land exchange between the DOI and the District are proposed to achieve equitable value in the exchange. When detailed information is available, a scientific and analytic comparison between alternatives and their anticipated consequences is presented, which is described as "impacts" or "effects." When detailed information is not available, those comparisons are based on the professional judgment and experience of District staff and concurrence from the USFWS.

4.1 Physical Consequences

The proposed plan is to remove grant funding from lands located in the vicinity of the proposed Miramar Parkway western extension and transfer land ownership to a property located at the western boundary of the WPA within the 3A/3B Seepage Management Area. This DOI land is in a developed area with both wetland mitigations areas, residential, mining operations and waste recycling operations on the surrounding properties. The transfer of the grant funding would allow the City to proceed with the planned road corridor for enhanced emergency evacuation route to US Highway 27. Impacts to wetlands caused by the proposed development of the road corridor would be assessed in a site-specific permit review. The permit review would include regulatory agencies review and assessment of

impacts realized by the road corridor which would require mitigation as part of the normal permit approval process.

The transfer of DOI grant funding does not inherently cause a change in the physical environment of this property. Thus, Alternative B would have no impacts on the physical environment, including hydrology, water quality, and air quality.

4.2 Impacts to Physical Environment

The proposed grant funding transfer from the DOI lands property is consistent with the District restoration strategy. The land transfer would allow for the exchange of lands from outside of the current CERP project boundary to lands that are within the CERP western boundary of the WPA in the 3A/3B Seepage Management Area. The proposed road extension tracts are in a degraded environmental condition with observable land clearing, invasive vegetation and some miscellaneous dumping. The subject properties are inadequate in area to effectively implement a restoration project. The lands are located outside of the CERP project boundary and therefore there are no plans to implement restoration activities on these properties. The existing unimproved/unpaved roads which transverse the subject properties allow for access contributing to unauthorized dumping and land management issues.

The transfer of DOI grant funding does not inherently cause a change in the physical environment of this property (no impacts anticipated).

4.3 Impacts to Refuge Facilities

The Arthur R Marshal Loxahatchee National Wildlife Refuge is located an estimated 50 miles to the north. The Everglades and Francis S Taylor Wildlife Area is located west of the subject site. The refuge is managed under a license agreement between the South Florida Water Management District and the U.S. Fish and Wildlife Service. The refuge consists of 143,954 acres and provides a habitat for migratory and wading birds, mammals, amphibians, and reptiles. Endangered and threatened species, including the Everglades snail kites, wood stork, American Alligator and Florida sandhill crane utilized the habitat provided by the refuge. The northeastern boundary of the Everglades National Park (ENP) is located west and south of the subject properties.

Based on the proximity and that the replacement property would be a part of a proposed CERP restoration project no anticipated impact to the refuge or the ENP is anticipated (no impacts anticipated).

4.4 Biological Consequences

There are no immediate or anticipated biological consequences associated with the transfer of DOI property tracts. The proposed road extension tracts are part of an area that was determined to not be viable for the C-9 Impoundment project and are located outside of the current restoration project boundary. These properties are in a degraded conditional and do not provide critical habitat. Additionally, they are isolated from the CERP property

boundary and the replacement property is part of a large project area that would provide for the implementation of a restoration project. The replacement property is also located adjoining the WCA 3B.

The proposed grant funding transfer is not anticipated to impact biological resources (no impacts anticipated).

4.5 Impacts to Vegetation and Habitat

The two proposed road extension tracks consist of fragments of a larger track and are in degraded condition. Therefore, these lands would not provide habitat needed for natural environment range and territory. The proposed federal grant funding transfer of these properties proposed for a road extension project will not cause measurable changes to vegetation within this property. The onsite vegetation is highly degraded with a mix of wetlands, and invasive, non-native vegetation. The subject property does not provide Critical Habitat for protected species.

Thus, the proposed grant funding transfer is not anticipated to have impacts on localized vegetation, soil, water, or wildlife habitat (no impacts anticipated).

4.6 Impacts to Wildlife

There are no immediate or anticipated impacts or consequences to wildlife associated with the transfer of DOI property tracts. The area of the proposed road extension tracts was determined to not be eligible for inclusion into the restoration project for reasons including selenium concentrations in the soil that could impact local species of concern. These properties are not part of a large project area that would provide for the implementation of a restoration project. The properties are separated from the everglade's habitat in the WCA by Highway 27, while the replacement property directly adjoins the WCA.

The proposed grant funding transfer does not impact wildlife (no impacts anticipated).

4.7 Impacts to Threatened and Endangered Species

The revised restoration strategy proposes to construct the C-11 and C-9 reservoir to the north and south of the DOI subject tracts. The two proposed tracts are not designated for use within any plan restriction project. The subject tracts are in degraded conditions and do not provide critical habitat. These properties are in a developed area that includes wetland mitigations areas, residential development, site clearing, unpaved roads, invasive plants and a waste recycling facility. Based on the limited sizes of the properties and the condition, the proposed federal grant funding transfer within the WPA will not negatively impact threatened or endangered species. The transfer to the land at the western section of the WPA in the 3A/3B seepage area would provide for enhanced habitat connectivity within a large property and with the WCA to the west.

The proposed grant funding transfer does not impact threatened or endangered species (no impacts anticipated).

4.8 Socioeconomic Consequences

The proposed federal grant transfer would not have an adverse effect on socioeconomic parameters that would affect the public. The property transfer will allow for the extension of the Miramar Park Way to be extend to US HWY 27. The road extension will provide residents an improved excavation route during emergency hurricane and other events. The road connection will allow the city to implement a critical component of their road plan to improve the interconnectivity of the City arterial roadway. The replacement property to the DOI subject properties will be incorporated within the CERP project boundary. The exchange of the DOI subject property to the property within the CERP project boundary will benefit the regional ecological restoration plan.

The development of the proposed grant funding transfer will not cause negative socioeconomic consequences (no impacts anticipated).

4.9 Impacts on Environmental Justice

President Bill Clinton signed the Executive Order 12898 “Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations” on February 11, 1994, to focus federal attention on the environmental and human health conditions of minority and low-income populations with the goal of achieving environmental protection for all communities. The Order directed federal agencies to develop environmental justice strategies to aid in identifying and addressing disproportionately high and adverse human health or environmental effects of their programs, policies, and activities on minority and low-income populations. The Order is also intended to promote nondiscrimination in federal programs substantially affecting human health and the environment and to provide minority and low-income communities with access to public information and participation in matters relating to human health or the environment.

In the area within generally a half mile of the subject property, the population consisting of minorities is 60 percent, which is higher than the state average of 46 percent and the low-income population is 5 percent. There are no adverse impacts identified from the land exchange proposed. Thus, it does not appear that the proposed project would have environmental justice concerns. An Environmental Justice Screen Report is in **Appendix J**.

The proposed grant funding transfer will not disproportionately place any adverse environmental, economic, social, or health impacts on minority or low-income populations (no impacts anticipated).

4.10 Impacts on Public Health and Safety

The proposed property transfer will allow for the extension of the Miramar Park Way to be extend to US HWY 27. The road extension will provide residents an improved excavation

route during emergency hurricane and other events, which could improve safety and allow easier access to emergency services. The road connection will allow the city to implement a critical component of their road plan to improve the interconnectivity of the City arterial roadway. The relocation of the DOI subject property will be incorporated within the CERP project boundary. The transfer of the DOI subject property to the replacement property within the CERP project boundary will benefit the regional ecological restoration plan also.

Relocation of the grant funding is not anticipated to have any impacts on human health and safety (no impacts anticipated).

4.11 Impacts on Recreation

No recreational opportunities are currently available on the property based on the lack of improved site access for public use or development of infrastructure. Public recreational opportunities are available on the adjacent lands to the west, including the Everglades and Francis S. Taylor Wildlife Management Area, the Milton E. Thompson County Park to the North, and the Everglades National Park located to the south.

The proposed federal grant funding transfer will not negatively affect recreational opportunities on this site (no impacts anticipated).

4.12 Cultural Resource Consequences

Based on a Janus Research Inc. Cultural Resource Desktop Analysis, the property tracts which are included within Alternative B, have no known archaeological or historic resources, and removing these parcels does not inherently cause disturbance or disruption of the physical conditions of the properties. The properties are proposed for the extension of the Miramar Parkway. Prior to implementing construction activities that disturb site conditions, typically a more comprehensive assessment that includes site work would be conducted.

4.13 Cumulative Impacts Analysis

The analysis reviewed the cumulative impacts to the environment resulting from incremental effects of a proposed action when these are added to other past, present, and reasonably foreseeable future actions.

The USFWS is currently assessing the cumulative impacts through a Section 7 Intra-Service Biological Evaluation related to this proposal. That decision will be included upon receipt as an addendum to the Final Environmental Assessment for this proposed action. While cumulative effects may result from individually minor actions, they may become substantial over time. The proposed plan is to transfer funding from two remnant properties located outside of the CERP project boundary to a property to the west within the CERP boundary to benefit an ongoing restoration project. It is anticipated that the USFWS's Section 7 Biological Evaluation will report no impacts to listed or proposed resources.

As stated in Chapter 2, the new proposed grant funding transfer (Alternative B) would transfer funding from the properties proposed for road construction that were determined to

not be able to be included in the C-11 project, with a replacement property within the proposed 3A/3B Seepage Management Area. It is the SFWMD staff's opinion that the proposed fund transfer would provide an equitable value and would enhance the physical, biological, socioeconomic, and cultural and historic characteristics of the current environment after the proposed transfer to the state of Florida. As such, there are no expected cumulative impacts of this action.

CHAPTER 5. Consultation and Coordination

The SFWMD and DOI have worked together over the past 1 year to identify and assess properties that could be included in the proposed federal land grant transfer that would result in an equitable exchange and would provide benefits to the mission and goals of both entities. The transfer of the land grant funding from the subject properties would include other federal, state, and tribal agencies, as well as the interested public, who will have an opportunity to review and comment on this proposal. Notification of the opportunity to comment and where to obtain copies of the Environmental Assessment were announced in the Sun Sentinel (**Appendix C**).

References

BEM Systems Inc (2005) Environmental Evaluation Summary Report 3A/3B Seepage Management Areas & C-9/C-11 Impoundment Areas

Broward County Trafficways Plan Map (2020)

Broward County Wellfield Protection Zones & Contaminated Sites, Broward County Environmental Engineering and Permitting Division, Wellfield Data – 2013, Contaminated Sites Data – 2018.

Environmental Consulting and Technology, Inc. (2019) East Coast Buffer Regional Selenium Project

Hourican, J., & Albert, M. U.S. Army Corps of Engineers and South Florida Water Management District. (2018). Broward County Water Preserve Area Facts & Information [Fact Sheet]. U.S. Army Corps of Engineers.

Janus Research Inc. (2022) Cultural Resource Desktop Analysis for the Proposed Miramar Parkway Property Swap in Broward County, Florida.

SFWMD Correspondence to DOI dated 11/19/21. Transfer of Federal Grant Encumbrance from LWCF Grant in Broward County to facilitate the construction of the Miramar Parkway/ Pembroke Road Extension

SFWMD Environment Science Unit. (2021) Screening Level Phase I Environmental Assessment

U.S. Army Corps of Engineers. (2021). Intermediate Design Development Report (DDR), BCWPA C-11 Impoundment.

U.S. Army Corps of Engineers Formerly Used Defense Site (FUDS) Geographical Information System <https://www.usace.army.mil/Missions/Environmental/Formerly-Used-Defense-Sites/FUDS-GIS/>

Human Health Risk Assessment for Fort Lauderdale Bomb Target 7 (Bombing Range)

Screening Level Ecological Risk Assessment for Fort Lauderdale Bomb Target 7 (Bombing Range)

United States Department of Agriculture's Natural Resources Conservation Service's survey for Broward County, Florida

Protected Areas Viewer <https://www.usgs.gov/programs/gap-analysis-project/science/protected-areas>

USFWS. (2021). National Wetlands Survey. Retrieved from wetland mapper: <https://www.fws.gov/wetlands/Data/Mapper.html>

United States EPA. (2020) Environmental Justice Screen Report of User Specified Area <https://ejscreen.epa.gov/mapper/>

United States Geological Survey. (2018). 7.5-Minute Quadrangle Lauderdale / Miami Map

APPENDIX A: Environmental Action Statement

Within the spirit and intent of the Council on Environmental Quality regulations for implementation of the National Environmental Policy Act (NEPA) and other statute orders and polices that protect fish and wildlife resources, I have established the following administrative record and determined the proposed land exchange with the State of Florida and the Department of the Interior. The actions include removal of specific grant-funded restrictions on properties owned by the SFWMD that were deemed unable to be used for the C-11 project in exchange for the placement of specific grant-funded restrictions on a second property within the proposed 3A/3B Seepage Management Area.

Check one:

- _____ Is a categorical exclusion as provided by 516DM2, Appendix 1 and 516DM5, Appendix 1, Section 1.4 A (4). No further NEPA documentation will therefore be made.
- _____ Is found not to have significant environmental effects as determined by the attached Environmental Assessment finding and No Significant Impacts.
- _____ Is found to have a significant effect and therefore further consideration of this action will require a notice of intent to be published in the Federal Register announcing the decision to prepare an EIS.
- _____ Is not an emergency action within the context of the 40 CFR 1 506 1 1. Only those actions necessary to control the immediate impacts of the emergency will be taken. Other related actions remain subject to NEPA review.

Other Supporting Documents

Environmental Assessment Report
FWS Endanger Species Act, Section 7 Consultation

Signature Approval:

APPENDIX B: Finding of No Significant Impact (FONSI)

Finding of No Significant Impact (FONSI)

Introduction

On November 19, 2021, the South Florida Water Management provided a letter to the U.S. Department of the Interior which requests the removal of specific grant-funded restrictions on properties to be provided to the City of Miramar that are located within a Miramar Parkway extension corridor in exchange for the placement of specific grant-funded restrictions on a replacement property that will be exchanged. A copy of the SFWMD correspondence letter is attached in **Appendix G**.

The "District plans to grant approximately 4.75 acres of land from two tracts in Broward County to the City of Miramar for the extension of a major neighborhood arterial roadway known as Miramar Parkway. The tracts were acquired using Department of Interior ("DOI") funding at a rate of 50% of the purchase price. These tracts are located outside of the current CERP project boundary.

Alternatives

The grant-funded restrictions removal process access three alternatives. Alternative B was selected as the "Preferred Alternative," which is the proposed action to allow for long-term resource protection, enhanced wildlife habitat and population management, and further public wildlife-oriented recreation. The overriding concern reflected in this plan is ensuring quality habitat and protection to native species while providing compatible recreational experiences for the public.

Revised Alternative A: No Action - Current Land Ownership

Under Alternative A, no land replacement would occur. The grant funding would continue to encumber the proposed road corridor properties. This continued ownership, which would eliminate the ability to develop the improvement to the City of Miramar evacuation routes i.e., the Miramar Parkway extension and relocate the encumber ownership to within a current CERP project boundary.

Alternative B: New Proposed Action - Removal of Federal Interest in Miramar Parkway Corridor, extension properties for Replacement Properties

The new proposed action would equalize the values of the exchange of properties for the removal of the encumbrance and federal nexus from the proposed Miramar Parkway extension Properties. In exchange, SFWMD would transfer the federal interest encumbrance to the replacement property located in the proposed 3A/3B Seepage Management Area. The transfer properties were partially acquired with LWCF-1 funds.

Alternative C: New Proposed Action – Removal of Federal Interest in Miramar Parkway corridor properties

The new proposed action would require, if available, the acquisition of properties within the current WPA restoration project boundary. The estimated acquisition cost is \$60,000. Once acquired, SFWMD would grant the ownership to DOI and remove the encumbrance and federal nexus from the Miramar Parkway corridor properties. In exchange, SFWMD would transfer the federal interest encumbrance to the newly acquired property. This alternative is problematic, however, due to property availability, and budgetary and time constraints.

Selection Rationale

The transfer of grant funding restrictions from the proposed Miramar Parkway corridor properties would facilitate the consolidation of restoration properties within the WPA 3A/3B Seepage Management Area. The transfer would also relocate the DOI interest to within a current CERP project boundary. The funding transfer provides DOI with conservation lands for the development of the 3A/3B Seepage Management Area, which will enhance hydrologic restoration and provide ecological and wildlife benefits. The WPA restoration projects which include the 3A/3B Seepage Management Area, and C-9 and C-11 Impoundments is necessary to keep freshwater flows within the WCA Everglades ecosystem, which enhances ecological resources. This development of the Miramar Parkway extension project would provide the local communities with a necessary enhanced evacuation routes during an emergency.

Environmental Effects and Consequences

The physical, biological, socioeconomic, and cultural and historic characteristics of the DOI property transferee site will be retained. The proposed relocation of the DOI encumbrance lands in the 3A/3B Seepage Management Area would provide for additional land ownership within the western WPA allowing for enhanced hydrologic and ecological and wildlife benefits through increased freshwater storage and flow. The cumulative effects of this proposed transfer for grant funding are not expected to be substantial.

Cumulative Impacts

Cumulative impacts on the environment result from the incremental effects of a proposed action when these are added to other past, present, and reasonably foreseeable future actions. While cumulative effects may result from individually minor actions, they may become substantial over time. The proposed land exchange (Alternative B) would transfer funding restrictions from properties that cannot be used for a restoration project to a property within the 3A/3B Seepage Management Area restoration project. The subject properties would be developed for the Miramar Parkway road extension. The replacement property will be included within the WPA CERP project boundaries. The increased landownership within the western WPA would provide for hydrologic, ecological and wildlife benefits. Therefore, the cumulative effects of this action are not expected to be substantial.

Coordination

The U.S. Fish and Wildlife Service (USFWS) and the SFWMD have actively communicated and coordinated regarding the proposed land exchange. The USFWS and SFWMD have discussed the possibility of a land exchange involving WPA properties and the potential

benefits to the ongoing CERP project. Both Broward County and the City of Miramar have included the road extension within their traffic planning documents. A copy of the EA document was published in local media to inform the public of the proposed land transferee has been kept informed of this land exchange through various media. The Service Regional Office (RO) personnel and staff biologists have conducted reviews of the transfer of funding restrictions.

Findings

Based on the findings of the EA's and the USFWS's reviews, the proposed removal of funding restriction does not constitute a major federal action significantly affecting the quality of the human environment under the meaning of Section 102(2)(c) of the National Environmental Policy Act of 1969 (as amended). As such, an environmental impact statement is not required.

1. Both beneficial and adverse effects have been considered, and this action will not have a significant effect on the human environment. (Environmental Assessment, page 14)
2. The actions will not have a significant effect on public health and safety. (Environmental Assessment, page 15)
3. The project will not significantly affect any unique characteristics of the geographic areas, such as proximity to historical or cultural resources, wild and scenic rivers, or ecologically critical areas. (Environmental Assessment, pages 13 and 15)
4. The effects on the quality of the human environment are not likely to be highly controversial. (Environmental Assessment, page 12)
5. The actions do not involve highly uncertain, unique, or unknown environmental risks to the human environment. (Environmental Assessment, page 14)

Mike Piccirilli
U.S. Fish and Wildlife Service
Chief of Wildlife and Sportfish Restoration Program
Atlanta, Georgia

Date

benefits to the ongoing CERP project. Both Broward County and the City of Miramar have included the road extension within their traffic planning documents. A copy of the EA document was published in local media to inform the public of the proposed land transferee has been kept informed of this land exchange through various media. The Service Regional Office (RO) personnel and staff biologists have conducted reviews of the transfer of funding restrictions.

Findings

Based on the findings of the EA's and the USFWS's reviews, the proposed removal of funding restriction does not constitute a major federal action significantly affecting the quality of the human environment under the meaning of Section 102(2)(c) of the National Environmental Policy Act of 1969 (as amended). As such, an environmental impact statement is not required.

1. Both beneficial and adverse effects have been considered, and this action will not have a significant effect on the human environment. (Environmental Assessment, page 14)
2. The actions will not have a significant effect on public health and safety. (Environmental Assessment, page 15)
3. The project will not significantly affect any unique characteristics of the geographic areas, such as proximity to historical or cultural resources, wild and scenic rivers, or ecologically critical areas. (Environmental Assessment, pages 13 and 15)
4. The effects on the quality of the human environment are not likely to be highly controversial. (Environmental Assessment, page 12)
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Mike Piccirilli
U.S. Fish and Wildlife Service
Chief of Wildlife and Sportfish Restoration Program
Atlanta, Georgia

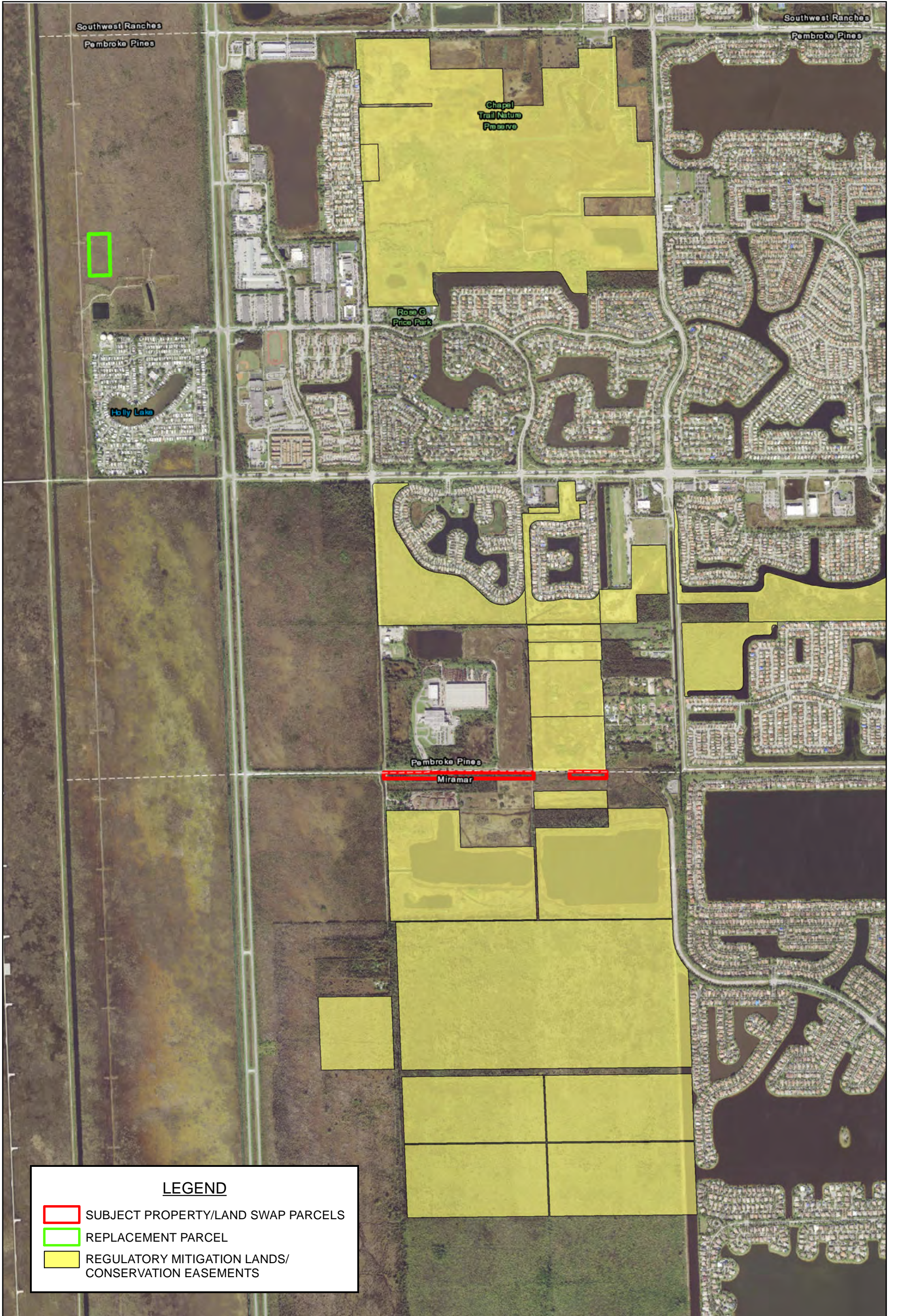
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APPENDIX C: Public Comment

Transfer of Grant Fund Restrictions

On _____, an announcement of the proposed grant funding transfer appeared in the Sun Sentinel, a daily newspaper distributed in Miami-Dade, Broward and Palm Beach counties.

**APPENDIX D: Maps of Subject and Replacement Properties and Map of WPA
Projects**



LEGEND

- SUBJECT PROPERTY/LAND SWAP PARCELS
- REPLACEMENT PARCEL
- REGULATORY MITIGATION LANDS/
CONSERVATION EASEMENTS

DRAWN BY
CEF

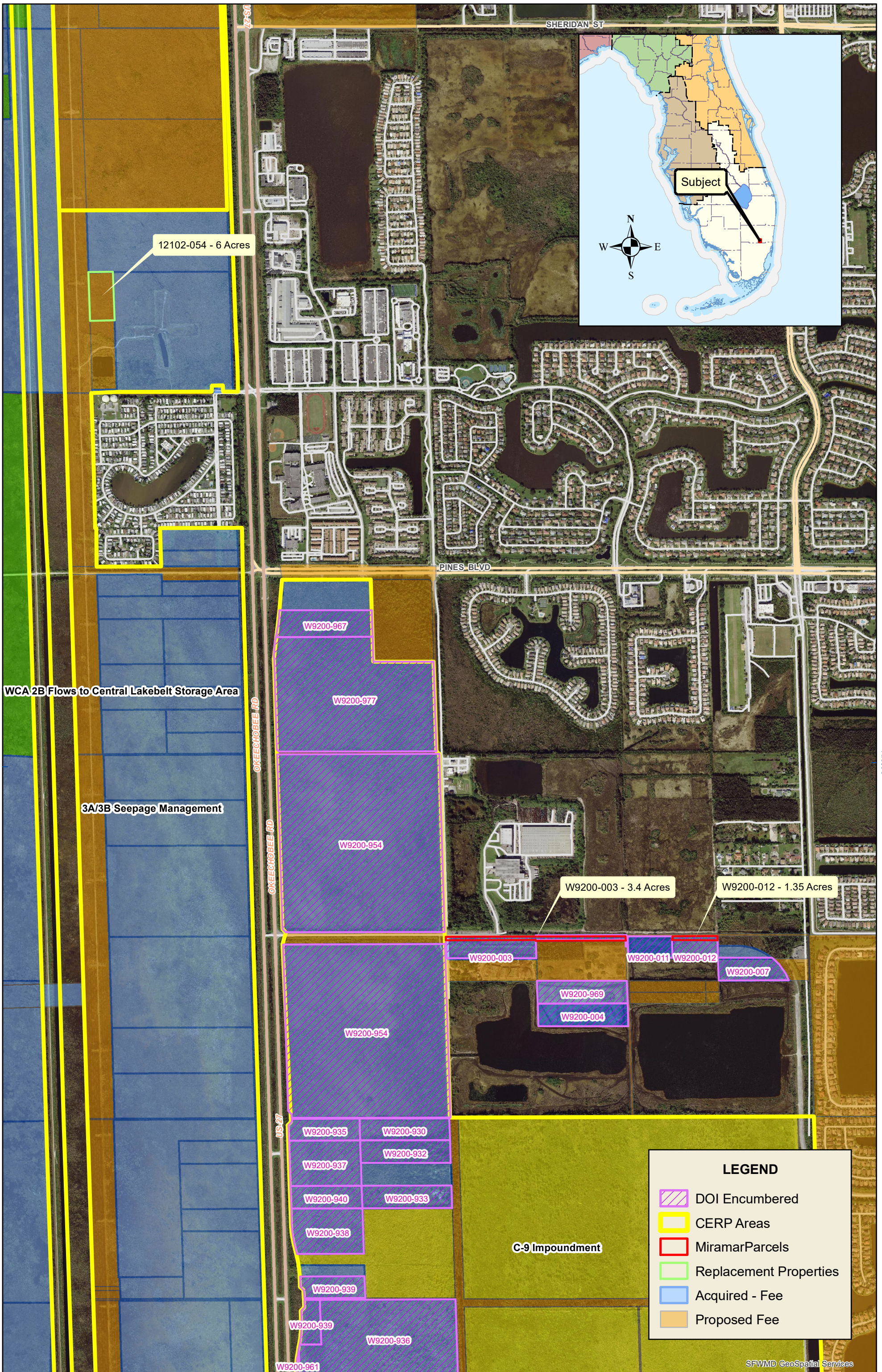
SCALE:
1 INCH = 1,600 FEET

DATE CREATED
2/16/2022



PROPERTY LOCATION MAP
MIRAMAR PARKWAY PEMBROOK ROAD EXTENSION
BROWARD COUNTY

FIGURE
1



12102-054 - 6 Acres

WCA 2B Flows to Central Lakebelt Storage Area

3A/3B Seepage Management

W9200-967

W9200-977

W9200-954

W9200-003 - 3.4 Acres

W9200-012 - 1.35 Acres

W9200-003

W9200-011

W9200-012

W9200-007

W9200-969

W9200-004

W9200-954

W9200-935

W9200-930

W9200-937

W9200-932

W9200-940

W9200-933

W9200-938

W9200-939

W9200-939

W9200-936

W9200-961

SHERIDAN ST

PINES BLVD

US-27

OKEECHOBEE RD

OKEECHOBEE RD

US-27

LEGEND

-  DOI Encumbered
-  CERP Areas
-  MiramarParcels
-  Replacement Properties
-  Acquired - Fee
-  Proposed Fee

C-9 Impoundment

APPENDIX E: Broward County Water Preserve Area Facts & Information

FACTS & INFORMATION



JANUARY 2018

The Broward County Water Preserve Areas (BCWPA) project is part of the Comprehensive Everglades Restoration Plan (CERP). It consists of three components that were recommended as part of CERP:

- C-11 Impoundment
- C-9 Impoundment
- Water Conservation Area (WCA) 3A/3B Seepage Management

These components will provide various functions, including reducing seepage from WCA 3, reducing phosphorous loading to WCA 3A, capturing water lost to tide, and providing conveyance features for urban and natural system water deliveries. These functions will be achieved by separating stormwater from seepage collected from WCA 3 and diverting stormwater from Western C-11 Basin and the C-9 Basin to the impoundments.

PROJECT PURPOSE

The project is designed to perform two primary functions:

- Reduce seepage loss from Water Conservation Area (WCA) 3A/3B to the C-11 and C-9 basins.
- Capture, store, and distribute surface water runoff from the western C-11 Basin that has been discharged into WCA 3A/3B.

Additional project functions include maintaining existing level of service for flood mitigation, groundwater recharge, increasing spatial extent of wetlands, and improving hydroperiods and hydropatterns in WCA 3A/3B.

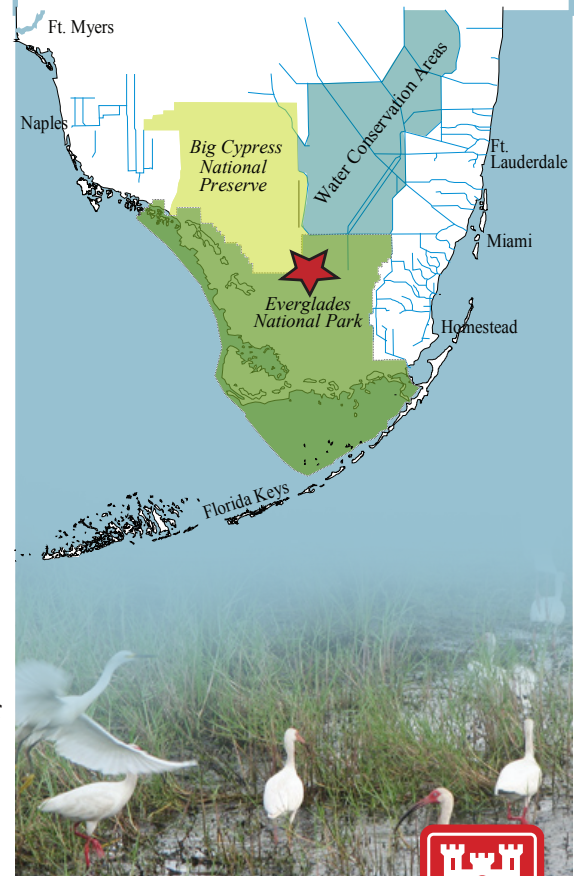
Existing water reservations will not be affected. Approximately 563,000 acres in WCA 3 and 200,000 acres in the greater Everglades will benefit from the project's implementation. The project will also benefit federally listed threatened and endangered species and many wading birds.

PROJECT STATUS

The project was authorized by the Congress in the 2014 Water Resources Reform and Development Act (WRRDA). The initial construction contract—for the Northern Mitigation Area A Berm (MAAB) portion of the C-11 component—was awarded in September 2017.

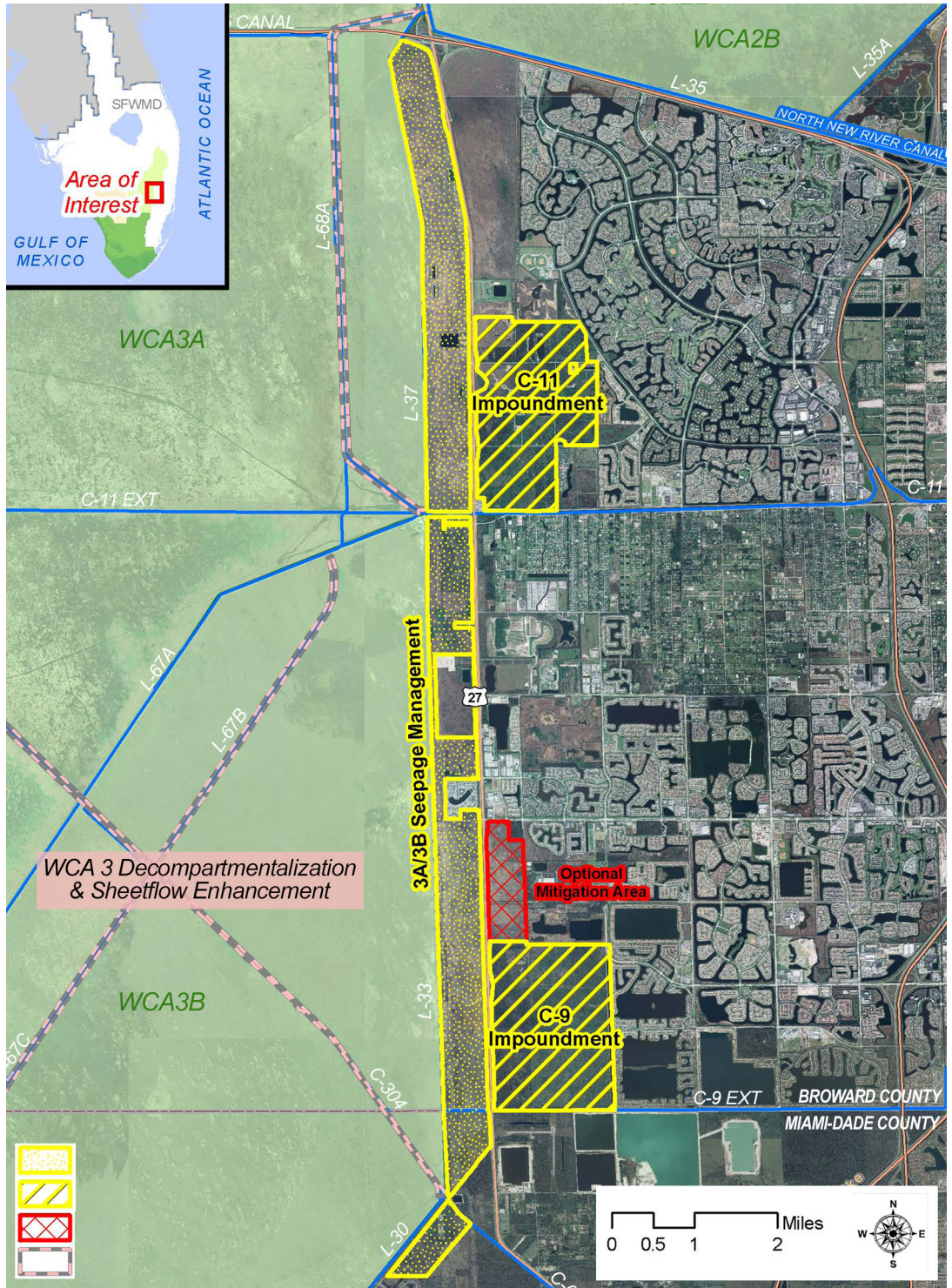
PROJECT LOCATION

The project study area is located in western Broward and Miami-Dade counties in south Florida. The project lands are bordered by WCA 3A/3B, Interstate 75, and the Miami Canal (C-6), and are within the city limits of Weston, Pembroke Pines, Miramar, and the town of Southwest Ranches.



THE SELECTED PLAN

The selected plan includes two aboveground impoundments, associated pumps, and water control structures. The C-11 Impoundment has an effective interior storage of 1,068 acres; two wetland marsh mitigation areas north of the C-11 Impoundment have 488 acres of wetland marsh. The C-9 Impoundment has an effective interior storage of 1,641 acres. The 4,353-acre WCA 3A/3B Seepage Management Area will manage seepage loss from the WCA 3A/3B and connect the two impoundments with a conveyance canal. The three components work together to form a regional project that manages seepage loss, captures stormwater, and conveys water for other purposes.



FOR MORE INFORMATION <http://www.saj.usace.army.mil/Missions/Environmental/Ecosystem-Restoration/Broward-County-Water-Preserve-Areas/>



JAMES HOURICAN
 Project Manager
 P.O. Box 4970
 Jacksonville, FL 32232-0019
 james.j.hourican@usace.army.mil
 904-232-1268



MIKE ALBERT
 Project Manager
 3301 Gun Club Road
 West Palm Beach, FL 33406
 malbert@sfwmd.gov
 561-682-6900



APPENDIX F: Broward County Traffic Ways Plan

BROWARD COUNTY TRAFFICWAYS PLAN

LEGEND

Classification	Symbol	R/W
Limited Access/Controlled		325'
Arterial		200'
		144'
		120'
		110'
		106'
		100'
Collector		94'
		80'
		70'
One-Way-Pair		54'
		42'
Irregular Designation		0.0'
Context Sensitive Corridor		Subject to Specific Plans

AREA PLANNING BOARD Adoption Dates

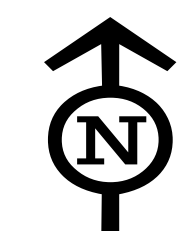
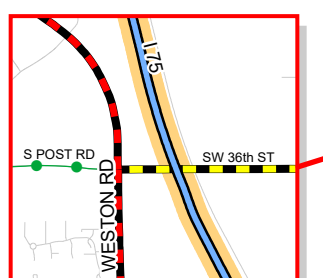
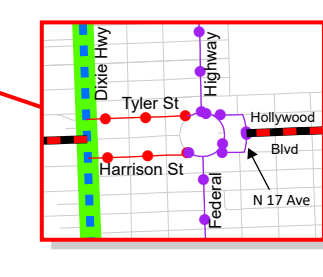
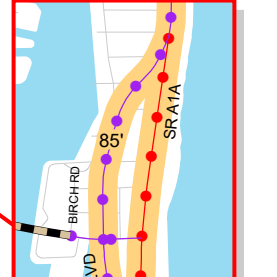
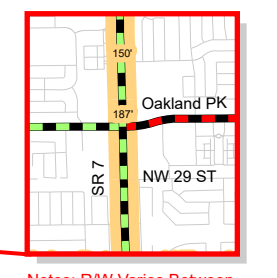
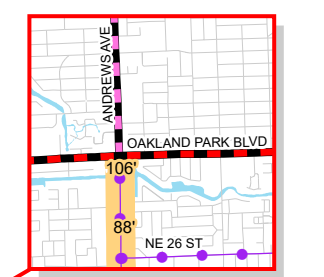
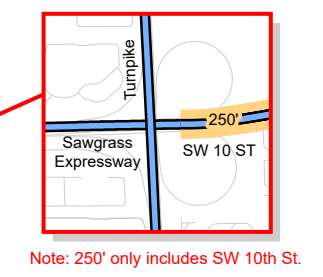
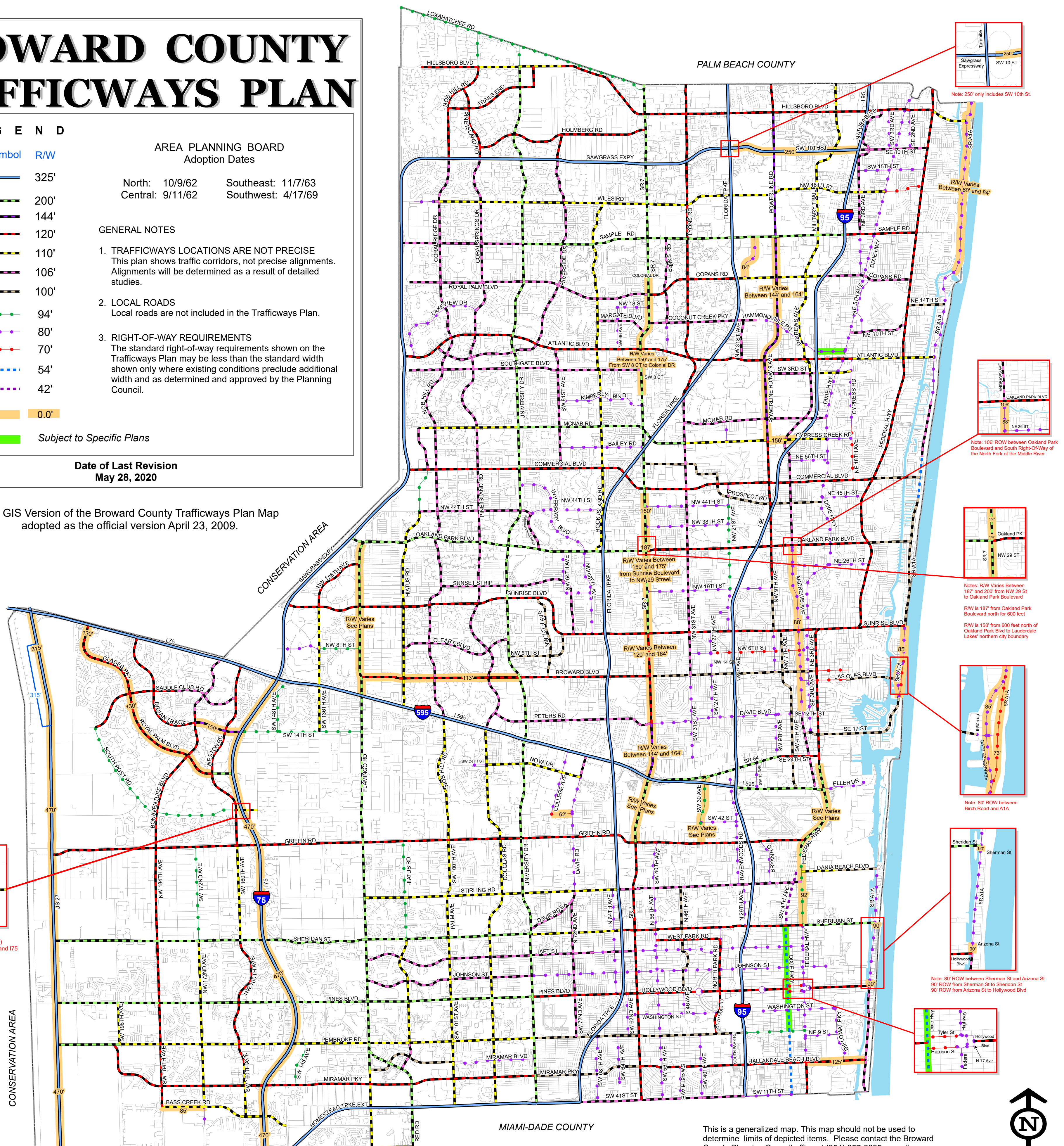
North: 10/9/62 Southeast: 11/7/63
 Central: 9/11/62 Southwest: 4/17/69

GENERAL NOTES

1. TRAFFICWAYS LOCATIONS ARE NOT PRECISE
This plan shows traffic corridors, not precise alignments. Alignments will be determined as a result of detailed studies.
2. LOCAL ROADS
Local roads are not included in the Trafficways Plan.
3. RIGHT-OF-WAY REQUIREMENTS
The standard right-of-way requirements shown on the Trafficways Plan may be less than the standard width shown only where existing conditions preclude additional width and as determined and approved by the Planning Council.

Date of Last Revision
May 28, 2020

The GIS Version of the Broward County Trafficways Plan Map adopted as the official version April 23, 2009.



This is a generalized map. This map should not be used to determine limits of depicted items. Please contact the Broward County Planning Council office at (954) 357-6695 regarding questions pertaining to alignments or limits.

Not to Scale
For Informational
Purposes Only

APPENDIX G: SFWMD Correspondence Letter to DOI



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

VIA EMAIL/US MAIL

November 19, 2021

Mr. Adam Gelber
U.S. Department of the Interior
Director of Office of Everglades Restoration Initiatives
7595 SW 33rd Street, Nova CCR Building
Davie, FL 33314

Subject: Transfer of Federal Grant Encumbrance from LWCF Grant in Broward County to facilitate the construction of the Miramar Parkway / Pembroke Road Extension

Dear Mr. Gelber:

The purpose of this correspondence is to submit a formal request for the transfer of federal grant funding.

Transfer Properties

The South Florida Water Management District (the "District") plans to grant approximately 4.75 acres of land from two tracts in Broward County to the City of Miramar for the extension of a major neighborhood arterial roadway known as Miramar Parkway / Pembroke Road. The tracts were acquired using Department of Interior ("DOI") funding at a rate of 50% of the purchase price. These tracts do not ly within a CERP project area.

The following tables provides a summary of relevant information for the DOI encumbered properties:

Name:	Tract 1	Tract 2
County:	Broward	Broward
Tract ID:	W9200-003	W9200-012
Total Acres:	3.400	1.350
Total Land cost:	\$102,000	\$36,450
Acquisition date:	9/24/1999	3/31/2000
Federal funding:	\$51,000	\$18,225
Funding source:	LWCF	LWCF
Appraised value:	\$150,000	\$60,000

Mr. Adam Gelber
November 19, 2021
Page Two

Replacement Property

A replacement parcel has been identified within the 3A/3B Seepage Management Area, an existing CERP project. As indicated by the tables below the replacement property will be deeded to the District as a replacement for the land to be acquired and used for the roadway.

The following table provides a summary of information for the proposed grant funding replacement property:

Name:	
County:	Broward
Tract ID:	12102-054
Acres:	6
Land cost:	Donation
Acquisition Date:	TBD
Funding Source:	N/A
Appraisal:	\$60,000

Additional Documentation

Additional document provided in support of this application is listed below:

1. Aerial Map

Thank you in advance for your prompt review of this request.

Sincerely,

Stephen M. Collins
Division Director, Real Estate

Enclosures

c: Ray Palmer
Marcy Zehnder
Joseph J. Martin

APPENDIX H: Site Assessment Reports



Environmental Engineers and Scientists

September 27, 2005

05-3055CSEO

Bob Taylor
South Florida Water Management District
3301 Gun Club Road, Building B-1
West Palm Beach, Florida 33406


**RE: Environmental Evaluation Assessment Report
3A/3B Seepage Management Areas and
C-9/C-11 Impoundment Areas
Broward and Dade Counties, Florida**

Dear Mr. Taylor:

BEM Systems, Inc. (BEM) is pleased to submit to the South Florida Water Management District (SFWMD), three hard copies and three electronic copies of the Environmental Evaluation Assessment Report prepared for the 3A/3B Seepage Management Areas and C-9/C-11 Impoundment Areas. This report was prepared to evaluate the current environmental status of the 411 land tracts that comprise the 3A/3B Seepage Management Areas and C-9/C-11 Impoundment Areas.

If you have any questions or comments, please feel free to contact me at (407) 894-9900.

Sincerely,
BEM Systems, Inc.


Christopher Pisarri
Staff Geologist

cc: file



Environmental Evaluation Summary Report 3A/3B Seepage Management Areas and C-9/C-11 Impoundment Areas

South Florida Water Management District
Comprehensive Everglades Restoration Program
Broward and Dade Counties, Florida

Report Date: August 2005

Site Location Sections 33 & 34, Township 49 South, Range 39 East
Sections 3, 4, 9, 10, 14, 15, 22, 23, 26, 27, & 34, Township 50 South, Range 39 East
Sections 3, 10, 15, 22, 26, 27, 34 & 35, Township 51 South, Range 39 East
Sections 3, 9 & 10, Township 52 South, Range 39 East

Site Name: 3A/3B Seepage Management Areas and C-9 and C-11 Impoundment Areas

County: Broward and Dade Counties, Florida

Consultant Company: BEM Systems, Inc.

Address: 930 Woodcock Road, Suite 101

City, State, Zip: Orlando, Florida 32803

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CERTIFICATION:

BEM Systems, Inc., certifies that this Phase I ESA has been completed in a professional manner consistent with the environmental industry and BEM's proposal dated 16 May 2005. In accordance with the scope of work, this assessment report is certified to the SFWMD, its successors, and/or assigns.

Consultant Name: Chris Pisarri, Senior Environmental Scientist, BEM Systems, Inc.

Consultant Signature: Christopher J. Pisarri Date: August 2005



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EXECUTIVE SUMMARY

BEM Systems, Inc. (BEM) has conducted an environmental evaluation on behalf of the South Florida Water Management District (SFWMD) of 407 parcels which comprise the 3A/3B Seepage Management Area and the C-9/C-11 Impoundment Areas - components of the Comprehensive Everglades Restoration Program (CERP). This evaluation was conducted to summarize the environmental status of the individual parcels that comprise the 3A/3B Seepage Management Area and the C-9/C-11 Impoundment Areas to guide the implementation of this project from preparation of the Project Management Plan through the completion of construction for the Acceler8 Program.

The project area consists of approximately 14.2 square miles that is located within Sections 33 & 34, Township 49 South, Range 39 East, Sections 3, 4, 9, 10, 14, 15, 22, 23, 26, 27, & 34, Township 50 South, Range 39 East, Sections 3, 10, 15, 22, 26, 27, 34 & 35, Township 51 South, Range 39 East, and Sections 3, 9 & 10, Township 52 South, Range 39 East of Broward and Dade Counties, Florida.

The northern portion of the project area extends to the U.S. Highway 27 and Interstate 75/595 interchange in Broward County and the southern portion of the project area is located along the northern boundary of Thompson Park located east of Krome Avenue in Dade County. The portion of the project area located within the 3A/3B Seepage Management Areas extend in a north-south direction between the western right-of-way of U.S. Highway 27 and the Everglades Wildlife Management Area in Dade and Broward Counties. Land use associated with the individual parcels, which comprise the project area range from undeveloped marsh to industrial/commercial use.

The scope of work for this environmental evaluation of the 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas included the following tasks:

- A historic aerial photograph review of readily available photographs;
- A regulatory file review;
- Aerial inspection (helicopter) of the land tracts;
- Preparation of tables and figures that identify the land tracts that require additional assessment or corrective action; and
- Inclusion of relevant information obtained from BEM's modified Phase I ESA, dated August 2005, of 195 land tracts located within the project area to eliminate existing data gaps.
- Preparation of an Environmental Evaluation report that provides a summary of the findings for the 407 land tracts located within the project area and includes recommendations for additional assessment (if necessary) of areas of recognized environmental concern (RECs).

BEM has performed this modified Environmental Evaluation Summary Report of the 407 land tracts located the 3A/3B Seepage Management Areas and C-9/C-11 Impoundments Area located in Broward and Dade Counties, Florida, in conformance with the scope and limitations of BEM's proposal dated 16 May 2005. **No environmental conditions were**



identified from the use, storage or disposal of hazardous chemicals for 358 of the 407 land tracts (88%) of the 3A/3B Seepage Management Areas and C-9/C-11 Impoundments Area that would preclude their use from the proposed restoration project.

Based upon the findings of this environmental evaluation summary report, only 49 of the 407 (12%) land tracts which comprise the 3A/3B Seepage Management Areas & C-9/C-11 Impoundments require additional assessment. A summary recommended additional assessment activities and cost estimates for these 49 land tracts is provided on **Table E-1**.

Of the 49 remaining sites, ten land tracts (Tracts 12102-012, 12102-013, 12102-014, 9201-047, 9201-072, 9201-075, 9201-076, 9201-096, 9311-051, 9312-023) were identified as requiring remediation or corrective action prior to use for the restoration project. These land tracts are associated with illegal disposal sites (Tracts 12102-012, 12102-013, 12102-014, and 9201-096), a chemical storage barn (Tract 9201-047), an asphalt plant (Tracts 9201-072, 9201-075, and 9201-076) and former pig farms (Tract 9311-051, 9312-023).

Twenty-six of the 49 land tracts require soil and/or groundwater investigations to assess for impacts associated with historic agriculture (crops, foliage, and livestock) activities, disposal practices, petroleum storage, and industrial and commercial activities.

Eight of the 49 land tracts require a regulatory file review or a thorough site inspection to assess if potential RECs warrant additional investigation. The regulatory review is required to assess if there are any recent chemical spills or petroleum discharges that could have impacted the land tracts. A site inspection is necessary at Tracts 9200-930, 9201-066, and 9201-118 to determine if petroleum storage tanks remain at the sites. If storage tanks are identified onsite or evidence of a petroleum discharge (soil staining) is observed, then the completion of a Tank Closure Assessment or Site Assessment is recommended.

The remaining parcels require the preparation of an asbestos survey, abandonment of septic tanks or removal of abandoned structures. The extent of the required additional assessment for these sites varies since several of the land tracts had multi-purpose land use.

It should be noted that borrow pits were excavated on several of the land tracts within the project area. It is possible that various types of debris have been discarded into the borrow pits that is not visible above the surface of the water. The potential exists that mining equipment, piping, metal buckets, draglines, household appliances, furniture, and automotive parts were discarded into the borrow pits or buried within the area that surrounds the borrow pits. Any debris encountered in the borrow pits or within the surrounding area should be disposed appropriately.

BEM certifies that this Environmental Evaluation Summary Report has been completed in a professional manner consistent with BEM's proposal dated 16 May 2005. In accordance with the scope of work, this report is certified to the SFWMD, its successors, and/or assigns.

Table E-1
Estimated Costs for Land Tracts Requiring Additional Assessment

Tract Number	Recommendations	Estimated Assessment Costs ^{1, 2}
7 Individual Land Tracts	<ul style="list-style-type: none"> Initial soil assessment in the former foliage fields 	\$35,000 to \$70,000 for all sites
12102-012 12102-013 12102-014	<ul style="list-style-type: none"> Removal of debris Removal of lead from shooting range Engineering controls 	\$2,000,000 to \$10,000,000 at Bishop/Nixon Property. Property is not owned by SFWMD.
6 Individual Land Tracts	<ul style="list-style-type: none"> Site Inspection File Review 	\$5,000 to \$10,000 for all sites
9200-001	<ul style="list-style-type: none"> Preparation of a UXO plan 	⁽¹⁾ Pending excavation and construction of restoration project. U.S. Army Corps – Jacksonville to re-evaluate site in FY 2006.
3 Individual Land Tracts	<ul style="list-style-type: none"> Initial soil assessment from the former cattle pens 	\$30,000 to \$50,000 for all sites
9200-921 <u>Buddhist Temple</u>	<ul style="list-style-type: none"> Installation of a monitor well Collection of a groundwater sample 	\$5,000 to \$10,000
40 Individual Land Tracts	<ul style="list-style-type: none"> Abandonment of septic systems 	\$45,000 to \$80,000 for all sites
20 Individual Land Tracts	<ul style="list-style-type: none"> Asbestos survey 	\$10,000 to \$20,000 for all sites
9200-951 <u>White Property</u>	<ul style="list-style-type: none"> Removal of machinery Collection of soil samples 	Ongoing Assessment by Property Owner's environmental consultant (CRB) Report to be provided to SFWMD and FDEP
9201-047 <u>Manson Property</u>	<ul style="list-style-type: none"> Removal of selenium impacted soils in the vicinity of the storage barn. Asbestos survey Abandonment of septic systems 	\$5,000 to \$15,000
9201-061 9201-072 9201-075 9201-076 9201-080 9201-087 <u>Weekley Property</u>	<ul style="list-style-type: none"> Soil assessment and excavation Tank Closure Assessments Groundwater assessment Abandonment of septic systems Removal of equipment and debris Removal of aggregate piles 	Ongoing Assessment by Property Owner's consultant (CRB). CRB to provide the SFWMD, FDEP and USFWS with the assessment report for review and comment Property Owner Required to Remove Large Soil, Concrete and Asphalt Piles
9201-071 <u>Griffin Brothers</u>	<ul style="list-style-type: none"> Soil Assessment for Tank Closure Abandonment of septic systems Removal of remaining equipment and debris 	\$10,000 to \$20,000
9201-086 <u>Smith Property</u>	<ul style="list-style-type: none"> Collection of soil samples from petroleum-impacted areas Removal of remaining equipment and debris 	Ongoing Assessment by Property Owner's consultant (CRB). Soil excavation conducted at petroleum-impacted areas. CRB to provide the SFWMD, FDEP and USFWS with assessment report for review and comment.
9201-096 <u>Dubner Property</u>	<ul style="list-style-type: none"> Removal of solid waste Excavation of metals-impacted soil Removal of remaining debris Abandonment of septic systems 	\$5,000 to \$15,000

**Table E-1
Estimated Costs for Land Tracts Requiring Additional Assessment**

Tract Number	Recommendations	Estimated Assessment Costs^{1, 2}
9311-049 <u>Coast to Coast Foliage</u>	<ul style="list-style-type: none"> • Soil and Groundwater Assessment • Asbestos Survey • Abandonment of septic system • Removal of structures and debris 	\$50,000 to \$150,000 Property has not been acquired by the SFWMD. Possible Dade County wetland violations
9311-051 <u>Pig Farm</u>	<ul style="list-style-type: none"> • Excavation of impacted soil • Removal of existing structures • Abandonment of collection pits and septic systems. 	Current Assessment and Remediation Being Conducted By SFWMD Environmental Consultant. Excavation and assessment methods have been approved by USFWS.
9311-055 (Encroachment)	<ul style="list-style-type: none"> • Soil and Groundwater Assessment • Asbestos Survey • Abandonment of septic system • Removal of structures and debris 	\$10,000 to \$20,000 Possible encroachment by property owner of 9311-049. Structures and landscape foliage located onsite from adjacent property.
9312-023 <u>Muniz Property</u>	<ul style="list-style-type: none"> • Excavation of impacted soil recommended at the former pig pen. 	\$5,000 to \$7,000 Costs to remove pesticide-impacted soil at a small pig pen.
9312-024 9312-026	<ul style="list-style-type: none"> • Soil assessment • Removal of structures and debris 	\$15,000 to \$30,000 for both
9312-008	<ul style="list-style-type: none"> • Demolition of structure • Asbestos survey • Removal of debris 	\$10,000 to \$20,000
9312-018	<ul style="list-style-type: none"> • Removal of 200 to 300 discarded tires • Dade County will help with disposal process 	\$1,000 to \$3,000
	Estimated Additional Assessment Costs	\$2,241,000 to \$10,520,000

NOTE The cost estimate presented in this table is based upon limited information and should not be relied upon for budgetary funding or cleanup purposes. The cost estimate is provided for use to evaluate the potential costs associated with additional assessment activities recommended for the land tracts. Cost estimates for land tracts that were identified as requiring multiple types of additional assessment/corrective actions (soil excavation, groundwater sampling, asbestos surveys) will likely vary from the amount provided in this summary table since these activities involve the use of subcontracted companies to complete the required tasks.

1. The preparation of a UXO plan by a qualified firm or the U.S. Army Corps will be required should any excavation or other types of earth-moving activities be conducted at Tract 9200-001 as part of the restoration project.
2. Cost estimates are based upon:
 - a) An assumed initial soil sampling plan of 3 soil samples per site for analysis of organochlorine pesticides, organophosphorus pesticides and metals.
 - b) A typical asbestos survey will be approximately \$500 to \$1,000 per site.
 - c) A typical septic tank abandonment will be approximately \$1,500 to \$2,000 per site.
 - d) Estimates provided in assessment reports conducted by other consultants
 - e) Disposal costs for materials are not included for structures.
 - f) Disposal costs for used tires is \$3.50 per tire.
 - g) Information provided by the SFWMD

The cost table does not include funding for delineation, remediation or corrective action should the initial soil assessment at the foliage fields report levels above regulatory cleanup criteria.



1.0 INTRODUCTION

BEM Systems, Inc. (BEM) has conducted an Environmental Evaluation on behalf of the South Florida Water Management District (SFWMD) of 407 land tracts that comprise the 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas in Broward and Dade Counties, Florida, **Figure 1-1**. The purpose for conducting this regional environmental evaluation is to aid the SFWMD in distinguishing which land tracts require additional assessment or corrective action from those tracts that already meet the criteria for the projected future landuse. This type of “big picture” environmental evaluation is necessary to expedite the Comprehensive Everglades Restoration Program (CERP) restoration efforts of the Everglades in accordance with the goal of the Acceler8 Program. The Acceler8 Program is intended to expedite the restoration process (funding, design and construction) in order to complete eight Everglades restoration projects over the next seven years. In addition, this assessment was conducted to obtain U.S. Fish and Wildlife Service (USFWS) approval of these land tracts for their future intended use as a component of the CERP. This environmental evaluation report is organized into the following sections:

- Section 1 Introduction
- Section 2 Historical Records Review Sources
- Section 3 Physical Setting
- Section 4 Regulatory Review
- Section 5 Site Inspection
- Section 6 Summary of Findings
- Section 7 Summary of Tracts Requiring Additional Assessment/Corrective Action
- Section 8 Environmental Evaluation Report Conclusions

1.1 Site Description

The project boundary for the 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas encompasses an area of approximately 14.2 square miles that is located within Sections 33 & 34, Township 49 South, Range 39 East, Sections 3, 4, 9, 10, 14, 15, 22, 23, 26, 27, & 34, Township 50 South, Range 39 East, Sections 3, 10, 15, 22, 26, 27, 34 & 35, Township 51 South, Range 39 East and Sections 3, 9 & 10, Township 52 South, Range 39 East of Broward and Dade Counties, Florida.

The northern portion of the project area extends to the U.S. Highway 27 and Interstate 75/595 interchange in Broward County and the southern portion of the project area is located along the northern boundary of Thompson Park in Dade County. The portion of the project area located within the 3A/3B Seepage Management Areas extend in a north-south direction along the western right-of-way of U.S. Highway 27 in Broward and Dade Counties, **Figure 1-2**.

The project area will be utilized for water storage and groundwater recharge to reduce seepage from the Everglades National Park and improve water quality entering the Everglades watershed. A majority of the project area consists of undeveloped land that contains saw grass and other types of dense vegetation. Other types of land use within the project area include: residential, commercial/industrial, and agriculture.



Table 1-1 provides a list of the 407 land tracts that are included within this project area as identified by the SFWMD. **Figure 1-2** illustrates the entire project area plotted on an aerial photograph, including the individual boundaries for each of the 407 land tracts.

1.2 Methodology

BEM conducted the environmental evaluation of the 3A/3B Seepage Management Area and the C-9/C-11 Impoundment Areas, by reviewing project-specific SFWMD memorandums and internal audits, various types of correspondence, and environmental assessment reports prepared on behalf of the SFWMD. The reviewed information was obtained from the records depository located at SFWMD's Dupris Field Office. BEM also obtained project boundary maps and various types of metadata from the SFWMD's Geographical Information Services (GIS) Department. The GIS data was utilized to identify the location and boundaries of each individual parcel within the project area and correlate the parcel's unique identification number with the assessment records maintained by the SFWMD.

BEM conducted a regulatory database search to help identify land tracts within the project area or within the vicinity of the project area that were identified as sites of recognized environmental concern (RECs). BEM contacted Environmental Data Resources, Inc. (EDR), a commercial database service, to conduct a regulatory search for the 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas project boundary as identified on the GIS maps provided by the SFWMD. A summary of the regulatory database search is provided in Section 4 of this report.

In addition, BEM conducted a modified Phase I ESA for 195 of the 407 land tracts located within the project area to eliminate existing data gaps that were identified during a project status meeting conducted by the SFWMD and BEM on 14 July 2005. The findings and conclusions from BEM's modified Phase I ESA were incorporated into this environmental evaluation summary report to update the assessment status for each of the land tracts.

The findings from BEM's records review and regulatory search were supplemented with an aerial inspection to evaluate those land tracts that require additional assessment or corrective action. Upon review of the available records and observations of the project area during the site inspection, the environmental status of each particular land tract was categorized as either "requiring additional assessment" or "no additional assessment required". In addition, BEM noted which land tracts were suspected of utilizing septic systems for sanitary waste disposal as requested by the SFWMD's Land Management Department.

1.3 User Reliance

BEM certifies that this Environmental Evaluation Summary Report has been completed in a professional manner and was conducted in accordance with BEM's proposal dated 16 May 2005 (**Appendix A**). This Environmental Evaluation Summary Report of the 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas is certified to SFWMD and/or their assigns.

**Table 1-1
Summary of Land Tracts Within the Project Area**

<u>Tract Identification Number</u>	<u>Pre-Acquisition Program Owner</u>	<u>Acquisition Status</u>
12100-001	PONTIOUS, G. AND S. AND PONTIOUS, H. AND B.	Acquired
12100-002	MAGLIATO, JOSEPH A. ET AL	Acquired
12100-003	REISS, RICHARD AND DEBORAH AND SHULMAN, JOEL	Acquired
12100-004	SCHUCHTER, WILLIAM R. TRUSTEE	Acquired
12100-005	BARTZ AND RICHARDSON	Acquired
12100-006	ALTMAN, ALLEN TRUSTEE	Acquired
12100-008	ROBBINS, RUTH AND SEYMOUR	Acquired
12100-011	CAROSI, MIMI AND BARBARA, ET AL	Acquired
12100-012	Broward County Government Center	Proposal
12100-013	MANGIERO, A. AND GRACE	Acquired
12100-014	MANGIERO, NICHOLAS AND ANNETTE	Acquired
12100-015	ANTONUCCI, ANTHONY J.	Acquired
12100-016	CONFORTI, MARIO J.	Acquired
12100-017	PALLOTTO, GEORGE L. ETAL	Acquired
12100-018	HASHEMI, A. HAMID, TRUSTEE	Acquired
12100-019	UDELL, MONROE	Acquired
12100-020	FEOLA, VALENTINE A. AND RACHAEL	Acquired
12100-021	VERGOTE, LEO H.	Acquired
12100-022	AXELROD, SAM TRUSTEE	Acquired
12100-024	SALTER, BEN, TRUSTEE	Acquired
12100-025	VOGENITZ, RICHARD B.	Acquired
12100-026	EHRlich, NANCY SUSAN ET AL	Acquired
12100-027	STANLEY H. MARGOLIS, TRUSTEE	Acquired
12100-028	SWART, WILLIAM E., ESTATE OF	Acquired
12100-029	SHAPIRO, NOEL ET AL	Acquired
12100-030	ALTMAN, ALLAN, TRUSTEE	Acquired
12100-031	BELSON, RHONDA	Acquired
12100-032	TUPLER, AUSTIN AND RUTH, ET AL	Acquired
12100-033	MC CARTY, A. R. AND NANCY E. AND REESE J. T. AND E. M.	Acquired
12100-037	CHERRY, ANNIE LEE ETAL	Acquired
12100-038	BENNETT L. DAVID III, JAMES E. CLINE ETAL	Acquired
12100-039	SALTER, BEN, TRUSTEE	Acquired
12100-040	SFWMD	Acquired
12100-041	MOSER, WILLIAM AND EMMA AND JONES, ROY C.	Acquired
12100-042	PONTIOUS, HAROLD E. AND BETTY L.	Acquired
12100-043	SFWMD	Acquired
12100-044	PONTIOUS, HAROLD	Acquired
12100-045		Proposal
12100-046		Proposal
12100-047	GOHDE, ALMA	Acquired
12100-048	GOHDE, ALMA	Acquired
12100-049	ANDERSEN, BRUCE D. AND DILLON, KAROLYN	Acquired
12100-056	SMITH, JAMES C. AND CLARK, ROBERT L., TR	Acquired
12100-058	SMITH, JAMES C. AND CLARK, ROBERT L., TR	Acquired
12100-059		Proposal
12100-060		Proposal
12100-061	TIIF	Proposal
12100-062		Proposal
12100-070		Proposal
12100-077		Proposal
12100-078		Proposal
12100-079		Proposal
12100-082		
12101-001	VELARDI, SALVATORE JR., ET AL	Acquired
12101-002	SCHREIBER, RONALD AND LESLIE	Acquired
12101-003	FLORIDA 2000, INC.	Acquired
12101-004	WILLIAMS, PEARL	Acquired
12101-005	LEINER, SIMON AND ARLINE	Acquired
12101-006	RAKVICA, JAMES A., A SINGLE MAN	Acquired
12101-007	CARDULLO, RAYMOND R. ETAL	Acquired
12101-008	HERNANDEZ, PABLO A.	Acquired
12101-009	ANDREW ALAN WINTER, UNREARRIED WIDOWER	Acquired
12101-010	NGOK, YAU CHEUK ETUX/NGOK	Acquired
12101-011	MARCELINA & FORTUNATO BACOMO, AS TRUSTEE/COHN	Acquired
12101-012	HERNANDEZ, CARLOS A. JOSE	Acquired
12101-013	LEINER, SIMON AND ARLINE	Acquired
12101-014	LUSSKIN, BERT L.	Acquired
12101-015	KATZ, JEROME, TRUSTEE	Acquired
12101-016		Proposal
12101-017	Dahlmeyer	Proposal
12101-018	FORMAN, C.	Acquired
12101-019	JEWISH FEDERATION OF SOUTH FLORIDA, INC.	Acquired
12101-020	KRAFT, THOMAS E., JR. AND SHIRLEY	Acquired
12101-021	LEONARD U. STOLAR, TRUSTEE	Acquired
12101-022	SHORTRIDGE, MARILYN	Acquired
12101-023	BERSHTEIN, HERMAN	Acquired
12101-024	PATEL, NAVNIT C. ETAL	Acquired
12101-025	KATZ, JEROME, TRUSTEE	Acquired
12101-026	BARON, RONALD TRUSTEE	Acquired
12101-027	TUPLER, AUSTIN W. AND RUTH	Acquired
12101-028		Proposal
12101-029	BURNS, JAMES ALLEN TRUSTEE	Acquired

**Table 1-1
Summary of Land Tracts Within the Project Area**

<u>Tract Identification Number</u>	<u>Pre-Acquisition Program Owner</u>	<u>Acquisition Status</u>
12101-030	CODLING, R.W. TRUSTEE	Acquired
12101-031		Proposal
12101-032	KATZ, JEROME, TRUSTEE	Acquired
12101-033	FORMAN, HAMILTON C.,JR.	Acquired
12101-034	FORMAN, HAMILTON C. AND DORIS D.	Acquired
12101-036	BENNETT L. DAVID III, AS TRUSTEE	Acquired
12101-037	FINNEY, MARILYN RICHARDSON	Acquired
12101-038	AMATO, R. A. AND JOYCE	Acquired
12101-039	R.L.A. PROPERTIES, INC.	Acquired
12101-040	VARON, J. A. AND STAHL S. S.JR.	Acquired
12101-041	VARON, J. A. AND STAHL S. S. JR.	Acquired
12101-042	VARON, J. A. AND STAHL S. S.JR.	Acquired
12101-044	DAVID, BENNETT L. TRUSTEE	Acquired
12101-045	MCCARTY,A.R. ETAL, REESE E.M. HIRAM E.	Acquired
12101-046	DUNHAM, BETTY L.	Acquired
12101-047	BENNETT L. DAVID, TRUSTEE	Acquired
12101-048	DUNHAM, BETTY L.	Acquired
12101-049	JOHNSON, GERTRUDE C.	Acquired
12101-050	JOHNSON, GERTRUDE C.	Acquired
12101-051	JOHNSON, LAWRENCE D. AND ANITA L.	Acquired
12101-052	JOHNSON, LAWRENCE D. AND ANITA L.	Acquired
12101-053	JENNINGS, EDWARD, TRUSTEE	Acquired
12101-054	FORMAN, C.	Acquired
12101-055	FORMAN, C.	Acquired
12101-056	MITCHELL, MICHAEL N.	Acquired
12101-057	TUPLER, AUSTIN AND RUTH, ET AL	Acquired
12101-058	MITCHELL, MICHAEL N.	Acquired
12101-059	TUPLER, AUSTIN W. AND RUTH	Acquired
12101-060	HASHEMI, ABDOL HAMID, TRUSTEE	Acquired
12101-061		Proposal
12101-062	CABALLERO, MERCEDES	Acquired
12101-063	SONTAG (TAX DEED TO THE NATURE CONSERVAN	Acquired
12101-064	FRISBEE, EDWARD WILLIAM	Acquired
12101-065	HUNTER, WILLIAM F., JR., AS TRUSTEE	Acquired
12101-066	FORMAN, C.	Acquired
12101-067	SANTOVENIA, ENEIDA E.	Acquired
12101-068	CARBONE, RICHARD, ET AL	Acquired
12101-069	LEE VINSON, INC.	Acquired
12101-070	DOWNNS, JORDAN AND FRONIA G.	Acquired
12101-071	WIDOFF, GERSON F. AND MICHAEL G. TRUSTEES	Acquired
12101-072	FORMAN, MILES AUSTIN, JR.	Acquired
12101-073	FORMAN, HAMILTON C. AND DORIS D.	Acquired
12101-074	CHERESKO, WALTER TRUSTEE	Acquired
12101-075		Proposal
12101-076	FORMAN, C.	Acquired
12101-077		Proposal
12101-078		Proposal
12101-079		Proposal
12101-080	SFWMD	Acquired
12101-081	SFWMD	Acquired
12101-083		PropEsmt
12101-084	RAKVICA, JAMES A., A SINGLE MAN	Acquired
12101-087	FISCHER, FREDERICH AND SANDRA L.	Acquired
12101-088	DAMIANI, FRANCES E.. A/K/A FRANCES ELIZA	Acquired
12101-090	FLORIDA 2000, INC.	Acquired
12101-091	ROBERTSON, IAN & ELIZABETH	Acquired
12101-092	BERSHTEIN, HERMAN	Acquired
12102-001	SFWMD	Acquired
12102-002	DAVID, BENNETT L. TRUSTEE	Acquired
12102-003	HAMPTON, RICHARD W. ETUX	Acquired
12102-004	AMBROZICH, JOSEPH ETAL	Acquired
12102-005	TERRY, MORTON ETAL	Acquired
12102-006	SHAPIRO, NOEL ET AL	Acquired
12102-007	BELSON, LEONARD ETAL	Acquired
12102-008	SPIELMAN, MICHAEL AND ALIX	Acquired
12102-009	AXELROD, SAM, TRUSTEE	Acquired
12102-010		Proposal
12102-011	REDD, JAMES V. AND CAROL H.	Acquired
12102-012	GATESWELL (FORMERLY Nixon)	Proposal
12102-013	BISHOP PROPERTY	Proposal
12102-014	DURASKO, JOHN	Acquired
12102-015		Proposal
12102-016	REDD, JAMES V. AND CAROL H.	Acquired
12102-017	BERSHTEIN, HERMAN	Acquired
12102-018	BERSHTEIN, HERMAN S.	Acquired
12102-019	HARDY, JACK	Acquired
12102-021		Proposal
12102-022		Proposal
12102-023		Proposal
12102-024		Proposal
12102-025		Proposal
12102-026		Proposal

**Table 1-1
Summary of Land Tracts Within the Project Area**

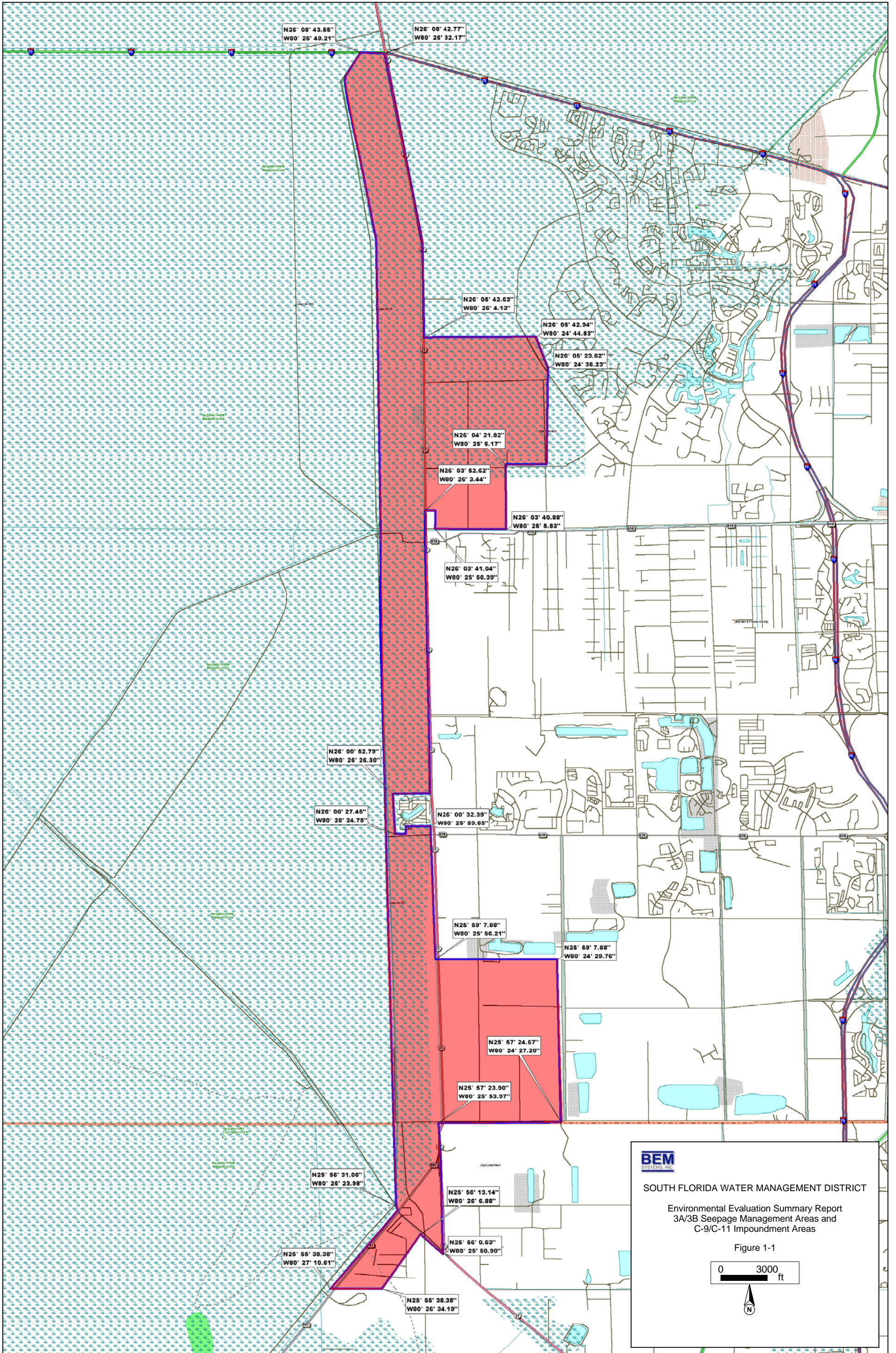
<u>Tract Identification Number</u>	<u>Pre-Acquisition Program Owner</u>	<u>Acquisition Status</u>
12102-027		Proposal
12102-028		Proposal
12102-029		Proposal
12102-030	DAVID, BENNETT L., III	Acquired
12102-031		Proposal
12102-032		Proposal
12102-033	ALANOR, INC./STOLZ	Acquired
12102-034	ALANOR, INC.	Acquired
12102-035		Proposal
12102-036	FRIEDMAN, MURRAY	Acquired
12102-037	LUSSKIN, BERT L.	Acquired
12102-038	GULSHAN BHAG SINGH, ET AL	Acquired
12102-039	GULSHAN BHAG SINGH, ET AL	Acquired
12102-040	MAZZARELLA, ANTHONY AND FRANCES	Acquired
12102-041	KRONENBERG, ERIC AND CLARE	Acquired
12102-042	MAZZARELLA, ANTHONY AND FRANCES	Acquired
12102-043	MAGLIATO, JOSEPH A. ET AL	Acquired
12102-044	HASHEMI, A. HAMID, TRUSTEE	Acquired
12102-045	MAGLIATO, JOSEPH A. ET AL	Acquired
12102-046		Proposal
12102-047	NEWMAN, STANLEY S., INDIV. AND AS TRUSTEE	Acquired
12102-048	ROMAJO PARTNERSHIP, LTD.	Acquired
12103-001	KREMER, JOHN M.	Acquired
12103-002	VARON, J. A. AND STAHL S. S. JR.	Acquired
12103-003	VARON, J. A. AND STAHL S. S., JR	Acquired
12103-004	ESTATE OF STEPHEN A. CALDER	Acquired
12103-005	VARON J. A. AND STAHL S. S., JR.	Acquired
12103-006	VARON J. A. AND STAHL S. S., JR.	Acquired
12103-007	GORDON, JAMES W. JR. ETUX	Acquired
12103-008	BEN SALTER, TRUSTEE	Acquired
12103-009	SALTER, BEN TRUSTEE	Acquired
12103-010	WIENER, HARVEY JR. M.D.	Acquired
12103-011	MC CARTY, A. R. AND NANCY E.	Acquired
12103-012	BERGERON, RONALD MILTON SR. TRUSTEE	Acquired
12103-013	FORMAN, MILES AUSTIN, HAMILTON C., AND FORMAN, DORIS D.	Acquired
12103-014	ELSASSER, NAN AND DAVID, II AND TERESA	Acquired
12103-015	TOOTHMAN, A. H., TRUSTEE	Acquired
12103-016	FOREMAN, CLYDE E.	Acquired
12103-017	MC CORMICK, ROBERT T. AND PATRICIA A.	Acquired
12103-018	ROVERSE, ROBERT AND MARLENE	Acquired
12103-019	COWLING, JOHN	Acquired
12103-020	CHERNOFF, ABE AND ELEANOR	Acquired
12103-021	GALLO, ENZO AND CARMEN	Acquired
12103-022	DICECCA, JOHN AND ANINA	Acquired
12103-023	GABRIELE, RUDY L., JR. AND JEFFREY	Acquired
12103-024	LEVINSON, B. AND C.	Acquired
12103-025	FRANCIS REALTY COMPANY	Acquired
12103-026	LEVINSON, B. AND C.	Acquired
12103-027	WALTON, A. A. AND MAXINE	Acquired
12103-028	MIAMI CHRISTIAN COLLEGE	Acquired
12103-029	LEE VINSON, INC.	Acquired
12103-030	ZEDECK, LEONARD E. TRUSTEE C/O TRANSFLORIDA BANK	Acquired
12103-032		Proposal
12103-033		Proposal
12103-034		Proposal
12103-035		Proposal
12103-036		Proposal
12103-037		Proposal
12103-038		Proposal
12103-039		Proposal
12103-040		Proposal
12103-041	MIAMI CHRISTIAN COLLEGE	Acquired
12103-042	ZEDECK, LEONARD E. TRUSTEE C/O TRANSFLORIDA BANK	Acquired
27300-127	L & M ASSOC.	Acquired
W9200-001		Esmt
W9200-900	MILLER, JOEL, TRUSTEE	Acquired
W9200-901	GISSENDANNER, ELTON AND FRANCES/MILLER	Acquired
W9200-902	BREGMAN FAMILY	Acquired
W9200-904	ADELMAN, GOLDIE AND NEU, HARIETTE/NANASI	Acquired
W9200-905	GISSENDANNER, ELTON AND FRANCES/MILLER	Acquired
W9200-906	GISSENDANNER, ELTON AND FRANCES	Acquired
W9200-908	LOEWENSTEIN, HENRY J. ET AL	Acquired
W9200-909	MONARCH LAKE ESTATES, INC	Acquired
W9200-910	NEWMAN, JEROME TR.	Acquired
W9200-911	GREENSTEIN, SIDNEY TR.	Acquired
W9200-912	BARON, STAN TR.	Acquired
W9200-913	KLUGER, HAL	Acquired
W9200-914	Indian Trace	Proposal
W9200-915	CARON, ED TR.	Acquired
W9200-916	MARKEL PROPERTIES, LTD. C/O KAUFMAN ROSS	Acquired
W9200-917	FOLINO, JOHN A.	Acquired
W9200-918	HANCOX, RUTH TR.	Acquired

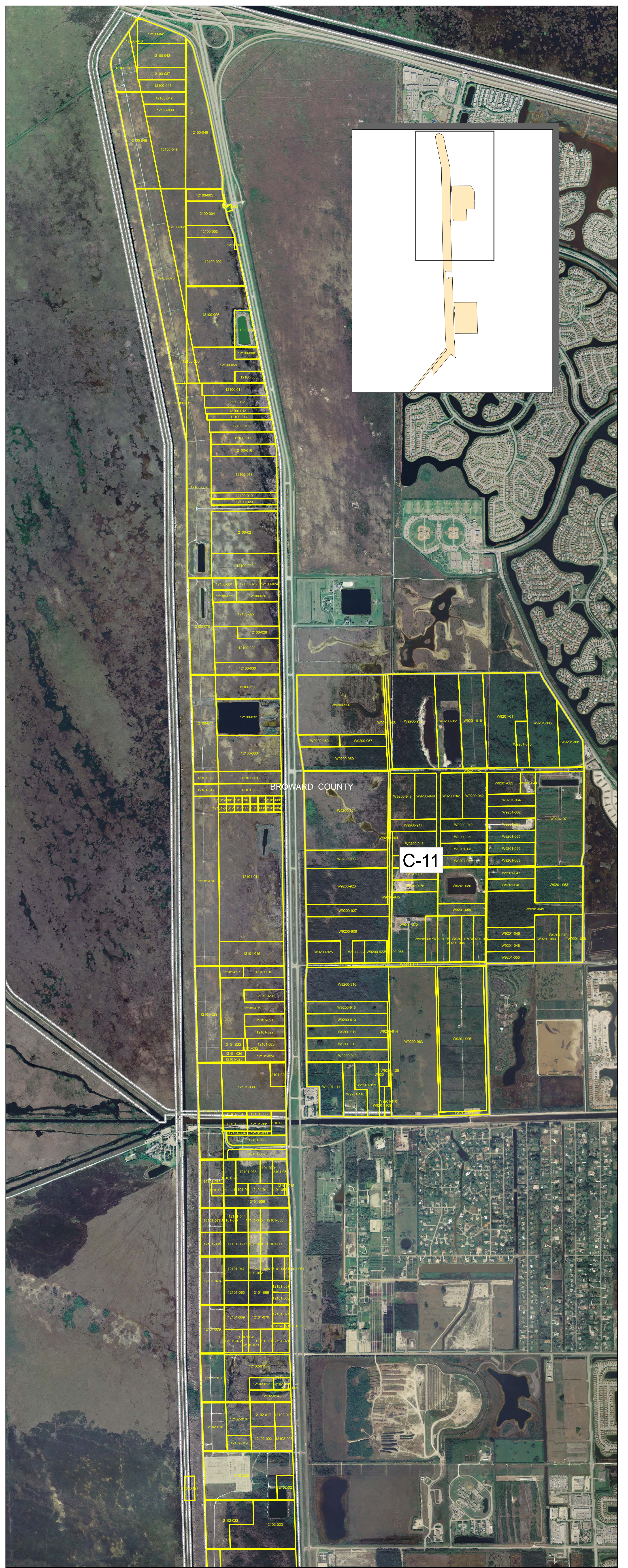
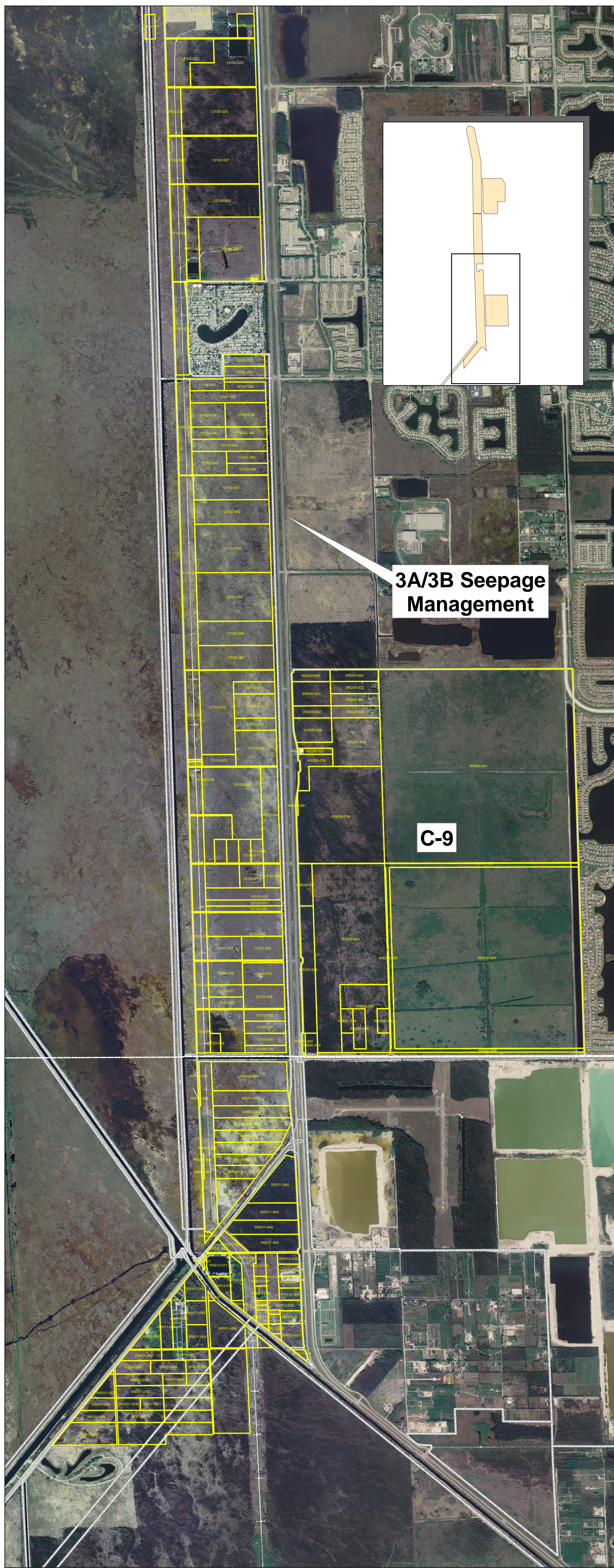
**Table 1-1
Summary of Land Tracts Within the Project Area**

Tract Identification Number	Pre-Acquisition Program Owner	Acquisition Status
W9200-919	SCHULTZ, DONALD	Acquired
W9200-920	BUKELE, ROBERTO	Acquired
W9200-921	VIETNAMESE BUDDHIST CULTURQAL CENTER ETC/HANDY SITE	Acquired
W9200-922	SCHULTZ, DONALD	Acquired
W9200-923	WILSON, RODGER S. AND KATHLEEN J.	Acquired
W9200-924	WALKER	Esmt
W9200-925	FRANCIS REALTY COMPANY	Acquired
W9200-926	MILLER, EUGENE W.	Acquired
W9200-927	GIVENTER, IRIS AND TERRY FUND	Acquired
W9200-928	BREGMAN, MINNIE, ET AL	Acquired
W9200-929	BREGMAN, MINNIE, ET AL	Acquired
W9200-930	KOLT, DAN	Acquired
W9200-931	CPA RENTAL, INC./ELLIOT	Acquired
W9200-932	GOMEZ, SIMON V.	Acquired
W9200-933	LANCIAULT, JOHN & JACQUELINE	Acquired
W9200-934	MIRAMAR LAKES	Esmt
W9200-935	FRANCIS REALTY COMPANY	Acquired
W9200-936	SOPER, HORT A. AND MODAHL, WILLIAM	Acquired
W9200-937	COCHRAN, CARLYLE V. D.	Acquired
W9200-938	COCHRAN, CARLYLE, V. D.	Acquired
W9200-939	COCHRAN, CARLYLE, V. D.	Acquired
W9200-940	VAZQUEZ, JOSE AND MARISTANY, FELIX	Acquired
W9200-941	JOSE KATZ, JACOBO NAIMARK AND JAIME NAIMARK	Acquired
W9200-942	SAPP, A.E. TRUSTEE/1980 LAND TRUST	Acquired
W9200-943	M. & V. INVESTMENT COMPANY	Acquired
W9200-944	ANNETTE L. PARKS, TR.	Acquired
W9200-945	INDIAN TRACE	Proposal
W9200-946	DECARLO, MARIO, ET AL	Acquired
W9200-947	4060 PLAZA, INC. (H. R. BEDESSEE)/MICHELOTTI	Acquired
W9200-948	KATZ, JOSE, ET AL	Acquired
W9200-949	ARMAN, MEYER AND DANIEL	Acquired
W9200-950	DE REMBAUM, MARIA DE REMBAUM AND ETTY/RIBERG INVEST.	Acquired
W9200-951	WHITE CONSTRUCTION COMPANY, INC.	Acquired
W9200-952	TWENTY-SIXTH STREET VENTURES, INC.	Acquired
W9200-956	WALKER	Esmt
W9200-957	KIM, YONG MAE	Acquired
W9200-958	INDIAN TRACE	Proposal
W9200-959	SAPP, A. E. TRUSTEE	Acquired
W9200-960	GONZALEZ, PAUL	Acquired
W9200-961	COCHRAN, CARLYLE V. D.	Acquired
W9200-963	RIBERG INVESTMENTS, INC.	Acquired
W9200-964	INDIAN TRACE	Proposal
W9200-965	Indian Trace	Proposal
W9201-001	PROVINCIAL	Proposal
W9201-005	SUPERSTEIN, NORMAN TR	Acquired
W9201-010	GOLDSTEIN, JACOBO AND PERLA C/O KAUFMAN	Acquired
W9201-011	MARKEL PROPERTIES LTD C/O KAUFMAN ROSSIN	Acquired
W9201-018	PINES VENTURE, LTD.	Acquired
W9201-042	BINNS, ROBERT J	Acquired
W9201-043	GREENWASSER, RALPH TR, C/O ASSOCIATED IN	Acquired
W9201-045	FRIPP, GARTH R	Acquired
W9201-046	LEVY, BARUCH, ET. AL.	Acquired
W9201-047	MANSON, ELEANOR ET. AL.	Acquired
W9201-048	KONSTATINOU, DIMETRIO AND RIMA	Acquired
W9201-049	FUNDEFA INTERNATIONAL, INC./PEREZ	Acquired
W9201-053	THE ESTATES OF SWAN LAKE CORP.	Acquired
W9201-055	THE METHODIST CHURCH DISTRICT BOARD ETC./GALLAT	Acquired
W9201-058	Grafalas Global	Proposal
W9201-059	HAYES, JAMES R. AND PAMELA	Acquired
W9201-061	WEEKLEY BROS LEASING CO.	Acquired
W9201-062	MARUN INC C/O MR. & MRS. MARUN	Acquired
W9201-063	GNARLY GNOME GNURSERY CORP	Acquired
W9201-064	DEUR VOLLBEER, BONNIE/LOW	Acquired
W9201-065	COWHEARD, MARK & CHRISTINE	Acquired
W9201-066	WILSON, ROGER S. AND KATHLEEN J.	Acquired
W9201-067	DAHER, JABIB	Acquired
W9201-070	VEGAS NURSERY INC	Acquired
W9201-071	GRIFFIN BROS CO INC	Acquired
W9201-072	WEEKLEY, DANIEL D., ET. AL.	Acquired
W9201-075	WEEKLEY BROS LEASING CO.	Acquired
W9201-076	WEEKLEY BROS LEASING CO.	Acquired
W9201-080	WEEKLEY, WAYNE D., ET. AL.	Acquired
W9201-083	LYNMAR LIMITED C/O PHILIP J BERGER	Acquired
W9201-084	EDWARDS, CHESTER J & RENEE A	Acquired
W9201-085	KING, HIRAM C & DOROTHY C	Acquired
W9201-086	SMITH, STEPHEN W, ET. AL.	Acquired
W9201-087	WEEKLEY BROS LEASING CO.	Acquired
W9201-096	INVESTORS MTGE FUNDING CORP/Dubner	Acquired
W9201-109	GOODMAN, FAITH & ANTHONY	Acquired
W9201-110	GOODMAN, B. & EHRlich, N., TRUSTEES	Acquired
W9201-111	LEVINSON, MELVIN, TRUSTEE	Acquired
W9201-118	CARLO, GARY	Acquired

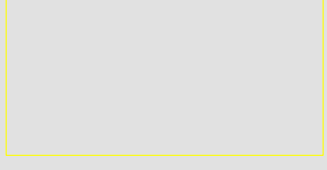


**Table 1-1
Summary of Land Tracts Within the Project Area**

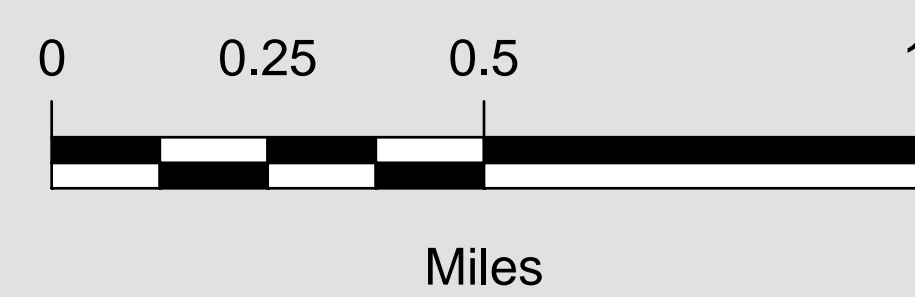
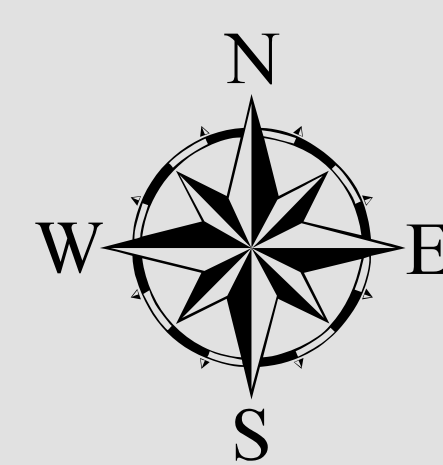
Tract Identification Number	Pre-Acquisition Program Owner	Acquisition Status
W9201-119	DOUGHERTY, TERESA CARLO	Acquired
W9201-124	SULTANOFF, CLAIRE , TR, ET. AL.	Acquired
W9201-128	INDIAN TRACE	Proposal
W9201-140	DONG KIM LUONG	Acquired
W9201-147		Proposal
W9201-151		Proposal
W9300-900	SOLDIERS OF THE CROSS OF CHRIST EVANGELI	Acquired
W9300-901	SOLDIERS OF THE CROSS OF CHRIST CHURCH INC EVANGELI	Acquired
W9300-902	R. PUGLIESE AND COMPANY, INC.	Acquired
W9300-903	TAMAYO, ALBERTO JR. AND FELIPA	Acquired
W9300-904	TAMAYO, ALBERTO JR.	Acquired
W9300-905	OSAT INTERNATIONAL CORP.	Acquired
W9300-906	DWEK, ALBERT AND RENEE	Acquired
W9300-907	DWEK, ALBERT AND RENEE	Acquired
W9300-908	DEJESUS, MARIA CECILIA BETANCURT VELEZ A	Acquired
W9300-909	ANIBAL DEJESUS BETANCUR &W MARIA CECILIA	Acquired
W9300-910	OSAT INTERNATIONAL CORP.	Acquired
W9300-911	OSAT INTERNATIONAL CORP.	Acquired
W9300-965		PropEsmt
W9311-048	TATHAM, BERNICE ET AL	Proposal
W9311-049	Phoenix S & S/Chang	Proposal
W9311-050	TATHAM, BERNICE ET AL	Acquired
W9311-051	MELVIN & TERESA MORENO/Wingate Enterprise	Acquired
W9311-052	CARLTON R COOK &W JEAN	Acquired
W9311-054	TAT CO., A FLORIDA CORPORATION	Acquired
W9311-055	BUELL & IRENE YOUNG TRS ET AL	Acquired
W9311-057	NELSON LINARES	Acquired
W9311-058	J.S.M. HOLDING CORP.	Acquired
W9311-059	DOM INC	Acquired
W9311-060	SIDNEY CROWN TR	Acquired
W9311-065	WILLUNGFREDA MURTGUNE HOLDING CORP/SUN LAND CORP.	Acquired
W9311-066	EDUARDO RAMOS & LEONARDO SAN JUAN	Acquired
W9311-067	GONZALEZ, EMILIO F.	Acquired
W9311-068	ANTONIO GONZALEZ & A L GONZALES	Acquired
W9311-069	RIVKIND, LEONARD & SEGAL, HAROLD J.	Acquired
W9311-070	SILVA, FERNAN	Acquired
W9311-071	WILLUNGFREDA MURTGUNE HOLDING CORP./OVERTOWN INVESTMENT	Acquired
W9311-072	CROWN, SIDNEY & MARTHA CROWN TR	Acquired
W9311-076	DOM INC	Acquired
W9311-077	ROYAL GROUP INVESTMENT, INC.	Acquired
W9311-078	OVIDIO DEL VALLE TR	Acquired
W9311-079	BLANCA ARMADA	Acquired
W9311-080	LEIDA ZARZA	Acquired
W9311-082	TATHAM, BERNICE ET AL	Acquired
W9311-083	BLACK, ROBERT J. TRUSTEE	Acquired
W9311-086		Acq Not Initiated
W9311-088	TATHAM, BERNICE ET AL	Acquired
W9311-524	WILLUNGFREDA MURTGUNE HOLDING CORP.	Acquired
W9311-942	Albert and Felipa Tamayo	Proposal
W9311-943	Antonio Jesus Cruz	Proposal
W9311-944	Eulogio and Martin Villena	Proposal
W9311-945	Armando Blanco	Proposal
W9311-946	FP & L	PropEsmt
W9311-953	Ignacio Rodriguez	Proposal
W9311-984	SILVESTRE S NABAS &W M. CARMEN CERVERA	Acquired
W9311-985	SILVESTRE S. NABAS &W M. CARMEN CERVERA	Acquired
W9312-002	REYNES, DENIA ET. AL.	Acquired
W9312-003	CARPOMEX OF AMERICA INT'L/Cruz	Acquired
W9312-004	CRUZ FLOWER SALES & SUPLIES, INC	Acquired
W9312-005	CUETO, LUIS M AND GEORGIA F	Acquired
W9312-007	FP & L	PropEsmt
W9312-008	PEREZ, CALIXTO AND GLADYS	Acquired
W9312-009	WUSEN, ABRAHAM ET. AL.	Acquired
W9312-010	BLANCO, ARMANDO & MIRIAM, HIS WIFE	Acquired
W9312-012	BLANCO, ARMANDO & MIRIAM, HIS WIFE/RAUPACH	Acquired
W9312-014	GONZALEZ, LAZARO	Negotiation in Progress
W9312-015	PULIDO, ANTONIO	Acquired
W9312-016	GAROFALO, ANTHONY L. AND MARTHA	Acquired
W9312-017	WUSEN, ABRAHAM ET. AL./SUSEN	Acquired
W9312-018	CORREA, FERNANDO AND ANA E	Acquired
W9312-020	PEREZ, MARIA	Acquired
W9312-021	BISM RABBIK FOUNDATION , INC./SOCARRAS/CHARUR	Acquired
W9312-023	REYNALDO BERMUDEZ/MARTINEZ/MUNIZ	Acquired
W9312-024	RAJA, FRENY/DUARTE	Acquired
W9312-025	J. MONTENEGRO EQUIPMENT SERVICE/DELTA HOLDING	Acquired
W9312-026	SOCARRAS, GUSTAVO AND JESUS G	Acquired
W9312-027	DUARTE, JUAN JESUS	Acquired
W9312-028	MARTINEZ, ALFREDO AND ZORAIDA	Acquired
W9312-079	MARJAMA, MICK & W. KRISTEN	Acquired





Explanation

-  All Tracts Included in the Environmental Evaluation Summary 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas
-  Project Area
-  County



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Environmental Evaluation Summary
3A/3B Seepage Management Areas &
C-9/C-11 Impoundment Areas

Site Location Map

BEM ENVIRONMENTAL ENGINEERS & SCIENTISTS
SYSTEMS, INC. ORLANDO, FLORIDA 32803 (407) 894-9900

05-3055CSEO

August 2005

Figure 1-2



2.0 HISTORIC RECORDS REVIEW SOURCES

This section provides a summary of the records that were reviewed by BEM, which detail the historical environmental assessment findings and corrective actions for the land tracts located within the project area.

2.1 SFWMD Memorandum's

BEM reviewed internally prepared SFWMD memorandums dated 10 May 1994 through 29 June 2005, which summarize the environmental status of particular land tracts located within the project area. The SFWMD memorandums summarized the following information:

- Observations and findings of site inspections/audits conducted by the SFWMD,
- Assessment reports prepared by the District's contracted environmental consultants,
- Assessments reports prepared by other environmental consultants on behalf of an individual landowner; and
- Corrective action reports which document the remedial activities conducted by the property owner (or their contracted environmental consultant) to satisfy the closing requirements of the property acquisition.

2.2 Environmental Assessment Reports

BEM also obtained and reviewed previous environmental assessment reports (Phase I and Phase II ESAs) for a number of land tracts located within the project area. The environmental assessment reports reviewed during the preparation of this assessment included:

- BEM Systems Inc., *Phase I & II Environmental Site Assessment for the CPA Rental, Inc. Property/Vietnamese Buddhist Cultural Center of Florida Property/Folino Property, C-9 Project Area*, July 2002.
- BEM Systems Inc., *Phase I Environmental Site Assessment, 26 Condemnation Properties, C-11 Project Area*, August 2002.
- BEM Systems Inc., *Phase II Environmental Site Assessment, Weekley Property (including the Phase I ESA and revision pages), C-11 Project Area*, September 2002 (revised January 2003).
- BEM Systems Inc., *Phase II Environmental Site Assessment, 26 Condemnation Properties, C-11 Project Area*, November 2002.
- BEM Systems Inc., *Phase I Environmental Site Assessment, Indian Trace Property, C-11 Project Area*, March 2003.
- BEM Systems Inc., *Phase I Environmental Site Assessment, Grafalas Global Property, C-11 Project Area*, March 2003.
- BEM Systems Inc., *Phase I Environmental Site Assessment, Markel Property, C-11 Project Area*, January 2004.
- BEM Systems Inc., *Phase I Environmental Site Assessment, Superstein Property, C-11 Project Area*, August 2003.



- BEM Systems Inc., *Phase I Environmental Site Assessment, Provincial Property, C-11 Project Area*, August 2003.
- BEM Systems Inc., *Luong and King Phase II ESA report, C-11 Project Area, February 2003*.
- BEM Systems Inc., *Draft – Soil Assessment and Corrective Action Report for Parcel 311-051, Cell 23*, June 2005.
- BEM Systems Inc., *Draft – Phase I Environmental Site Assessment, 3A/3B Seepage Management Areas and C-9/C-11 Impoundment Areas*, August 2005.
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, White Construction, East Coast Buffer, Weston, Florida*, October 2001.
- CRB Geological & Environmental Services, Inc., *Phase I and II Environmental Site Assessment, Gnarley Gnome Nursery, East Coast Buffer, Weston, Florida*, April 2001.
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, Weekly Property, East Coast Buffer, Weston, Florida*, August 2001.
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, Wilson Property Parcel #201-066, East Coast Buffer, Weston, Florida*, August 2001.
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, Levy Property, North of SW36th Street and East of 202nd Avenue, Broward County, Florida*, August 2001.
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, Binns Property, North of SW36th Street and West of SW 196th Avenue, Broward County, Florida*, August 2001.
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, Bukele Property, North of SW36th Street and West of 208th Avenue, Broward County, Florida*, August 2001.
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, Hayes Property, North of SW36th Street and West of 196th Avenue, Broward County, Florida*, August 2001.
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, Lynmar Ltd. Property, East Coast Buffer, Broward County, Florida*, April 2001.
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, Wilson Property #200-923, East Coast Buffer, Weston, Florida*, August 2001.
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, Sultanoff Property, Located North of Griffin Road and East of U.S. Highway 27, Broward County, Florida*, August 2001.
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, Greenwasser Property, North of SW36th Street and East of 200th Avenue, Broward County, Florida*, April 2001.



- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment and Soil Excavation Report, Dubner Property, South of SW36th Street and West of 196th Avenue, Broward County, Florida, August 2001.*
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, Fripp Property, 3600 SW 200th Avenue, Broward County, Florida, August 2001.*
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, Cowheard Property, North of SW36th Street and West of 196th Avenue, Broward County, Florida, August 2001.*
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, Edwards Property, West of 196th Avenue on S.W. 36th Avenue, Broward County, Florida, August 2001.*
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, Fundefa International Property, North of SW36th Street and West of 196th Avenue, Broward County, Florida, August 2001.*
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, Konstantinou Property, North of SW36th Street and West of 196th Avenue, Broward County, Florida, August 2001.*
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment and Soil Excavation Report, Carol Property, North of Griffin Road and East of U.S. Highway 27, Broward County, Florida, August 2001.*
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, King Property, North of SW36th Street and West of 196th Avenue, Broward County, Florida, August 2001.*
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment and Soil Excavation Report, Daher Property, North of SW36th Street and West of 196th Avenue, Broward County, Florida, August 2001.*
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment and Soil Excavation Report, Manson Property, East Coast Buffer, Weston, Florida, August 2001.*
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, Luong Property, North of SW36th Street and West of 196th Avenue, Broward County, Florida, April 2001.*
- CRB Geological & Environmental Services, Inc., *Phase I and II Environmental Site Assessment, Smith Property, East Coast Buffer, Weston, Florida, June 2001.*
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, Vega Property, North of SW36th Street and West of 196th Avenue, Broward County, Florida, August 2001.*
- CRB Geological & Environmental Services, Inc., *Phase I Environmental Site Assessment, Monarch Lakes Property, North of SW36th Street and West of 202nd Avenue, Broward County, Florida, August 2001.*



- Environmental Consulting & Technology, Inc., *Phase II Environmental Site Assessment Report, Griffin Brothers Property, Tract No. 201-071, Weston, Broward County, Florida*, October 1999.
- Environmental Consulting & Technology, Inc., *Phase I/II Environmental Site Assessment Report, Estates of Swan Lake, Tract No. 201-053, Weston, Broward County, Florida*, October 2000.
- Environmental Consulting & Technology, Inc., *Phase I/II Environmental Site Assessment Report, Pine Venture Property, Tract No. 201-018, Broward County, Florida*, March 2001.
- Foster Wheeler, *Phase I Environmental Site Assessment, East Coast Buffer for Dade, Broward and Palm Beach Counties*, Florida, February 1996.
- Foster Wheeler, *Phase II Environmental Site Assessment, East Coast Buffer for Palm Beach and Broward Counties*, Florida, March 1996.

The conclusions and recommendations provided in these environmental site assessment reports are summarized within the text of this document for the land tracts that were identified as warranting additional assessment or corrective action.

2.3 Historic Aerial Photograph Review

BEM conducted a review of historic aerial photographs obtained from the Broward County Engineering Department and the Dade County Public Works Department. Due to the large acreage (more than 14 square miles) of the project area and the short turn-around time for completion of this summary report, not every available aerial photograph was reviewed by BEM. The dates of the aerial photographs reviewed for this assessment varied depending upon the available coverage of a particular area and observations of the land use activities noted for each land tract.

The aerial photographs were reviewed for indications of past land-use activities on the subject property or on adjacent lands that might indicate the potential use, disposal or storage of hazardous substances or potential areas of property contamination. Observations of significant changes, such as construction activities or changes in vegetation in or near the subject property were noted for each of the reviewed aerial photographs. The aerial photograph review was conducted by utilizing the unique Section, Township and Range identification system as provided on the United States Geological Society (USGS) 7.5-Minute Topographic Maps. A summary of BEM's aerial photograph review for the 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas is presented on **Table 2-1**.

Based upon BEM's historic aerial photograph review, evidence of agriculture use (row crops, landscape foliage, livestock) was identified for 47 of the 407 land tracts (11%) assessed during this evaluation report. Landscape foliage was the predominate type of agriculture use for the region and was conducted on 38 of the 47 tracts that were observed for agriculture use. A majority of the landscape foliage activities commenced in the mid to late 1980's and early



1990's. The landscape foliage activities ceased in the late 1990's and early 2000's when the SFWMD commenced with the acquisition of the land tracts.

Of the remaining nine tracts that were utilized for agriculture purposes, seven of the tracts (Tract 9200-001, Tract 9200-901, Tract 9200-902, Tract 9200-963, Tract 9201-096, Tract 9200-023, and Tract 9311-051) were utilized for livestock and the two remaining tracts (Tract 9201-140 and 9312-026) appeared to be utilized to grow row crops or had some other type of agriculture use. **Table 2-2** provides a summary of the individual land tracts that were identified as conducting agriculture activities based upon the review of historic aerial photographs.

**Table 2-1
Summary of Historic Aerial Photograph Review**

Section	Township	Range	Observations
33	49	39	<p>1963 – The entire portion of the project area located in Section 33 appears as undeveloped marsh. U.S. Highway 27 is visible near the eastern boundary of Section 33. Levee No. 37 and a canal extend in a north-south direction near the western boundary of Section 33. No agriculture activities are observed onsite. Structures associated with a fish camp and equipment storage areas are visible offsite near the northern boundary of Tract 12100-041.</p> <p>1967 – No changes are evident to the site and adjacent properties when compared with the previously reviewed aerial photograph.</p> <p>1969 – The site remains as undeveloped marsh. An east-west trending road has been constructed approximately 250 feet north of Tract 12100-041 and approximately 100 feet north of Tract 12100-040. An unidentifiable structure is visible near the northwest corner of Tract 12100-040. Several canals and borrow pits have been excavated approximately 1,000 feet north and northeast of Tracts 12100-041 and 12100-040.</p> <p>1974 – The site remains as undeveloped marsh. A northwest to southeast trending dirt road has been constructed within Tracts 12100-045, 12100-046, and 12100-078. The dirt road is located along the high voltage electrical transmission line right-of-way. Continued expansion of roads has occurred approximately 1,000 feet northeast of Tracts 12100-041 and 12100-040.</p> <p>1977 – The electrical transmission lines and power poles extend in a northwest-southeast direction along the right-of-way. No other changes are evident when compared with the previously reviewed aerial photograph.</p> <p>1980 – No changes are evident when compared with the previously reviewed aerial photograph.</p> <p>1984 – The site appears unchanged when compared with the previously reviewed aerial photograph. The structures previously observed north of Tract 12100-040 and northeast of Tract 12100-041 have been removed as part of the I-595/U.S. Highway 27 road expansion project. A frontage road extends northwest along the east side of Tracts 12100-049, 12100-005, and 12100-004. The frontage road terminates in the northern section of Tract 12100-082.</p> <p>1987 – No land use changes are evident when compared with the previously reviewed aerial photograph.</p> <p>1990 – No land use changes are evident when compared with the previously reviewed aerial photograph.</p> <p>1995 – No land use changes are evident when compared with the previously reviewed aerial photograph.</p>
34	49	39	<p>1969 – The entire portion of the project area located within Section 34 appears as undeveloped marsh. U.S. Highway 27 extends northwest along the eastern boundary of Tracts 12100-049, 12100-005, 12100-004, and 12100-082. Several structures are visible approximately 200 feet north of Tract 12100-049.</p> <p>1967 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1969 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1974 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1977 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1980 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p>

**Table 2-1
Summary of Historic Aerial Photograph Review**

Section	Township	Range	Observations
			<p>1984 – A northwest-southeast trending frontage road has been constructed along the eastern boundary of Tracts 12100-049, 12100-005, 12100-004, and 12100-052. U.S. Highway 27 has expanded into a four-lane highway.</p> <p>1987 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1990 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1995 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p>
3	50	39	<p>1963 – The portion of the project area located within Section 3 appears as undeveloped marsh. U.S. Highway 27 trends northwest along the eastern boundary of the project area.</p> <p>1967 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1969 - An oval-shaped borrow pit has been excavated on Tract 12100-056. The immediate area surrounding the borrow pit has been cleared. The remaining sections of the site appear unchanged.</p> <p>1974 – A northwest trending dirt road associated with the electrical transmission lines is visible on Tracts 12100-060 and 12100-078.</p> <p>1977 – The electrical transmission lines and power poles are visible within the utility right-of-way. No other changes are evident when compared with the previously reviewed aerial photograph.</p> <p>1980 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1984 – The site appears unchanged when compared with the previously reviewed aerial photograph. U.S. Highway 27 has expanded into a four-lane highway.</p> <p>1987 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1990 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1995 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p>
4	50	39	<p>1963 - The portion of the project area located within Section 4 appears as undeveloped marsh. U.S. Highway 27 is visible approximately 2,000 feet east of the eastern boundary of Section 4. The northwest trending Levee No. 37 is located approximately 500 feet west of the western boundary of Tract 12100-078.</p> <p>1967 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1969 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1974 – A northwest trending dirt road is visible within Tract 12100-078. The road is associated with installation of the electrical transmission lines.</p> <p>1977 – The electrical transmission lines and power poles are visible within Tract 12100-078. No other land use changes are evident when compared with the previously reviewed aerial photograph.</p> <p>1980 – No other land use changes are evident when compared with the previously reviewed aerial photograph.</p> <p>1984 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p>

**Table 2-1
Summary of Historic Aerial Photograph Review**

Section	Township	Range	Observations
			<p>1987 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1990 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1995 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p>
9	50	39	<p>1963 – The portion of the project area located within Section 9 appears as undeveloped marsh. The northwest trending Levee No. 37 is visible approximately 400 feet west of the project area.</p> <p>1967 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1969 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1974 – Northwest trending dirt roads associated with an electrical transmission line right-of-way are visible on Tract 12100-079. Two, rectangular-shaped borrow pits are visible approximately 300 feet east of the southeast corner of Section 9.</p> <p>1977 – Power poles and electrical transmission lines are visible on Tract 12100-079. No other changes are evident when compared with the previously reviewed aerial photograph.</p> <p>1980 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1984 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1987 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1990 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1995 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p>
10	50	39	<p>1963 – The portion of the project area located within Section 10 appears as undeveloped marsh. U.S. Highway 27 trends northwest along the east side of the project boundary.</p> <p>1967 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1969 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1974 – A northwest trending dirt road associated with the electrical transmission line right-of-way is visible on Tract 12100-062. An east-west trending dirt road extends from U.S. Highway 27 to the northwest trending dirt road. A rectangular-shaped borrow pit has been excavated in the southern portion of Tract 12100-062. The immediate area surrounding the borrow pit has been cleared of vegetation. A second rectangular-shaped borrow pit is visible approximately 250 feet south of the southern boundary of Tract 12100-062.</p> <p>1977 – Power poles and electrical transmission lines are visible on Tract 12100-062. No other changes are evident when compared with the previously reviewed aerial photograph.</p> <p>1980 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1984 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p>

**Table 2-1
Summary of Historic Aerial Photograph Review**

Section	Township	Range	Observations
			<p>1987 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1990 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1995 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p>
14	50	39	<p>1963 – The portion of the project area located in Section 14 appears as undeveloped marsh. A north-south trending drainage canal is visible on the east side of Tract 9201-001. An east-west trending drainage canal is visible along the southern boundary of Tract 9201-001.</p> <p>1973 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1980 – A north-south trending drainage canal has been excavated on the western border of Section 14 near Tracts 9200-958 and 9200-952. An east-west trending road extends from U.S. Highway 27 along the southern boundary of Section 14. A large warehouse and an equipment storage yard are visible offsite, approximately 150 feet east of Tract 9201-001. A T-shaped borrow pit is visible on the southern adjacent property of Tract 9201-005 and 9201-001.</p> <p>1984 – A structure has been constructed on the southern section of Tract 9201-018. Tract 9201-018 has been planted with landscape foliage or appears to be utilized for agriculture. A north-south trending road extends from the southern section of the property through the rows of foliage. Three additional structures are visible on the southeast adjacent property of Tract 9201-001. The mining activities have expanded the borrow pit located on the southern adjacent property, south of Tracts 9201-005 and 9201-001.</p> <p>1987 – Mining activities are visible on Tract 9200-951 and a rectangular-shaped borrow pit is visible in the southern section of the tract. A small structure has been constructed on the southern section of Tract 9201-018. Fields of foliage remain visible on Tract 9201-018.</p> <p>1990 – A northwest to southeast trending road extends along the eastern boundary of Tracts 9201-001 and 9201-005. The mining pond located on Tract 9200-951 has expanded. Rows of landscape foliage remain visible on Tract 9201-018.</p> <p>1995 – Mining activities are visible on Tracts 9200-951 and 9200-952. A north-south trending dirt road is located along the northern border of Tracts 9200-950, 9200-951, 9201-018, 9201-011, and 9201-005. Residential development is visible north and east of the project area. A radio tower is visible south of Tract 9201-010.</p>
15	50	39	<p>1963 – The portion of the project area located in Section 15 appears as undeveloped marsh. U.S. Highway 27 extends through the center of Section 15.</p> <p>1974 – The site remains unchanged when compared with the previously reviewed aerial photograph with the exception of the presence of a small borrow pit located in Tract 12100-070 and a square-shaped borrow pit in Tract 12100-032. A north-south trending road associated with electrical transmission lines is visible in Tracts 12100-077 and 12100-070.</p> <p>1980 – An east-west trending drainage canal has expanded along the southern boundary of Tract 9200-959. A north-south trending canal has been excavated along the eastern boundary of Section 15.</p>

**Table 2-1
Summary of Historic Aerial Photograph Review**

Section	Township	Range	Observations
			<p>1987 – U.S. Highway 27 has expanded into a four-lane highway. No other changes are evident when compared with the previously reviewed aerial photograph.</p> <p>1990 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1995 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p>
22	50	39	<p>1963 – The entire project area located in Section 22 appears as undeveloped land. U.S. Highway 27 extends north south through Section 22. Levee No. 37 extends north south along the western boundary of Section 22. An east-west trending drainage ditch extends along the northern boundary of Tract 9200-924. A north-south trending drainage ditch extends through the center of Tract 9200-924. Small east-west trending cross-ditches are visible throughout the east half of Section 22. The cross-ditches appear to be utilized for drainage purposes and not for row crop agriculture use.</p> <p>1976 – A small borrow pit has been excavated on Tract 12101-014. Small unidentifiable structures are visible near the borrow pit in Tract 12101-014. A north-south trending dirt road, power poles, and electrical transmission lines extend through Tracts 12101-083, 12101-017, and 12101-016. The north-south trending canal on Tract 9200-924 has been widened and a north-south trending levee road is visible along the west side of the canal. Cross-ditches remain visible in the eastern half of Section 22. A possible irrigation pump station is visible near Tracts 9200-965 and 9200-923.</p> <p>1977 – The site appears unchanged when compared with the previously reviewed aerial photograph. Five parked vehicles are visible on the east side of the borrow pit located in Tract 12101-014. A road is visible along the southern boundary of Section 22.</p> <p>1980 – The structures and parked vehicles previously observed around the borrow pit in Tract 12101-014 have been removed. Expansion of U.S. Highway 27 is visible through the center of Section 22. An east-west trending drainage canal has been excavated along the northern boundary of Tracts 9200-926 and 9200-923. An east-west trending road extends from U.S. Highway 27 along the northern boundary of Tract 9200-924. The previously observed irrigation pump station is no longer visible near Tract 9200-965.</p> <p>1987 – Dirt trails are visible along the perimeter of the borrow pit located in Tract 12101-014. No other changes are evident when compared with the previously reviewed aerial photograph.</p> <p>1990 – Tracts W9200-908 and 9200-923 have been planted with landscape foliage. The dirt trails located along the perimeter of the borrow pit appear abandoned.</p> <p>1995 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p>
23	50	39	<p>1963 – The entire portion of the project area located in Section 23 appears undeveloped. Large drainage canals are visible along the perimeter of Section 23. A north-south trending ditch is visible through the center of Section 23. Small, east west trending cross ditches are visible on the interior portion of Section 23. The cross ditches appear to be utilized for drainage or improved pasture. No evidence of row crop farming is visible in Section 23.</p> <p>1977 – The entire portion of Section 23 remains undeveloped. An east-west trending road is visible along the southern boundary of Section 23.</p>

**Table 2-1
Summary of Historic Aerial Photograph Review**

Section	Township	Range	Observations
			<p>1980 – A T-shaped borrow pit is visible on Tract 9201-071. Mining activities at the borrow pit are visible on Tract 9201-071. Perimeter drainage canals are visible along the boundary of Tracts 9201-080, 9201-070, and 9201-085. It appears that landscape foliage has been planted on Tracts 9201-080 and 9201-085. The adjacent property located northeast of Tract 9201-071 has been developed and contains a large structure and equipment storage yard. The property located south of Tracts 9201-042, 9201-043, and 9201-058 has been planted with landscape foliage and contains a rectangular-shaped structure.</p> <p>1984 – The borrow pit at Tract 9201-071 has expanded. The east and west halves of Tract 9201-071 has been planted with landscape foliage. In addition, Tracts 9201-063, 9201-062, 9201-059, 9201-072, 9201-076, and 9201-075 have been planted with landscape foliage. Structures are visible on Tracts 9201-063, 9201-080, 9201-075, 9201-076, and 9201-046. A northwest trending airstrip is visible on Tract 9201-053. A borrow pit and unidentifiable structures are visible along the Tract 9201- 053 and Tract 9201-049 boundary.</p> <p>1987 – Tracts 9201-071, 9201-053, 9201-046, 9201-070, 9201-085, 9201-059, 9201-080, 9201-072, 9201-076, 9201-067, 9201-062 and 9201-063 contain landscape foliage. A large area of disturbed soil is visible on the eastern half of Tract 9201-086. The airstrip previously observed on Tract 9201-053 appears abandoned. Structures are visible on Tracts 9201-071, 9201-049, 9201-045, 9201-063, 9201-067, 9201-080, 9201-070, 9201-072, 9201-075, and 9201-076. Large warehouse structures are visible on Tracts 9201-075 and 9201-076.</p> <p>1990 – The northern section of Tract 9201-071 contains landscape foliage. Structures and equipment are visible in the northeast section of Tract 9201-071. The entire portion of Tract 9201-053 appears to contain landscape foliage. Two rectangular-shaped structures are visible on the eastern half of Tract 9201-049. Structures are also visible on the southern half of Tract 9201-058. Tracts 9201-047 and 9201-066 have been planted with landscape foliage. Areas of disturbed soil are visible on Tract 9201-086. Tract 9201-044 has been developed with a transmitter tower.</p> <p>1995 – A large warehouse structure has been constructed near the southeast corner of the borrow pit located in Tract 9201-071. Other unidentifiable structures are visible south of the borrow pit in Tract 9201-071. Two new structures are visible on the eastern boundary of Tract 9201-053. Landscape foliage is visible on Tracts 9201-043, 9201-042, and 9201-058. The structure previously observed on the eastern half of Tract 9201-049 has been removed. A rectangular-shaped structure is visible on Tract 9201-086. Tracts 9201-065 and 9201-046 have been planted with landscape foliage. A structure is visible in a cleared area located in Tract 9201-084. The eastern portion of Tract 9201-087 and the western portion of Tract 9201-084 contain landscape foliage. The western half of Tracts 9201-075 and 9201-076 have been cleared for the Weekley asphalt plant. The eastern portion of Tract 9201-140 is utilized for agriculture. The transmitter tower remains visible at Tract 9201-044.</p>
26	50	39	<p>1969 – The portion of the site located in Section 26 appears as undeveloped, improved pasture. North-south trending drainage canals are visible on Section 26. East west trending cross ditches are visible throughout the area. An east-west trending dirt road is visible along the southern portion of Section 26 and an east-west trending canal is visible along the southern Section boundary.</p> <p>1976 – An east-west trending road is visible along the northern boundary of Section 26. The east-west trending drainage ditches have been re-excavated.</p>

**Table 2-1
Summary of Historic Aerial Photograph Review**

Section	Township	Range	Observations
			<p>1980 – The site appears unchanged when compared with the previously reviewed aerial photograph. Adjacent properties located south of the canal appear to be under construction for residential use.</p> <p>1984 – Tract 9201-096 has been developed. A north-south trending road is visible through the center of the property. The perimeter and interior of the property has been excavated for drainage ditches. Five distinct structures are visible onsite. Several unidentifiable structures are visible in the northern portion of Tract 9201-096. A clearing is visible in the southern section of the site at the end of the north-south trending road.</p> <p>1987 – Tract 9201-096 appears to be utilized for agriculture. Five new structures are visible in Tract 9201-096.</p> <p>1990 – Several structures have been removed from Tract 9201-096. A rectangular-shaped barn has been constructed near the center of the property. A cleared area remains visible near the southern end of the site.</p> <p>1995 – Tract 9201-096 appears overgrown with dense vegetation. The previously observed structures have been removed from the northern section of the site.</p>
27	50	39	<p>1963 – U.S. Highway 27 extends north south through the center of Section 27. The portion of the property located east of U.S. Highway 27 contains east-west trending drainage ditches that are likely utilized for improved pasture. The C-11 canal extends east west along the southern boundary. An unidentifiable structure is visible in the northern section of Tract 12101-032 along the C-11 canal. Two, north-south trending canals are visible along the east and west side of the western portion of Section 27. The western portion of Section 27 appears as undeveloped marsh. Structures are visible offsite near the southwest corner of the property near the present-day SFWMD pump station and at the Everglades Recreation Park.</p> <p>1967 – The site appears unchanged when compared with the previously reviewed aerial photograph. The Seminole-T truck stop is visible in the northeast corner of the U.S. Highway 27 and C-11 canal intersection. Additional structures are visible at the Everglades Recreation Park.</p> <p>1976 – An east-west trending road is visible along the northern boundary of Tract 9200-916. Land clearing activities are visible along the southern portion of Tracts 9201-111, 9201-118, 9201-119, 9201-109, and 9201-110. A clearing is visible in the southern section of Tract 9201-111. A north-south trending power line and access road are visible on Tracts 12101-028 and 12101-031.</p> <p>1978 – Several unidentifiable structures are visible near the southwest corner of the clearing on Tract 9201-111. Parked vehicles and structures remain visible at the adjacent Seminole-T truck stop.</p> <p>1980 – The structures previously observed on Tract 9201-111 have been removed. It appears that clearing of vegetation has occurred east of U.S. Highway 27, along the C-11 canal. The Seminole-T truck stop has expanded to the north and east. Three sets of electrical transmission lines are visible in the utility right-of-way located on the western portion of the property.</p> <p>1984 – Tract 9201-111 has been planted with landscape foliage. A rectangular-shaped structure is visible in the southern portion of Tract 9201-111. U.S. Highway 27 has expended into a four-lane highway. Several structures associated with the Seminole-T truck stop have been removed due to the expansion of U.S. Highway 27. New structures have been constructed at the Seminole-T truck stop property. The remaining portion of the project area appears unchanged when compared with the previously reviewed aerial photograph.</p>

**Table 2-1
Summary of Historic Aerial Photograph Review**

Section	Township	Range	Observations
			<p>1987 – Tracts 9201-109, 9201-110, 9201-124, 9201-128, and the eastern half of Tract 9201-119 have been planted with landscape foliage. A clearing is visible along the southern boundary of Tract 9201-110. No structures are visible in the planted areas of landscape foliage.</p> <p>1990 – Tracts 9201-109, 9201-110, 9201-128, and 9201-119 have been planted with landscape foliage. Structures are visible on Tracts 9201-110, 9201-128, and 9201-119.</p> <p>1995 – The western half of Tract 9201-118 has been planted with landscape foliage. Several structures are visible in the northern section of Tract 9201-118. Additional structures are visible on Tracts 9201-111, 9201-118, 9201-119, and 9201-109. The small structure previously observed near the southeast corner of Tract 9201-128 is no longer visible.</p>
34	50	39	<p>1963 – The western portion of the project area located in Section 34 appears as undeveloped marsh. U.S. Highway 27 extends north south through the center of Section 34. An east-west trending road extends from U.S. Highway 27 along the southern boundary of the C-11 canal. The road extends through Tracts 12101-032, 12101-081, 12101-080, and 12101-031. A structure is visible approximately 300 feet west of Tract 12101-031 at the present day location of the SFWMD C-11 pump station aboveground storage tank farm. Drainage canals are visible near the present day location of Tracts 12101-037, 12101-053, 12101-039, and 12101-038. It cannot be determined from a review of the aerial photograph if the canals are associated with historic agriculture fields or were utilized for drainage of improved pasture.</p> <p>1977 – A north-south trending electrical transmission line and access road are visible in Tracts 12101-031, 12101-075, 12101-076, 12101-077, 12101-061, 12101-078, and 12101-079. No other changes are evident when compared with the previously reviewed aerial photographs.</p> <p>1980 – Three sets of electrical transmission lines are visible through Tracts 12101-031, 12101-075, 12101-076, 12101-077, 12101-061, 12101-078, and 12101-079. No other changes are evident when compared with the previously reviewed aerial photographs.</p> <p>1987 – Griffin Road has extended west from U.S. Highway 27 to the Everglades Park. U.S. Highway 27 has expanded into a four-lane highway. Several structures are visible on Tract 12101-036.</p> <p>1990 – Landscape foliage has been planted on the western half of Tract 12101-036. A clearing extends west from U.S. Highway 27 along the boundary between Tract 12101-068 and 12101-071.</p> <p>1995 – An area of disturbed soil is visible on Tract 12101-067. The clearing previously observed along the boundary between Tracts 12101-068 and 12101-071 has become densely vegetated. An east-west trending road extends from the site to U.S. Highway 27.</p>
3	51	39	<p>1963 – The portion of the project area located in Section 3 appears as undeveloped marsh. U.S. Highway 27 extends north south through the center of Section 3. The north-south trending Levee 33 is visible near the western boundary of Section 3.</p> <p>1967 – The site appears unchanged when compared with the previously reviewed aerial photograph. Three, square-shaped structures are visible offsite, along the western right-of-way of U.S. Highway 27.</p> <p>1969 – The site appears unchanged when compared with the previously reviewed aerial photograph. Two structures remain visible offsite along the western right-of-way of U.S. Highway 27.</p>

**Table 2-1
Summary of Historic Aerial Photograph Review**

Section	Township	Range	Observations
			<p>1974 – A residential home and several unidentifiable structures are visible on Tract 12102-013. An east-west trending road extends west from U.S. Highway 27 along the northern boundary of Tract 12102-020. A square-shaped clearing is visible near the northwest corner of Tract 12102-020. A north-south trending road extends from the square-shaped clearing and extends north through Tracts 12102-010 and 12102-015.</p> <p>1977 – A rectangular-shaped borrow pit is visible in parts of Tracts 12102-020, 12102-021, and 12102-023. An electrical substation is visible on Tract 12102-020. Power poles and electrical transmission lines are visible on Tracts 12102-010, 12102-015, and 12102-020. The residence remains visible on Tract 12102-013.</p> <p>1980 – Two rows of unidentifiable structures are visible along the north side of the rectangular-shaped borrow pit located in Tract 12102-021. Additional equipment is visible in the electrical substation located in Tract 12102-020. Three sets of electrical transmission lines are visible along the north-south trending road that bisects Tracts 12102-010 and 12102-015. The north-south trending road extends south of the electrical substation through Tracts 12102-020 and 12102-022. One set of power poles and electrical transmission lines are visible south of the substation along the north-south trending road.</p> <p>1984 – Borrow pits and canals are visible in the northern section of Tract 12102-011. Two areas of disturbed soil are visible approximately 750 feet north of the rectangular-shaped borrow pit on Tract 12102-020. The expansion of U.S. Highway 27 has occurred along the eastern boundary of the site.</p> <p>1987 – Large areas of cleared land are visible on Tracts 12102-013 and 12102-014. Numerous unidentifiable structures are visible on Tracts 12102-013 and 12102-014. Piles of fill dirt or other materials are visible near the north side of the borrow pit located in Tract 12102-021. The mining activities continue in the northwest portion of Tract 12102-011.</p> <p>1990 – The mining activities appear to have ceased in the northwest portion of Tract 12102-011. The land clearing activities continue on Tracts 12102-013 and 12102-014. The eastern half of Tract 12102-012 has also been cleared. Numerous unidentifiable structures are visible in the cleared areas of Tracts 12102-013 and 12102-012. The piles of fill dirt previously observed near the north side of the rectangular-shaped borrow pit in Tract 12102-021 are no longer visible.</p> <p>1995 – The site appears unchanged when compared with the previously reviewed aerial photograph. The land clearing activities on Tracts 12102-012, 12102-013, and 12102-014 appear to have ceased. The Broward County landfill is visible on the east side of U.S. Highway 27.</p>
10	51	39	<p>1963 – The portion of the project area located within Section 10 appears as undeveloped marsh. The north-south trending U.S. Highway 27 bisects Section 10. Levee 33 extends north south near the western boundary of Section 10.</p> <p>1967 – The site appears unchanged when compared with the previously reviewed aerial photograph. A radio tower is visible offsite, approximately 500 feet southeast of the southeast corner of Tract 12102-030.</p> <p>1969 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p>

**Table 2-1
Summary of Historic Aerial Photograph Review**

Section	Township	Range	Observations
			<p>1974 – A square-shaped clearing is visible in the southern section of Tract 12102-029. A large crane is visible in the cleared area. An east-west trending road extends west from U.S. Highway 27 along the southern boundary of Tract 12102-031. Tract 12102-031 has been cleared and appears to be part of an adjacent mobile home park. An east-west trending canal is visible along the southern boundary of Tracts 12102-030 and 12102-031.</p> <p>1977 – The expansion of borrow pits has occurred on Tracts 12102-029 and 12102-030. No other changes are evident for the site when compared with the previously reviewed aerial photograph.</p> <p>1980 – A north-south trending road and electrical transmission lines are visible on Tracts 12102-028, 12102-026, and 12102-024. No other changes are evident for the site when compared with the previously reviewed aerial photograph.</p> <p>1984 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1987 – Two buildings are visible on Tract 12102-031. The remainder of the site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1990 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1995 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p>
15	51	39	<p>1963 – The portion of the project area located within Section 15 appears as undeveloped marsh. An east-west trending canal is visible along the northern boundary of Tracts 12102-004, 12102-035, and 12102-036. The north-south trending U.S. Highway 27 bisects Section 15. The north-south trending Levee 33 is visible near the western boundary of Section 15.</p> <p>1967 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1969 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1974 – The mobile home trailer park is under construction along the northern boundary of Tract 12102-033 and 12102-004.</p> <p>1977 – A rectangular-shaped clearing is visible in the northwest corner of Section 12102-033. Several dirt roads and clearings are visible on the eastern sections of Tract 12102-033 and 12102-034.</p> <p>1980 – A north-south trending road and electrical transmission line are visible on Tract 12102-035. No other changes are evident when compared with the previously reviewed aerial photograph.</p> <p>1984 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1987 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1990 – A second set of power poles and electrical transmission lines are visible on Tract 12101-035. No other changes are evident when compared with the previously reviewed aerial photograph.</p> <p>1995 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p>

**Table 2-1
Summary of Historic Aerial Photograph Review**

Section	Township	Range	Observations
22	51	39	<p>1963 – The portion of the project area located in Section 22 appears as undeveloped marsh. The north-south trending U.S. Highway 27 bisects Section 22. The north-south trending Levee 33 is visible near the west side of Section 22.</p> <p>1967 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1969 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1974 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1977 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1980 – A north-south trending road and electrical transmission line are visible on Tract 12102-046.</p> <p>1984 – The site appears unchanged when compared with the previously reviewed aerial photograph. U.S. Highway 27 has expanded to a four-lane highway.</p> <p>1987 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1990 – A second set of north south trending electrical transmission lines is visible on Tract 12102-046. No other changes are evident when compared with the previously reviewed aerial photograph.</p> <p>1995 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p>
26	51	39	<p>1963 – The entire project area located in Section 26 appears as undeveloped marsh. A north-south trending canal is visible at the east boundary of Tract 9200-001.</p> <p>1967 – A north-south trending canal is visible at the west boundary of Tract 9200-001. Several trailers are visible at the eastern adjacent property, east of the eastern canal.</p> <p>1969 – An east-west trending canal is visible along the southern boundary of Tract 9200-001. Additional trailers are visible at the eastern adjacent property.</p> <p>1974 – The site appears unchanged when compared with the previously reviewed aerial photograph. A borrow pit has been excavated at the north adjacent property.</p> <p>1977 – An east-west trending canal extends through the center of Tract 9200-001.</p> <p>1980 – The site appears unchanged when compared with the previously reviewed aerial photograph. Two additional borrow pits are visible at the north adjacent property.</p> <p>1984 – A structure is visible at the southeast portion of Tract 9200-001.</p> <p>1987 – A north-south trending dirt road leading to a borrow pit is visible at the eastern portion of Tract 9200-001. In addition, a north-south trending canal extends to the center of Tract W9200-001 and through Tract W9200-929.</p> <p>1990 - No changes are evident when compared with the previously reviewed aerial photographs.</p> <p>1995 - No changes are evident when compared with the previously reviewed aerial photographs.</p>
27	51	39	<p>1963 – The entire portion of the project area located within Section 27 appears as undeveloped marsh. Two, north south trending canals and dirt roads bisect Section 27.</p>

**Table 2-1
Summary of Historic Aerial Photograph Review**

Section	Township	Range	Observations
			<p>1967 – A north-south trending canal is visible at the eastern section of Section 27. No other changes are evident when compared with the previously reviewed aerial photographs.</p> <p>1969 – An east-west trending canal is visible south of Tract 9200-933. No other changes are evident when compared with the previously reviewed aerial photographs.</p> <p>1974 – Several structures are visible at Tract 9200-931. A structure is visible at Tract 9200-933. These two Tracts are located in the northeast portion of Section 27. Several structures are visible at Tract 9200-921, which is located in the middle portion of Section 27. An east-west trending canal is visible at the north portion of Tracts 9200-930 and 9200-935.</p> <p>1976 – No changes are evident when compared with the previously reviewed aerial photographs.</p> <p>1980 – A north-south trending power line is located near the western boundary of Section 27. A new dirt road is visible and extends to the center of Tract 12103-004.</p> <p>1984 – No changes are evident when compared with the previously reviewed aerial photographs.</p> <p>1987 – No changes are evident when compared with the previously reviewed aerial photographs.</p> <p>1990 – A northwest-southeast trending dirt road is visible at Tract W9200-936. No other changes are evident when compared with the previously reviewed aerial photographs.</p> <p>1995 - No changes are evident when compared with the previously reviewed aerial photographs.</p>
34	51	39	<p>1963 – A majority of the portion of the subject property located in Section 34 appears as undeveloped marsh. A square-shaped clearing containing several unidentifiable structures is visible near Tract 9200-922. An irrigation pump station is visible on the east side of the U.S. Highway 27 and C-9 canal intersection. The north-south trending U.S. Highway 27 bisects Section 34. The east-west trending C-9 canal is visible along the southern boundary of Section 34. The north-south trending Levee 33 is visible near the western boundary of Section 34.</p> <p>1967 – No changes are evident when compared with the previously reviewed aerial photograph. A north-south trending canal has been excavated on the eastern boundary of Section 34.</p> <p>1969 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1974 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1977 – An east-west trending dirt road extends west from U.S. Highway 27 along the northern boundary of Tracts 12103-009 and 12103-019. A borrow pit is visible on the south side of the east-west trending dirt road on Tract 12103-019. A perimeter canal has been excavated in Tracts 9200-900, 9200-901, 9200-904, 9200-905, and 9200-906. The square-shaped clearing previously observed on the western adjacent property of Tract 9200-922 appears densely vegetated.</p> <p>1980 – A north-south trending dirt road and electrical transmission line are visible in Tracts 12103-037, 12103-038, 12103-039, and 12103-040. No other changes are evident when compared with the previously reviewed aerial photograph.</p>

**Table 2-1
Summary of Historic Aerial Photograph Review**

Section	Township	Range	Observations
			<p>1984 – The site appears unchanged when compared with the previously reviewed aerial photograph. U.S. Highway 27 has expanded to a four-lane highway.</p> <p>1987 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1990 – A second set of electrical transmission lines are visible in Tracts 12103-037, 12103-038, 12103-039, and 12103-040. Clearing of vegetation and excavation of small drainage canals has occurred on Tracts 9200-901, 9200-900, 9200-904, 9200-905, and 9200-906. A clearing containing several unidentifiable structures is visible in the southeast corner of Tract 9200-901.</p> <p>1995 – The northern portion of Tract 9200-919 appears to contain landscape vegetation. Continued clearing of vegetation and excavation of drainage canals has occurred on Tracts 9200-901, 9200-900, 9200-904, 9200-905, and 9200-906. Structures remain visible in the southeast corner of Tract 9200-901.</p>
35	51	39	<p>1963 – The entire portion of the project area located in Section 35 appears as undeveloped marsh. A north-south trending canal is located at the east boundary of Tract 9200-902. In addition, an east-west trending canal is visible along the southern boundary of Tract 9200-902 and Tract 9200-928.</p> <p>1967 – A north-south trending canal is visible in the west section of Tract 9200-902.</p> <p>1969 – A northwest-southeast trending canal is visible at the northern portion of Tract 9200-902. A north-south trending dirt road extends to the center of Tract 9200-902. Several structures are visible at the southern boundary of Tract 9200-902. In addition, a clearing is visible in the east section of Tract 9200-902.</p> <p>1974 – A cattle pen and a mobile home are visible approximately 600 feet north of the southern boundary of Tract 9200-902. A structure is visible approximately 1,200 feet south of the northern boundary of Tract 9200-902.</p> <p>1977 – Two additional structures are visible in the southern section of Tract 9200-902. An east-west trending canal is visible at the northern portion of Tract 9200-902.</p> <p>1980 – Two additional structures are visible near the cattle pen area at Tract 9200-902. No other changes are evident when compared with the previously reviewed aerial photograph.</p> <p>1984 – Two new structures are visible approximately 600 feet north of the cattle pen located in the southern section of Tract 9200-902. Bails of hay are visible at the southwest portion of Tract 9200-902.</p> <p>1990 - No changes are evident when compared with the previously reviewed aerial photographs.</p> <p>1995 - No changes are evident when compared with the previously reviewed aerial photographs.</p>
3	52	39	<p>1963 – The portion of the project area located in Section 3 appears as undeveloped marsh. The north-south trending U.S. Highway 27 bisects Section 3. Krome Avenue extends southwest from U.S. Highway 27 approximately 2,000 feet south of the C-9 canal.</p> <p>1971 – The site appears unchanged when compared with the previously reviewed aerial photograph. The intersection of U.S. Highway 27 and Krome Avenue has been expanded.</p> <p>1976 – No changes are evident when compared with the previously reviewed aerial photograph.</p>

**Table 2-1
Summary of Historic Aerial Photograph Review**

Section	Township	Range	Observations
			<p>1983 – A north south trending electrical transmission line is visible on Tract 9300-965. Expansion of the U.S. Highway 27 and Krome Avenue intersection is under construction.</p> <p>1986 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1989 – An additional set of electrical transmission lines are visible on Tract 9300-965. No other changes are evident when compared with the previously reviewed aerial photograph.</p> <p>1992 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1997 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p>
9	52	39	<p>1969 – The portion of the project are located in Section 9 appears as undeveloped marsh. Krome Avenue and a canal extend to the northeast along the eastern boundary of the project area. The intersection of Krome Avenue and a northwest trending canal is visible near the northern boundary of Tract 9311-048.</p> <p>1971 – Two rectangular-shaped structures are visible on Tract 9311-049. A southeast trending dirt road extends from Krome Avenue to the structures. Thompson Park is visible along the southern boundary of Tracts 9311-060 and 9311-072.</p> <p>1975 – Structures are visible on Tracts 9311-049 and 9311-051. The remaining areas of the site located in Section 9 appear unchanged when compared with the previously reviewed aerial photograph.</p> <p>1977 – Additional structures have been constructed on Tract 9311-049. A trailer is visible on the western portion of Tract 9311-060. Additional structures remain visible on Tracts 9311-051.</p> <p>1984 – New structures have been constructed on Tract 9311-049. Additional structures previously observed on the property have been removed. Additional construction of structures has occurred on Tracts 9311-051 and 9311-060.</p> <p>1988 – The structures previously observed on Tract 9311-060 have been removed. Two unidentifiable structures remain visible in the western portion of Tract 9311-060. Continued activities are visible on Tracts 9311-049 and 9311-051.</p> <p>1992 – The structures previously observed on Tract 9311-060 are no longer visible. Structures remain visible on Tracts 9311-049 and 9311-051. The remaining areas of the site remain undeveloped.</p> <p>1997 – The structures previously observed on Tract 9311-049 have been renovated as a foliage nursery. The locations of several former buildings are beneath the present-day foliage container areas.</p>
10	52	39	<p>1963 – A rectangular-shaped borrow pit is visible on Tract 9312-011. A northwest to southeast trending canal and levee road is visible along the northern boundary of Tracts 9311-088 and 9311-048. Several structures are visible near the southwest corner of Tract 9312-011 where the northwest trending canal intersects Krome Avenue. U.S. Highway 27 is visible along the eastern boundary of the project area.</p> <p>1971 – Mobile home trailers surround the rectangular-shaped borrow pit located on Tract 9312-011. No other changes are evident when compared with the previously reviewed aerial photograph.</p> <p>1976 – The site appears unchanged when compared with the previously reviewed aerial photograph.</p>

Table 2-1
Summary of Historic Aerial Photograph Review

Section	Township	Range	Observations
			<p>1983 – A northwest to southeast trending road and electrical transmission lines are visible on Tract 9312-007. Road construction along U.S. Highway 27 is visible near the eastern property boundary.</p> <p>1986 – A rectangular-shaped structure is visible on Tract 9312-003. Other unidentifiable structures are visible in the cleared areas of Tract 9312-003. The remaining portion of the property located in Section 10 appears unchanged when compared with the previously reviewed aerial photograph.</p> <p>1988 – A second set of electrical transmission lines were visible on Tract 9312-007. Clearing of vegetation has occurred on Tracts 9312-002, 9312-003, 9312-008, 9312-016, 9312-015, 9312-023, 9312-027, and 9312-028. An east-west trending road extends west from U.S. Highway 27 along the northern boundary of Tracts 9312-018 and 9312-021.</p> <p>1990 – Clearing of vegetation has occurred on Tracts 9312-025 and 9312-024. Evidence of landscape foliage or agriculture use is visible on the western portion of Tract 9312-016. Structures are visible on Tracts 9312-008, 9312-023, and 9312-026.</p> <p>1992 – Tracts 9312-003 and 9312-025 contain structures. Evidence of agriculture use remains visible on Tracts 9312-016 and 9312-023. A rectangular-shaped clearing is visible on the northern half of Tract 9312-018 and a structure is visible in the southeast corner of the clearing.</p>

**Table 2-2
Summary Land Tracts Utilized for Agriculture Based
Upon the Historic Aerial Photograph Review**

Tract Number	Type of Agriculture Use	Section	Township	Range
12101-036	Landscape Foliage	34	50	39
9200-001	Livestock	26	51	39
9200-901	Livestock	34	51	39
9200-902	Livestock	35	51	39
9200-908	Landscape Foliage	22	50	39
9200-919	Landscape Foliage	34	51	39
9200-923	Landscape Foliage	22	50	39
9200-963	Livestock	26	50	39
9201-018	Landscape Foliage	14	50	39
9201-042	Landscape Foliage	23	50	39
9201-043	Landscape Foliage	23	50	39
9201-045	Landscape Foliage	23	50	39
9201-046	Landscape Foliage	23	50	39
9201-047	Landscape Foliage	23	50	39
9201-053	Landscape Foliage	23	50	39
9201-058	Landscape Foliage	23	50	39
9201-059	Landscape Foliage	23	50	39
9201-061	Landscape Foliage	23	50	39
9201-062	Landscape Foliage	23	50	39
9201-063	Landscape Foliage	23	50	39
9201-065	Landscape Foliage	23	50	39
9201-066	Landscape Foliage	23	50	39
9201-067	Landscape Foliage	23	50	39
9201-070	Landscape Foliage	23	50	39
9201-071	Landscape Foliage	23	50	39
9201-072	Landscape Foliage	23	50	39
9201-075	Landscape Foliage	23	50	39
9201-076	Landscape Foliage	23	50	39
9201-080	Landscape Foliage	23	50	39
9201-084	Landscape Foliage	23	50	39
9201-085	Landscape Foliage	23	50	39
9201-087	Landscape Foliage	23	50	39
9201-096	Livestock	26	50	39
9201-109	Landscape Foliage	27	50	39
9201-110	Landscape Foliage	27	50	39
9201-111	Landscape Foliage	27	50	39
9201-118	Landscape Foliage	27	50	39
9201-119	Landscape Foliage	27	50	39
9201-124	Landscape Foliage	27	50	39
9201-128	Landscape Foliage	27	50	39
9201-140	Unknown Agriculture	23	50	39
9311-049	Landscape Foliage	9	52	39
9311-051	Livestock	9	52	39
9311-055	Landscape Foliage	9	52	39
9312-016	Landscape Foliage	10	52	39
9312-023	Livestock	10	52	39
9312-026	Unknown Agriculture	10	52	39



3.0 PHYSICAL SETTING

The following section summarizes the physical setting for the 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas project area.

3.1 Topography

BEM reviewed the USGS 7.5-minute quadrangle maps that included the project area. The USGS quadrangle maps indicate that the land surface of the project area is relatively flat and that ground surface elevations range from +6 to +12 feet above mean sea level (msl). Elevations along the right-of-way for U.S. Highway 27 and Krome Avenue (177th Street or County Road 997) range from +10 to +15 feet msl. It can be inferred that the pre-construction or pre-development regional surface water and shallow groundwater flow directions would generally follow the ground surface elevations and, therefore, flow from east to west, toward the Everglades.

3.2 Soils

Soils comprising the project area were identified using the United States Department of Agriculture Soil Conservation Service surveys for Broward and Dade Counties, Florida. Soils of the study area primarily fall into the classification of Dania muck and Lauderdale muck.

Dania muck is a shallow, nearly level, very poorly drained soil that is encountered in poorly defined drainageways and is located adjacent to deeper organic soils within areas of sawgrass marshes. This soil type contains slopes that are smooth and are less than 2 percent. Typically, the surface layer consists of black muck that is about 15 inches thick. Soft, porous limestone bedrock is usually encountered below this layer of muck. Under natural conditions, Dania muck is usually ponded from 9 to 12 months throughout the year. The water table is typically within 10 inches of the land surface during extended periods of drought. If drained, the organic material initially shrinks to half of its original thickness, then subsides further as a result of compaction and oxidation.

Lauderdale muck is a moderately deep, nearly level, very poorly drained soil that is encountered in narrow drainageways and on broad open areas of sawgrass marshes. This soil type contains slopes that are smooth or concave and are less than 2 percent. Typically, the surface layer consists of black muck that is about 30 inches thick. Hard, porous oolitic limestone bedrock is usually encountered below this layer of muck. Under natural conditions, Lauderdale muck is usually ponded from 9 to 12 months throughout the year. The water table is typically within 10 inches of the land surface during extended periods of drought. If drained, the organic material initially shrinks to half of its original thickness, then subsides further as a result of compaction and oxidation.

3.3 Hydrogeology

The two groundwater aquifers that underlie the project area, are the Biscayne aquifer and the Floridan aquifer.



3.3.1 Biscayne Aquifer

The Biscayne aquifer is unconfined and is the major source of all potable groundwater in Dade County and is comprised chiefly of limestone, sandstone, and sand of marine origin which range in age from (oldest to youngest) late Miocene through Pleistocene. The thickness of the consolidated limestone sections and the permeability of the aquifer as a unit generally decrease towards the northern part of the study area.

Most of the limestone beds in the Biscayne aquifer are capable of yielding large amounts of water. Wells that tap the thick limestone in the deeper part (100-foot depth or more) of the aquifer, commonly yield more than 1,000 gallons per minute. Most of the municipalities in South Florida obtain water from the deeper part of the Biscayne aquifer.

3.3.2 Floridan Aquifer

The Floridan aquifer is artesian in nature and consists of a thick section of carbonate and evaporite rocks underlying all of Florida and parts of Georgia and Alabama. In southeastern Florida the aquifer underlies a thick section of impermeable marl and clay at depths below 900 feet and extends to depth of more than 3,000 feet. It is composed primarily of a system of limestones of varying permeability. The system dips to the east and south and is thought to intersect the ocean bottom several miles offshore along the Continental Slope. The aquifer is under confined conditions except in the recharge area where the overlying confining materials are very thin or absent. The water is highly mineralized, containing more than 1,500 milligrams per liter (mg/L) of chloride and 3,500 mg/L of dissolved solids. It can also contain a high content of sulfur, can be hard, and corrosive. These characteristics greatly limit the use of the water from this aquifer for most purposes.

Nevertheless, study is being directed toward determining the feasibility of using the Floridan aquifer for freshwater storage and as a source of water for desalination in the upper less mineralized zones. Current studies are designed to more accurately define the zonation and hydraulic characteristics of the Floridan aquifer in southeastern Florida.



4.0 REGULATORY REVIEW

This section documents the regulatory review for the 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas project boundary and the surrounding area to supplement the information obtained during BEM's records review.

4.1 Standard Environmental Regulatory Search

BEM contacted EDR, a commercial database service, in order to obtain information maintained by various government agencies. **Appendix B** provides the complete EDR database search. BEM tasked EDR to conduct an area search that encompassed the entire 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas project area. All search distances were extended 1.0 mile from the project boundary. A summary of the environmental database search is provided in the following sections of this report.

4.1.1 National Priorities List

The National Priorities List (NPL), also known as the Superfund List, is a United States Environmental Protection Agency (USEPA) listing of uncontrolled or abandoned hazardous waste sites. The list is primarily based on a score that a site receives from the USEPA's Hazardous Ranking System. These sites are targeted for possible long-term remedial action under the Superfund Act.

A review of the most recent database (28 April 2005) indicated that none of the subject properties were on the NPL. No NPL sites were identified within the 1.0-mile search radius.

4.1.2 Comprehensive Environmental Response, Compensation, and Liability Information System

The Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database is a listing of contaminated sites completed by the USEPA for investigation under the Federal Superfund Program.

A review of the most recent database (15 February 2005) indicated that none of the subject properties were on the CERCLIS database. No CERCLIS facilities were identified within the 1.0-mile search radius.

4.1.3 CERCLIS No Further Remedial Action Planned Site List

The CERCLIS No Further Remedial Action Planned (NFRAP) database is a listing of sites that have been removed from CERCLIS. CERCLIS-NFRAP sites may be sites where, following an initial investigation, no contamination was found or contamination was not serious enough to require Federal Superfund action or NPL consideration.

A review of the most recent database (22 March 2005) indicated that none of the subject properties were on the CERCLIS-NFRAP site list. There were no CERCLIS-NFRAP sites identified within the 1.0-mile search radius.



4.1.4 Emergency Response Notification System

The Emergency Response Notification System (ERNS) is a national computer database that is used to store information on the release of hazardous substances into the environment. The ERNS reporting system contains preliminary information on specific releases, including the spill location, the substance released and the responsible party.

A review of the most recent database (31 December 2004) indicated that none of the subject properties were identified on the ERNS list. However, two facilities were identified on the ERNS list to be located within one-mile of the project area. These ERNS facilities are summarized on **Table 4-1**.

**Table 4-1
 Summary of ERNS Sites Located within the 1.0-Mile Search Radius**

Site	Address
5380 SW 208 th Lane	5380 SW 208 Lane Ft. Lauderdale, FL
Opa Locka Airport	Opa Locka Airport Miami, FL

Based upon information provided in the EDR report, the ERNS incident reported at 5380 SW 208th Lane was for an approximate 10-gallon fuel spill that resulted from a vehicular accident. Information provided in a supplemental report provided by EDR indicated that the impacted media (soil) was removed. No additional investigation is recommended for the ERNS incident reported at 5380 SW 208th Lane.

The ERNS incident reported at the Opa Locka Airport was associated with a release of jet propulsion (JP) fuel in October 1989. The ERNS report indicated that the fuel was discharged onto the surrounding soil and asphalt from an open valve. Sorbent material was utilized to contain the spill area and Dan Mark Corporation was contacted to conduct a cleanup effort. Since a remedial action was conducted to cleanup the spill and based upon the distance of the Opa Locka Airport from the site (greater than one-half mile), it is unlikely that any of the land tracts located within the project area have been environmentally impacted from the incident. The EDR report did not identify any State-registered petroleum storage systems at the Opa Locka Airport. No further investigation is recommended for the ERNS incident reported at the Opa Locka Airport.

4.1.5 Resource Conservation and Recovery Act

4.1.5.1 Treatment, Storage and Disposal Facilities Under Corrective Action

The Resource Conservation and Recovery Information System (RCRIS) report of Treatment, Storage and Disposal (TSD) Facilities under Corrective Action (CORRACTS) facilities contains information pertaining to those facilities that treat, store or dispose of hazardous waste subject to corrective action under Resource Conservation and Recovery Act (RCRA).



A review of the most recent report (29 March 2005) indicated that none of the subject properties were reported as CORRACTS TSD facilities. Additionally, no CORRACTS TSD facilities were identified within the 1.0-mile search radius.

4.1.5.2 RCRIS TSD Facilities

The RCRIS report of TSD facilities contains information pertaining to those facilities that treat, store, or dispose of hazardous waste not currently subject to corrective action under RCRA.

A review of the most recent report (20 May 2005) indicated that none of the subject properties were reported as RCRIS-TSD facilities. Additionally, no RCRIS-TSD facilities were identified within the 1.0-mile search radius.

4.1.5.3 RCRIS-Small Quantity Generator and Large Quantity Generator

The RCRIS report of Small Quantity Generator (SQG) and Large Quantity Generator (LQG) facilities contains information pertaining to those facilities that generate, store, treat, or dispose of hazardous waste as defined by RCRA.

A review of the most recent report (20 May 2005) indicated that no properties were identified as RCRIS LQG facilities. There were no RCRIS LQG facilities identified within the 1.0-mile search radius.

A review of the most recent report (20 May 2005) indicated that three land tracts within the project area and three other offsite properties were identified on the RCRIS-SQG list. A summary of these RCRIS-SQG facilities is provided on the following tables.

**Table 4-2
Summary of RCRIS SQG Facilities Located within the 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas**

Tract Identification Number	Facility Name	Address
9201-086	Smith & Co, Inc.	2601 SW 196 th Ave. Ft. Lauderdale, FL. 33332
9201-086	Smith & Co, Inc.	2540 SW 196 th Ave. Ft. Lauderdale, FL. 33332
9201-072, 9201-075, 9201-076	Weekley Asphalt Paving Inc.	20855 SW 36 th St. Ft. Lauderdale, FL 33332

Information provided in the EDR report indicated that Smith Property (Tract 9201-086) and Weekley Property (Tracts 9201-072, 9201-075, 9201-076) were listed as RCRIS – SQG facilities. According to the EDR report no RCRIS-SQG violations were reported for either facility. However, the Phase I/II Environmental Assessments conducted by BEM in 2002 at these properties, identified onsite areas warranting further assessment. The details of the environmental assessments activities and corrective actions conducted on the Smith and



Weekley properties are provided within the text of this environmental evaluation summary report.

Table 4-3
Summary of RCRIS SQG Facilities Located within the 1.0-Mile Search Radius

Site	Address	Distance from Project Area
Bright Brass & Metal Coating Co.	20911 Johnson St #129 Pembroke Pines, FL. 33029	One-eighth mile east
Blue Haven Cleaner, Inc.	20170 Pines Blvd. Pembroke Pines, FL. 33029	One-mile east
Dyno Nobel Florida Incorporate	4101 SW 196 th Ave. Miramar, FL. 33023	Eastern adjacent property

Information provided in the EDR report indicated that three facilities (Bright Brass & Metal Coating Company, Blue Haven Cleaner, Inc. and Dyno Nobel Florida, Inc.) were listed as a RCRIS – SQG facilities within the 1.0-mile search radius from the property boundary. According to the EDR report, no RCRIS-SQG violations were reported for these facilities. Based upon the distance of the Bright Brass & Metal Coating Co and Blue Haven Cleaner, Inc. facilities from the project area and that no RCRIS-SQG incidents were reported for these facilities, no additional evaluation is recommended regarding the RCRIS-SQG sites.

Dyno Nobel Florida Incorporate is reportedly located along SW196th Avenue, near the boundary of the C-9 Impoundment area. The company conducts mining operations and has excavated large borrow pits east of the site associated with residential development. It is likely that any potential chemical discharges associated with the mining activities would migrate towards the open borrow pit and away from the project area. No additional evaluation is recommended for this RCRIS-SQG facility.

4.1.6 State Hazardous Waste Sites

The State of Florida’s Hazardous Waste Sites (SHWS) list contains a summary of information pertaining to those facilities deemed hazardous by the FDEP and are currently being addressed through State-funded cleanup action.

A review of the most recent listing (10 March 2005) indicated that none of the subject properties were identified on the SHWS database file. Additionally, there were no reported SHWS facilities within the 1.0-mile search radius.

4.1.7 Florida Sites List

The Florida Sites List (SITES) is a report of facilities or locations that have been identified as having known or suspected environmental contamination. The SITES has not been updated since 31 December 1989.





A review of the database indicated that none of the subject properties were identified as a SITES facility. There were no reported SITES facilities located within the 1.0-mile search radius.

4.1.8 Facility Index Systems

The Facility Index System (FINDS) Summary is a report of facility information and pointers to other regulatory sources that contain more information for a specific property. The following databases are reviewed for this report: Permit Compliance System, Aerometric Information Retrieval System, Enforcement Docket, Federal Underground Injection Control, Criminal Docket System, Federal Facilities Information System, State Environmental Laws and Statutes and PCB Activity Data System.

A review of the most recent listing (11 April 2005) indicated that four land tracts within the project boundary were identified as a FINDS sites. In addition, there were 12 FINDS sites identified within the 1.0-mile search radius of the project boundary. A summary of the facilities listed on the FINDS database is provided on **Tables 4-4** and **4-5**.

Table 4-4
Summary of FINDS Sites Located within the 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas

Tract Identification Number	Facility Name	Address
9201-086	Smith & Co, Inc.	2601 SW 196 th Ave. Ft. Lauderdale, FL. 33332
9201-086	Smith & Co, Inc.	2540 SW 196 th Ave. Ft. Lauderdale, FL. 33332
9201-072, 9201-075, 9201-076	Weekley Asphalt Paving Inc.	20855 SW 36 th St. Ft. Lauderdale, FL 33332
No Tract Number Assigned	SFWMD	21939 Griffin Road Ft. Lauderdale, FL 33332

Information provided in the EDR report indicated that the Smith Property (Tract 9201-086) and the Weekley Property (Tracts 9201-072, 9201-075, 9201-076) were listed on the FINDS database as conducting activities of potential environmental concern. BEM's Phase I/II Environmental Assessments conducted at these land tracts in 2002 identified other onsite areas warranting further assessment at each of these land tracts. The details of the environmental assessments activities and corrective actions conducted at the Smith and Weekley properties are provided within the text of this environmental evaluation summary report.



Table 4-5
Summary of FINDS Sites Located within the 1.0-Mile Search Radius

Site	Address	Distance from Project Area
SFWMD	21939 Griffin Road Ft. Lauderdale, FL 33332	500 feet west
Weekley Asphalt Paving, Inc.	20701 Sterling Road Pembroke Pines, FL.	One-half mile east
Continental Home/Chapel Trail	SW 208 th Ave / Sheridan St. Pembroke Pines, FL.	One-half mile east
Bright Brass & Metal Coating Co.	20911 Johnson St #129 Pembroke Pines, FL. 33029	One-eighth mile east
Blue Haven Cleaner, Inc.	20170 Pines Blvd. Pembroke Pines, FL. 33029	One-mile east
Reuter Recycling of Florida	20701 Pembroke Road Pembroke Pines, FL. 33029	One-half mile east
The Shops at Sunset Lakes	SW 184 th Ave & Miramar Miramar, FL. 33027	One-mile east
Dyno Nobel Florida Incorporate	4101 SW 196 th Ave. Miramar, FL. 33023	Eastern adjacent property
Metromix of South Florida Plan	13791 NW 186 th Street Miami, FL. 33015	One-quarter mile east
Florida Rock Industries	13801 NW 186 th St. Miami, FL 33018	One-quarter mile east
Amaralto Concrete Plant 2	13851 NW 186 th St. Miami, FL. 33018	One-quarter mile east
Community Asphalt Corporation	14005NW 186 th St. Miami, FL. 33018	One-quarter mile east

The EDR report indicated that a SFWMD facility (pump station) located at 21939 Griffin Road was identified on the FINDS database to be within the project boundary. A review of GIS maps provided by the SFWMD indicate that this facility is actually located offsite, 500 feet west of the western boundary of Tract 12101-031. Observations of this facility during BEM’s site inspection indicate that the pump station is located down-gradient from the project area and is surrounded by canals. It is BEM’s opinion that any potential environmental impacts that occurred at the pump station would not have migrated onto the project area based upon topography and manmade features (canals).

Based upon the distance of the remaining facilities listed on the FINDS database and the presence of large surface water bodies associated with the mining activities conducted at several of these facilities (Dyno Nobel, Metormix, Florida Rock, Amaralto Concrete and Community



Asphalt), it is unlikely that any potential discharges has environmentally impacted the project land tracts. It is BEM’s opinion that no additional evaluation is warranted for these facilities related to the information provided in the FINDS database.

4.1.9 Solid Waste Facilities List

The Solid Waste Facilities/Landfill List (SWF/LF) is a listing of those Florida facilities that have accepted solid, hazardous, or industrial waste.

A review of the most recent listing (16 May 2005) indicated that none of the subject properties were identified as a SWF/LF facility. There were four SWF/LF facilities identified within the 1.0-mile search radius. **Table 4-6** provides a summary of these offsite SFW/LF Facilities.

**Table 4-6
 Summary of SWF/LF Facilities Located within the 1.0-Mile Search Radius**

Facility Name	Address	Distance from Project Area
Gulfstream Park Racing Association	19500 SW 36 th Street Ft. Lauderdale, FL	Three-quarter miles, east
Broward County Interim Contingency LF	US 27 / Sheridan Street Pembroke Pines, FL. 33332	Eastern adjacent property
USA Waste Systems, Inc.	Pembroke Road/NW 208 Avenue Pembroke Pines, FL	One-half mile, east
Reuter Recycling of Florida	5/8 miles east off Hwy 27 Pembroke Pines, FL	One-half mile, east

Based upon the distance (greater than one-half mile) of the Gulfstream Park Racing Association, the USA Waste System, Inc. and Reuter Recycling of Florida facilities from the project area, it is unlikely that any potential discharges at these facilities has environmentally impacted the land tracts in a manner that would preclude their use for the proposed restoration project. In addition, BEM did not observe evidence in the reviewed documents obtained from the SFWMD, which indicated that known environmental impacts associated with these disposal facilities had migrated to the project boundary.

The Broward County Interim Contingency LF was reported in the EDR report to be located at the intersection of U.S. Highway 27 and Sheridan Road. A review of the GIS maps provided by the SFWMD indicate that this facility is located on the eastside of U.S. Highway 27 and is located closest to Tracts 12102-008, 12102-018, 12102-014, 12102-001, 12102-013 and 12102-011. BEM did not observe any evidence of environmental impacts associated with the Broward County Interim Contingency LF in the records reviewed at the SFWMD office. In addition, BEM contacted Ms. Damaris Lugo with the Broward County Pollution Prevention Division for information pertaining to the current environmental status of the Broward County Interim Contingency landfill. Ms. Lugo indicated that the facility is a permitted Class I landfill although



they accept mostly construction and demolition debris from the County. She indicated that the landfill is required to submit annual groundwater monitoring reports as part of their permit requirements. She is unaware of any groundwater impacts or pollutant discharges at the landfill. A copy of the record of correspondence with Ms. Lugo is provided in **Appendix C**. It is BEM's opinion that the disposal activities conducted at the Broward County Interim Contingency Landfill has not impacted land tracts in a manner that would preclude their future use for the proposed restoration project.

4.1.10 Leaking Underground Storage Tank Database

The Leaking Underground Storage Tank (LUST) database identifies facilities and/or locations that have notified the State of a possible release of contaminants from underground petroleum storage systems.

A review of the most recent listing (04 May 2005) indicated that one of the land tracts within the project area was identified as a LUST site. There were three additional LUST facilities identified within the 1.0-mile search radius. A summary of the LUST information is provided on the following tables.

Table 4-7
Summary of LUST Sites Located within the 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas

Tract Identification Number	Facility	Site Address
9201-086	Smith & Co, Inc.	2601 SW 196 th Ave. Ft. Lauderdale, FL. 33332

According to the EDR report, the Smith property reported a petroleum discharge in December 1999, however there was no documentation which indicated if the discharge actually occurred from an onsite underground or aboveground fuel tank. An interview questionnaire completed by the owner of the property, Mr. Steve Smith, dated 14 June 2002, did not indicate the presence of USTs onsite. In addition, Mr. Smith indicated on the interview form that he was unaware of any petroleum discharges at the site that warrant corrective action. The EDR report and information obtained from FDEP indicate that no underground storage tanks were registered for the Smith property. No Further Action (NFA) status was obtained for the petroleum cleanup activities reported for the Smith property on May 2001 by the FDEP.

It should be noted that BEM's Phase I/II ESA of the Smith property dated 2002, identified other areas of petroleum stained soil that warranted further assessment and corrective action. Mr. Smith has informed the SFWMD that he will retain an environmental consultant to complete the additional assessment activities at the site. Mr. Smith is responsible for providing the FDEP and the SFWMD with reports that document the findings of the additional assessment activities.



Table 4-8
Summary of LUST Sites Located within the 1.0-Mile Search Radius

Facility Name	Address	Distance from Project Area
Seminole T Stop, Inc	4690 US Hwy 27 Ft. Lauderdale, FL. 33332	Adjacent to several parcels
Pembroke Pines City – Holly Lake Pump Station	21800 N. 77 th Manor Pembroke Pines, FL. 33029	Adjacent to several parcels
Sawgrass Recreation Park	5400 US Hwy 27 Ft. Lauderdale, FL. 33332	EDR plotted 500 feet west; actual location is more than 2 miles to the north.

According to the EDR report, three facilities with registered USTs were located within the one-mile search area. Two of these facilities (Seminole T Stop and Pembroke Pines Holly Lake Pump Station) are located adjacent to several land tracts within the project area. A previous assessment report conducted on behalf of the SFWMD at Tract 9201-111 (Levinson Property) located along the north and east boundaries of the Seminole T Stop in August 1999, did not report concentrations of petroleum compounds in the analyzed groundwater samples that warranted corrective action. The EDR report indicated that the petroleum release at the Seminole T Stop occurred in August 1991 and the cleanup efforts are still ongoing. Funding for the cleanup activities is being obtained through the Petroleum Liability and Restoration Insurance Program (PLIRP). **Further investigation (file review, interviews, collection of analytical samples) is warranted to assess if any new releases have occurred at the Seminole T Stop that have impacted Tract 9201-111.**

The EDR report indicated that a petroleum release occurred at the Pembroke Pines – Holly Lake Pump Station, which is located adjacent to Land Tracts 12102-028, 12102-029 and 12102-032. According to information provided in the EDR report, the facility utilizes an 8,000-gallon underground storage tank to provide fuel to the emergency generator. A petroleum discharge was reported at the facility in February 1997. The EDR report indicated that cleanup activities are required at the site, however the cleanup status is listed as inactive. BEM did not identify any environmental assessment reports for Land Tracts 12102-028, 12102-029 and 12102-032 in the SFWMD project files. Based upon the close proximity of the LUST site to the project area and since the project land tracts are located down-gradient from this facility, the potential exists that petroleum impacts have migrated to the project parcels. **Further investigation (file review, interviews, collection of analytical samples) is warranted to assess the potential for impacts from this LUST site.**

The third LUST site was identified as the Sawgrass Recreation Park, which was mapped by EDR as located west of the site along the C-11 canal. BEM’s site inspection actually determined that the Sawgrass Recreation Park is located more than two miles north of the project area.



According to the EDR report, a petroleum discharge was reported at the facility in July 1991. The facility received a site rehabilitation completion order in February 2004 for the petroleum release. Based upon the completion of the corrective actions and the distance of the facility from the project area, it is unlikely that the land tracts have been impacted from the petroleum release at the Sawgrass Recreation Park. No further investigation is warranted for the petroleum release at the Sawgrass Recreation Park.

4.1.11 Underground Storage Tank Database

The FDEP UST database identifies those facilities or locations that have registered underground storage tanks that are regulated under Subtitle I of RCRA and are subject to the requirements found in applicable chapters of the Florida Administrative Code.

A review of the most recent listing (04 May 2005) indicated that none of the land tracts within the project area were listed in the UST database. There were 12 UST facilities identified within the 1.0-mile search radius. Summaries of the 12 UST facilities are provided on **Table 4-9**.

Table 4-9
Summary of UST Sites Located within the 1.0-Mile Search Radius

Facility Name	Address	Distance from Project Area
Everglades Holiday Park	21940 Griffin Road Ft. Lauderdale, FL. 33332	500 feet west
Seminole T Stop, Inc	4690 US Hwy 27 Ft. Lauderdale, FL. 33332	Adjacent to several parcels
Sawgrass Recreation Park	5400 US Hwy 27 Ft. Lauderdale, FL. 33332	EDR plotted 500 feet west, actual location is greater than 2 miles north
Pembroke Pines City – Holly Lake Pump Station	21800 N. 77 th Manor Pembroke Pines, FL.	Adjacent to several parcels
Florida Department of Corrections-Broward	20421 SW 72 nd St. Pembroke Pines, FL.	One-half mile east
Gator Freightways, Inc.	1000 NW 209 th Ave. Pembroke Pines, FL.	One-quarter mile east
AT&T Andytown South	US HWY 27 & Pines Blvd Pembroke Pines, FL.	One-eighth mile east
American Towers	US 27 Hollywood Blvd Hollywood, FL. 33020	200 feet east
Mobile #02-TCX #18523	18495 Miramar PKY Miramar, FL. 33029	One-eighth mile east
Mobile Station #02-TCX	18495 Miramar PKY Miramar, FL. 33029	One-eighth mile east
Continental Florida Materials	13791 NW 186 ST Miami, FL 33018	One-half mile east
Florida Rock Industries	13801 NW 186 ST Miami, FL 33018	One-half mile east
Amaralto Concrete	13851 NW 186 th St. Miami, FL. 33018	One-half mile east
Sawgrass Rock Quarry	14005 NW 186 ST Facility Miami, FL 33018	One-half mile east

Based upon information provided in the EDR report, the Mobile station located at 18495 Miramar Road was listed twice in the UST database and was not identified as a reported LUST



facility. In addition, seven of the UST facilities (Florida Department of Corrections, Gator Freightways, AT & T – Andytown, Central Florida Materials, Florida Rock Industries, Amaralito Concrete and Sawgrass Rock Quarry) were not considered as potential RECs based upon their distance from the site, presence of large surface water bodies adjacent to these facilities, and that no petroleum discharges have been reported for these facilities.

The Everglades Holiday Park is located down gradient of the project area and is not considered likely to have environmentally impacted the nearby land tracts. In addition, the Sawgrass Recreation Area is located more than two miles north of the project area and is therefore unlikely to have environmentally impacted that land tracts.

An environmental assessment was conducted in August 1999 at Tract 9201-111 (Levinson Property), located along the north and east boundaries of the Seminole T Stop. The environmental assessment did not identify reportable concentrations of petroleum compounds in the analyzed groundwater samples which warranted corrective action. The EDR report indicated that the petroleum release at the Seminole T Stop occurred in August 1991 and the cleanup efforts are still ongoing. Funding for the cleanup activities is being obtained through the PLIRP Insurance program. **Further investigation (file review, interviews, collection of analytical samples) is warranted to determine if any new petroleum releases have occurred at the Seminole T Stop that have environmentally impacted Tract 9201-111.**

The EDR report indicated that the American Towers facility is located along U.S. Highway 27 in Hollywood, Florida. The facility formerly utilized two USTs for a diesel emergency generator system. A 1,000-gallon diesel tank was removed from the facility in July 2002 and 4,000-gallon diesel tank was reportedly removed from the facility in December 1990. No petroleum discharges were reported during the closure activities associated with the USTs. Based upon the fact that no petroleum discharges were reported for the American Towers facility, no additional assessment is recommended.

The Pembroke Pines – Holly Lake Pump Station located adjacent to Land Tracts 12102-028, 12102-029 and 12102-032 is listed as a registered UST site. According to information provided in the EDR report, the facility utilizes an 8,000-gallon underground storage tank to provide fuel to the emergency generator. A petroleum discharge was reported at the facility in February 1997. BEM did not identify any environmental assessment reports for Land Tracts 12102-029 and 12102-032 in the files reviewed at the SFWMD. Based upon the close proximity of the LUST site to the project area and since the project land tracts are located down gradient from this facility, the potential exists that the petroleum release migrated to the adjacent parcels. **Further investigation (file review, interviews, collection of analytical samples) is warranted to assess for potential impacts from this UST site.**

4.1.12 Aboveground Storage Tanks

The FDEP Aboveground Storage Tank (AST) database identifies those facilities or locations that have registered aboveground storage tanks. A review of the most recent listing (04 May 2005) indicated that 5 land tracts (three owners) within the project area were identified on the AST database. In addition, there were 13 AST facilities identified within the 1.0-mile search radius. Summaries of these AST facilities are provided on **Tables 4-10 and 4-11.**



Table 4-10
Summary of AST Sites Located within the 3A/3B Seepage Management Areas
and the C-9/C-11 Impoundment Areas

Tract Identification Number	Facility	Site Address
9201-071	Richard A Griffin SR Farms, Inc.	2650 SW 196 th Ave Ft. Lauderdale, FL 33332
9201-086	Smith & Co, Inc.	2601 SW 196 th Ave. Ft. Lauderdale, FL. 33332
9201-072, 9201-075, 9201-076	Weekley Asphalt Paving Inc.	20855 SW 36 th St. Ft. Lauderdale, FL 33332

A Phase I/II ESA was conducted at Tract 9201-071 (Griffin Property) in October 1999. The Phase I/II ESA indicated that corrective action was required in the vicinity of the ASTs located at the irrigation pump stations and at the equipment maintenance shop area. Information provided in the EDR report indicated that the AST utilized at the site was removed from service in November 2002. No files were identified at the SFWMD that documented tank closure activities at the Griffin property. **The closure of the tanks and subsequent corrective actions for Tract 9201-071 require further review to assess for potential impacts.**

The Phase I/II ESA conducted at Tract 9201-086 (Smith property) and at Tracts 9201-072, 9201-075, 9201-076 (Weekley property) noted the presence of petroleum storage tanks and petroleum impacted soil at these facilities. Additional soil and groundwater assessment and tank closure activities were recommended at these land tracts to assess for impacts. No files were identified in the SFWMD records that documented additional soil assessments or tank closure activities were conducted at the Smith and Weekley properties. **The closure of the tanks and subsequent corrective actions require further review to assess for potential impacts to the land tracts.**



Table 4-11
Summary of AST Sites Located within the 1.0-Mile Search Radius

Facility Name	Address	Distance from Project Area
Seminole T Stop, Inc	4690 US Hwy 27 Ft. Lauderdale, FL. 33332	Adjacent to several parcels
Sawgrass Recreation Park	5400 US Hwy 27 Ft. Lauderdale, FL. 33332	Mapped 500 feet west, actual 2 miles north
Florida Department of Corrections-Broward	20421 SW 72 nd St. Pembroke Pines, FL.	One-half mile east
Sunbelt Rentals	21100 Sheridan St. Pembroke Pines, FL.	200 feet east
Gator Freightways, Inc.	1000 NW 209 th Ave. Pembroke Pines, FL.	One-quarter mile east
EPIK Communications	21011 Johnson St. Pembroke Pines, FL	One-mile east
South Fill Inc	300 N. 208 th Ave. Pembroke Pines, FL	One-half mile east
Reuter Recycling of Florida	20701 Pembroke Road Pembroke Pines, FL.	One-half mile east
Dyno Nobel Florida Incorporate	4101 SW 196 th Ave. Miramar, FL. 33023	Eastern adjacent property
Miramar Rock	4104 SW 196 th Ave Miramar, FL 33023	Adjacent property
Continental Florida Materials Miami	13791 NW 186 ST Miami, FL 33018	One-half mile east
Florida Rock Industries	13801 NW 186 ST Miami, FL 33018	One-quarter mile east
SFWMD S-9	21939 Griffin Road Ft. Lauderdale, FL 33332	500 feet west
Pembroke Pines, City-Fuel Station #3	21451 Johnson St. Pembroke Pines, FL	Tract 12102-031
Community Asphalt Corporation	14005NW 186 th St. Miami, FL. 33018	One-quarter mile east

As mentioned in previous sections of this report, the Sawgrass Recreation Park, Florida Department of Corrections, Gator Freightways, Dyno Nobel Florida and Community Asphalt Corporation were not identified to have likely impacted the project area based upon their



distance from the site, the presence of adjacent surface water bodies (rock quarries) and no reported releases occurred at these facilities.

Based upon distance of the facilities from the project area, it is unlikely that the activities conducted at EPIK Communications, South Fill, Inc., Reuter Recycling of Florida, and Continental Florida Materials - Miami have impacted the land tracts that comprise the project area.

The SFWMD S-9 pump station is located approximately 500 feet west of the site in a down-gradient direction near the C-11 canal. Based upon the assumed groundwater gradient (away from the site), it is unlikely that any potential discharges at the SFWMD S-9 pump station have impacted the land tracts.

The EDR report listed Sunbelt Rentals at 21100 Sheridan Street, Pembroke Pines, Florida as an AST site. This address lists the facility near the intersection of Sheridan Street and U.S. Highway 27. The facility is registered as utilizing a 2,000-gallon AST for the storage of diesel. The EDR report did not identify any reported petroleum discharges at the Sunbelt Rental facility. Since no discharges have been reported, it is unlikely that the petroleum products contained in the AST at the Sunbelt Rental facility have impacted the land tracts that comprise the project area.

The Pembroke Pines Fuel Station #3 facility (Tract 12102-031) was listed at 5400 U.S. Highway 27, located along the southeast adjacent boundary to Tract 12102-030. The facility is listed as utilizing a 500-gallon storage tank for the purpose of storing vehicular fuel. The tank was reportedly installed in July 1984 and remains in-service. No discharges of petroleum products have been reported at the facility associated with the AST. Based upon a review of aerial photographs, it appears that a small canal separates this parcel from the project land tracts. GIS maps provided by the SFWMD indicate that this property is actually an out-parcel and is not included within the project area. BEM has assumed that this facility is offsite, however it is recognized as a property that warrants further evaluation. **Based upon the close proximity of this facility to the project boundary, further investigation (file review, interviews, collection of analytical samples) is warranted to assess the potential for impacts from this facility.**

4.1.13 Formerly Used Defense Sites

The Formerly Used Defense Sites (FUDS) listing includes locations of Formerly Used Defense Sites where the US Army Corps of Engineers is actively working or will take necessary cleanup actions. A review of the most recent listing (31 December 2003) indicated that 1 subject property was identified on the FUDS list. In addition, there were five offsite properties identified on the FUDS list within the 1.0-mile search radius. A summary of the information available for these FUD sites is provided in **Table 4-12** and **Table 4-13**.



Table 4-12
Summary of FUD Sites Located within the 3A/3B Seepage Management Areas
and the C-9/C-11 Impoundment Areas

Tract Identification Number	Site	Address
9200-001	Ft. Lauderdale BMBTAR #7	Ft. Lauderdale BMBTAR #7

Based upon information provided in the EDR report, a former FUDS site (Ft. Lauderdale BMBTAR #7) is located within the C-9 impoundment area. The location of the former FUDS site is illustrated to be within the boundary of Tract 9200-001. BEM’s review of historic aerial photographs did not identify the property’s use as a bombing range or other type of FUD site. BEM contact the US Army Corps of Engineers for information pertaining to the historical use of the site and to confirm its designation as a FUD site. According to information provided in the *Archives Search Report for the Former Ft. Lauderdale Bomb Target Site No. 7*, dated March 1996, the land tract was formerly utilized for training by the Naval Air Advance Training Command from August 1944 through January 1947. Historic records indicate that the approximate 640-acre site was utilized to support training exercises for the Miami and Fort Lauderdale Naval Air Stations. The historic documents indicate that a “bulls eye” target was planned for construction at the site although no evidence has been found to support the fact that it was ever constructed. BEM’s review of historic aerial photographs did not identify the presence of a target at the subject property. Furthermore, the archives report indicated that interviews with the formerly land owner, tenant, and the Broward County Sheriff’s Supervisor Detective, did not identify the discovery of ordnance at the site. The field inspection conducted by the US Army Corps of Engineers did not identify the former target or any pieces of ordnance.

The U.S. Army Corps - Jacksonville District has informed BEM that they intend to conduct a site inspection of the property in 2006 to re-evaluate its UXO status. A copy of the information received from the US Army Corps of Engineers is included in **Appendix D**. **It is recommended that the US Army Corps of Engineers be informed of the intended use of the site prior to conducting any earth-moving activities. An unexploded ordnance (UXO) plan should be prepared for the site to address any materials that are encountered during the construction activities.**

Table 4-13
Summary of FUDS Sites Located within the 1.0-Mile Search Radius

Site	Address
Ft. Lauderdale BMBTAR #1	Ft. Lauderdale BMBTAR #1
Ft. Lauderdale BMBTAR #3	Ft. Lauderdale BMBTAR #3
Ft. Lauderdale BMBTAR #5	Ft. Lauderdale BMBTAR #5
Ft. Lauderdale BMBTAR #8	Ft. Lauderdale BMBTAR #8
Ft. Lauderdale BMBTAR #4	Ft. Lauderdale BMBTAR #4



Five additional FUD sites were identified within the one-mile search radius. Several of these FUD sites were previously identified in additional assessment reports prepared for the SFWMD for the C-11 impoundment project. It is unlikely that the activities at these former FUD sites have environmentally impacted the project area. No further investigation is recommended for these offsite FUDS.

4.1.14 Orphan Summary List

This is a listing of facilities within the study area that have been identified on at least one of the environmental regulatory databases, but, due to poor or inaccurate address information, can not be plotted by EDR. A summary of the orphan facilities is provided on **Table 4-14**.

Table 4-14
Summary of Orphan Sites

Site Name	Site Address	City	Zip	Database(s)
FDOT Toll Mp 25	I-75 Alligator Alley MM25	Ft. Lauderdale	33327	AST
Nextel Tower Fl 1646	2001 US27	Ft. Lauderdale	33327	Broward Co. Hm
Gateswell, Atlas-Waste Magic, Agracycle Co	0 Griffin Rd / U S Hwy 27	Ft. Lauderdale	33332	Broward Co. Nov
Delbert D. Bishop	0 Griffin Rd / U S Hwy 27	Ft. Lauderdale	33332	Broward Co. Nov
FDOT I-75 East Toll Plaza	0 I-75 M M 25 / 27 Ave	Ft. Lauderdale	33327	Broward Co. Hm
Commercial Carrier & John Brummitt	0 U S Hwy 27 / I-75	Ft. Lauderdale	33327	Broward Co. Nov
Sam & Juanita Nixon	3800 N U S Hwy 27	Ft. Lauderdale	33332	Broward Co. Nov
Citgo, Seminole T Stop Inc	4690 N U S Hwy 27	Ft. Lauderdale	33332	Ust, Broward Co. Hm
Florida Works Group, Inc.	11111 NW 115 Way	Medley	33178	Miami-Dade Co. IW2-4
Florida Block	8720 NW 91 St	Medley	33178	Miami-Dade Co. AP
Probex Fluids Recovery Inc	10302 NW S River Dr Bay 10	Medley	33178	RCRA-SQG, FINDS
Universal Concrete & Ready Mix Corp	11790 Nw South River Dr	Medley	33178	AST
Ajo Truck Repairs/ Dbal Lauries General W	11350 NW South River Dr Fac. A	Medley	33178	Co. AP Miami-Dade Co. IW2-4, Miami-Dade
Universal Concrete And	11790 NW South River Dr Unit 1	Medley	33178	UST, Miami-Dade Co. IW2-4, Miami-Dade Co. AP
Rouco & Sons, Inc.	12700 NW South River Dr	Medley	33178	UST, Miami-Dade Co. IW2-4
Sunshine Plaza Of S Fl Inc	12200 NW South River Dr	Medley	33178	UST
Sysco Food Services of SF	12500 Sysco Way	Medley	33178	AST
Ranger Construction South	18600 NW 122 Ave	Miami	33178	UST, Miami-Dade Co. IW2-4
Ranger Construction South	18600 NW 122 Ave	Miami	33178	Miami-Dade Co. AP
Delta Dade Tract 55 Mrf	NW 154 St / 97 Ave	Miami	33018	SWF/LF



Pure Beauty Farms Truck Fuel Spill Acid	NW 177th Ave / Hwy 27	Miami	33178	LUST
Giovanni Turano International Design	11115 W Okeechobee Rd Bay	Miami	33018	Miami-Dade Co. AP
South Florida Truck Stop	12200 NW South River Dr	Miami	33178	UST
Rock & Fill Corp	11700 NW South River Dr	Miami	33178	UST, Miami-Dade Co. HWS, Miami-Dade Co. SPILL
Sunset Lakes Lots 9-10	SW 192nd Pl / 40th St	Miramar	33029	LUST
Weekley Asphalt Paving #2	1451 W 185th Ave	Pembroke Pines	33029	AST
Isla Trucking Spill	US Hwy 27 1 Mi South Of Griffin Rd	Pembroke Pines	33332	LUST
Twin Oil Gas Station	0 Sheridan St & Us 27	Pembroke Pines	33029	UST
Pavex Corporation	0 Sheridan St 400'e of US27	Pembroke Pines	33332	BROWARD CO. NOV

During the file review and site inspection, BEM noted whether any of the facilities listed in the orphan summary were identified as part of the project area or located on the adjacent properties. Three of the listed orphan sites were actually identified within the 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas Project Boundary. These orphan sites include the Gateswell Property, Atlas-Waste Magic, Agracycle Co. (formerly Sam & Juanita Nixon Property) - Tract 12102-012 and the Delbert D. Bishop Property - Tract 12102-013 which are located within Section 3, Township 51 South, and Range 39 East. Based upon previous environmental assessments conducted on behalf of the SFWMD, these properties and properties located adjacent to these parcels require recommended corrective action due to illegal debris disposal activities.

None of the other listed orphan sites were identified as potential concerns based upon the partial address information provided in the EDR report and observations of these facilities during the site inspection. No additional investigation is recommended for these remaining orphan facilities.



5.0 SITE INSPECTION

This section presents the findings of BEM's aerial inspection and limited windshield survey conducted on 22 July 2005. Chris Pisarri of BEM conducted an aerial inspection of the 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas by use of a helicopter cruising at an altitude of approximately 200 to 500 feet. Inspection of the 407 land tracts that comprise the 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas solely by "ground-truthing" was not deemed feasible the SFWMD from a time and expense standpoint. The helicopter was utilized to inspect the land tracts located within 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas that were not accessible by vehicle or where right of entry agreements had not been granted by the current property owner. A map that illustrates the inspection route of BEM's 22 July 2005 aerial site inspection is provided as **Figure 5-1**. A photograph log is provided in **Appendix E**.

In addition, BEM conducted a limited windshield survey of the project area and adjacent properties to confirm the locations of facilities with reported activities of environmental concern as identified in the EDR report. The windshield survey was also conducted to identify the locations of any orphan sites within the project area. The windshield survey was conducted to confirm the findings of the aerial photograph review and further evaluate the characteristics of several land tracts identified during BEM's aerial inspection. The windshield survey was conducted from public roads and right-of-ways since the individual property owners did not grant access for an interior inspection of the land tracts.

It should be noted that the aerial photograph review, aerial inspection and limited windshield survey may not have identified each debris disposal area on the 407 land tracts and that a thorough site inspection by "ground truthing" could identify additional onsite areas of debris that may warrant removal or corrective action.

5.1 Land Tracts Identified with Historic or Current Agriculture Use

Based upon observations during the aerial inspection and limited windshield survey, BEM identified 47 land tracts (approximately 11%) with current or historic land use activities associated with agriculture use. The agriculture activities noted for the land tracts consisted of the establishment of landscape foliage, livestock, and general agriculture use. **Table 5-1** provides a summary of the land tracts that were identified as conducting activities associated with agriculture land use. **Figure 5-2** illustrates the locations of the properties that were utilized for agriculture.

**Table 5-1
Summary Land Tracts Utilized for Agriculture**

Tract Number	Type of Agriculture Use	Section	Township	Range
12101-036	Landscape Foliage	34	50	39
9200-001	Livestock	26	51	39
9200-901	Livestock	34	51	39
9200-902	Livestock	35	51	39
9200-908	Landscape Foliage	22	50	39
9200-919	Landscape Foliage	34	51	39
9200-923	Landscape Foliage	22	50	39
9200-963	Livestock	26	50	39
9201-018	Landscape Foliage	14	50	39
9201-042	Landscape Foliage	23	50	39
9201-043	Landscape Foliage	23	50	39
9201-045	Landscape Foliage	23	50	39
9201-046	Landscape Foliage	23	50	39
9201-047	Landscape Foliage	23	50	39
9201-053	Landscape Foliage	23	50	39
9201-058	Landscape Foliage	23	50	39
9201-059	Landscape Foliage	23	50	39
9201-061	Landscape Foliage	23	50	39
9201-062	Landscape Foliage	23	50	39
9201-063	Landscape Foliage	23	50	39
9201-065	Landscape Foliage	23	50	39
9201-066	Landscape Foliage	23	50	39
9201-067	Landscape Foliage	23	50	39
9201-070	Landscape Foliage	23	50	39
9201-071	Landscape Foliage	23	50	39
9201-072	Landscape Foliage	23	50	39
9201-075	Landscape Foliage	23	50	39
9201-076	Landscape Foliage	23	50	39
9201-080	Landscape Foliage	23	50	39
9201-084	Landscape Foliage	23	50	39
9201-085	Landscape Foliage	23	50	39
9201-087	Landscape Foliage	23	50	39
9201-096	Livestock	26	50	39
9201-109	Landscape Foliage	27	50	39
9201-110	Landscape Foliage	27	50	39
9201-111	Landscape Foliage	27	50	39
9201-118	Landscape Foliage	27	50	39
9201-119	Landscape Foliage	27	50	39
9201-124	Landscape Foliage	27	50	39
9201-128	Landscape Foliage	27	50	39
9201-140	Unknown Agriculture	23	50	39
9311-049	Landscape Foliage	9	52	39
9311-051	Livestock	9	52	39
9311-055	Landscape Foliage From Tract 9311-049 onsite	9	52	39
9312-016	Landscape Foliage	10	52	39
9312-023	Livestock	10	52	39
9312-026	Unknown Agriculture	10	52	39

**Table 5-2
Summary Land Tracts Utilized for Commercial, Industrial, & Residential Use**

Tract Number	Type of Land Use	Section	Township	Range
9300-965	Electric Transmission Lines	3	52	39
12100-032	Borrow Pit	15	50	39
12100-045	Electric Transmission Lines	33	49	39
12100-046	Electric Transmission Lines	33	49	39
12100-056	Borrow Pit	3	50	39
12100-078	Electric Transmission Lines	4	50	39
12100-060	Electric Transmission Lines	3 & 4	50	39
12100-079	Electric Transmission Lines	9	50	39
12100-062	Electric Transmission Lines/Borrow Pit	10	50	39
12100-070	Electric Transmission Lines/Borrow Pit	15	50	39
12100-077	Electric Transmission Lines	15	50	39
12101-014	Borrow Pit	22	50	39
12101-083	Electric Transmission Lines	22	50	39
12101-017	Electric Transmission Lines	22	50	39
12101-016	Electric Transmission Lines	22	50	39
12101-028	Electric Transmission Lines	27	50	39
12101-074	Residential	34	50	39
12101-031	Electric Transmission Lines	27	50	39
12101-075	Electric Transmission Lines	34	50	39
12101-076	Electric Transmission Lines	34	50	39
12101-077	Electric Transmission Lines	34	50	39
12101-061	Electric Transmission Lines	34	50	39
12101-067	Residential	34	50	39
12101-078	Electric Transmission Lines	34	50	39
12101-079	Electric Transmission Lines	34	50	39
12102-010	Electric Transmission Lines	3	51	39
12102-015	Electric Transmission Lines	3	51	39
12102-021	Borrow Pit	3	51	39
12102-022	Electric Transmission Lines	3	51	39
12102-023	Borrow Pit	3	51	39
12102-024	Electric Transmission Lines	10	51	39
12102-026	Electric Transmission Lines	10	51	39
12102-028	Electric Transmission Lines	10	51	39
12102-029	Borrow Pit	10	51	39
12102-030	Borrow Pit	10	51	39
12102-032	Electric Transmission Lines	15	51	39
12102-035	Electric Transmission Lines	15	51	39
12102-046	Electric Transmission Lines	22	51	39
12103-019	Borrow Pit	34	51	39
12103-032	Electric Transmission Lines	27	51	39
12103-033	Electric Transmission Lines	27	51	39
12103-034	Electric Transmission Lines	27	51	39
12103-035	Electric Transmission Lines	27	51	39
12103-036	Electric Transmission Lines	27	51	39
12103-037	Electric Transmission Lines	34	51	39
12103-038	Electric Transmission Lines	34	51	39
12103-039	Electric Transmission Lines	34	51	39

**Table 5-2
Summary Land Tracts Utilized for Commercial, Industrial, & Residential Use**

Tract Number	Type of Land Use	Section	Township	Range
12103-040	Electric Transmission Lines	34	51	39
9200-931	Residential	27	51	39
9200-932	Residential	27	51	39
9200-933	Residential	27	51	39
9200-951	Borrow pit/equipment storage yard	14	50	39
9200-952	Borrow pit/equipment storage yard	14	50	39
9201-067	Residential	23	50	39
9201-071	Equipment storage yard	23	50	39
9201-072	Equipment storage yard	23	50	39
9201-075	Asphalt plant/equipment storage yard	23	50	39
9201-076	Asphalt plant/equipment storage yard	23	50	39
9201-080	Borrow Pit/equipment storage yard	23	50	39
9201-086	Equipment Storage yard	23	50	39
9311-059	Residential/Commercial	9	52	39
9311-060	Residential	9	52	39
9311-086	Electric Transmission Line	10	52	39
9311-946	Electric Transmission Line	3	52	39
9312-003	Commercial	10	52	39
9312-007	Electric Transmission Line	10	52	39
9312-008	Residential	10	52	39
9312-010	Trailer Park	10	52	39
9312-016	Commercial	10	52	39
9312-023	Commercial	10	52	39
9312-025	Commercial	10	52	39



Observations of these land tracts identified the establishment of foliage oriented in rows at these properties. The foliage activities appear to have ceased at a majority of the sites.

Previous environmental site assessments, completed on behalf of the SFWMD, were conducted to evaluate the concentration of residual pesticides and metals associated with the agriculture activities prior to acquisition by the SFWMD. The findings and conclusions of these assessments has indicated that 24 of the 47 land tracts that were classified for agriculture use did not report analyzed agrochemicals or metals in concentrations that warranted additional assessment or corrective action.

5.2 Land Tracts Identified with Commercial, Industrial & Residential Land Use

Based upon observations of the project area during the aerial photograph review, the aerial inspection, and limited windshield survey, BEM noted that 71 of the 407 land tracts (approximately 17%) were currently or formerly utilized for commercial, industrial or residential use. A land tract that was observed to contain only landscape foliage was not classified as a commercial, industrial, or residential property. **Table 5-2** provides a summary of the land tracts that were identified during the site inspection as utilized for commercial, industrial or residential use. **Figure 5-3** illustrates the land tracts that were identified for commercial, industrial or residential land use.

Observations of these land tracts noted that 49 of the 71 parcels are located within the right of way of the electrical transmission line or consist of abandoned borrow pits associated with the construction of U.S. Highway 27. These 49 land tracts do not warrant further assessment or corrective action since no evidence of chemical storage, use or disposal was observed at these land tracts. These 49 land tracts currently meet the requirements for their future landuse.

Eleven of the remaining 22 land tracts were noted as consisting of developed parcels containing residential homes. No other landuse activities were observed for these eleven land tracts other than their use for residential purposes. Surveys for asbestos materials and abandonment of any septic systems are necessary at these land tracts prior to demolition of the onsite structures.

The eleven remaining land tracts were classified for general commercial use or were utilized as equipment/machinery storage areas. These 11 land tracts are currently vacant, however abandoned structures and equipment storage yards remain onsite. Based upon the commercial use of these sites, several land tracts were identified as warranting additional assessment.

The land tracts that were identified as commercial, industrial or residential land use that require additional assessment or corrective action are discussed in further detail in Sections 6 & 7. Land Tracts Utilized for Other Miscellaneous Land Use

Based upon observations of the project area during the aerial inspection and limited windshield survey, BEM identified seven land tracts that were utilized for other types of miscellaneous land use that were not identified in Sections 5.1 and 5.2.

Three of the seven land tracts (Tract 12102-012, Tract 12102-013, Tract 12102-014) are associated with an illegal landfill operation located in Section 3, Township 51 South, Range 39 East. Storage tanks are currently located onsite at Tract 12102-031 and Tract 9200-930. The use



of the storage tank on Tract 9200-930 is unknown. Tract 12102-921 is a former automotive parts/repair yard that was recently a Buddhist temple. Tract 9200-001 was formerly utilized as a training site for local naval air defense stations. The actual use of the site for training purposes and the use of ordnance on the property has not been confirmed. **Table 5-3** provides a summary of the land tracts that were utilized for other miscellaneous land use purposes.

Table 5-3
Summary Land Tracts Utilized for Other Miscellaneous Land Use

Tract Number	Type of Land Use	Section	Township	Range
12102-012	Debris Disposal Site	3	51	39
12102-013	Debris Disposal Site	3	51	39
12102-014	Debris Disposal Site	3	51	39
9200-921	Former Automotive Parts/Repair Yard	27	51	39
9200-930	Unknown AST	27	51	39
9200-001	FUD Site	26	51	39
12102-031	Fuel Storage	10	51	39

Tracts 12102-012, 12102-013 and 12102-014 are associated with an illegal landfill operation that has been backfilled with vegetation, construction debris and metal machinery. The northwest portion of the site is also utilized as a target range for small caliber firearms. Previous assessments conducted by ECT have identified elevated concentrations of petroleum and metals in the soil and groundwater. A site survey and digital terrain model were utilized to quantify the actual amount of debris located at the site. The estimated amount of discarded material present on the land tracts is estimated to be between 120,000 and 210,00 cubic yards. Engineering controls may be implemented at these land tracts to isolate the impacted area from the remaining portion of the project area as a cost-effective alternative to removal and disposal of the existing debris. Corrective measure costs for these land tracts have been estimated to be as high as 10 million dollars with a majority of the costs associated with disposal of the debris and tipping fees.

Tract 9200-921 was developed in the early 1970's and was reportedly utilized as an automotive repair shop and tow truck operation through the mid-1990's. Previous assessments conducted at the site identified large quantities of debris, including: furniture, automotive parts, tires, abandoned automobiles and household trash. In addition, debris, such as: tires, metal and automotive parts, was also observed in the fill material present at the site. Subsequent soil assessments did not identify areas of impacted soil that required corrective action. The western portion of the site is located within the U.S. Highway 27 right-of-way. Based upon a review of historic aerial photographs, this area was identified as containing historic structures that were razed during the road-widening project for U.S. Highway 27. A groundwater sample collected from a monitoring well that was installed on the interior of the site during a Phase II ESA, reported benzene above its respective Florida Department of Environmental Protection (FDEP)



Groundwater Cleanup Target Level (GCTL) of 1.0 parts per billion (ppb). Recent demolition activities conducted by the SFWMD have likely destroyed the groundwater monitoring well.

Tract 9200-001 was reportedly a FUD site utilized by the Naval Air Advance Training Command from August 1944 through January 1947. BEM's review of historic aerial photographs did not identify the presence of a bombing target at the subject property. Furthermore, the archives report prepared by the U.S. Army Corps of Engineers indicated that interviews with the former land owner, the former tenant, and the Broward County Sheriff's Supervisor Detective have not reported any discoveries of ordnance at the site. The field assessment conducted by the U.S. Army Corps did not identify evidence of ordnance. The U.S. Army Corps – Jacksonville District, informed BEM that they will conduct a site inspection in 2006 to re-evaluate the UXO status of the site.

Tract 9200-930 is currently undeveloped forest that was possibly utilized for previous residential use. During the aerial site inspection, an AST was observed within the interior of the property. The dirt trail that extended to the interior of the property was flooded and therefore, the site could not be "ground-truthed". The type of AST and the contents within the AST are unknown.

Tract 12102-031 contains a warehouse building that appears to be associated with a residential trailer park and is located adjacent to Tract 12102-030. Petroleum storage tanks were observed on this property, however the property boundaries were not clearly defined during the site inspection. According to maps provided by the SFWMD it appears that this property is an out-parcel, however the property's identification number is listed within the proposed acquisition area.

5.3 Septic Systems

As requested by the SFWMD Land Management Department, BEM noted the land tracts suspected of utilizing septic systems for sanitary waste disposal. The land tracts identified as utilizing septic systems were noted during the completion of previous assessments and internal SFWMD site inspection memorandums. According to the reviewed information, 40 of the 407 land tracts (approximately 10%) were suspected as utilizing septic systems for sanitary waste disposal. **Table 5-4** summarizes the land tracts that were noted as utilizing septic systems. **Figure 5-4** illustrates the locations of the 40 land tracts that were identified as utilizing septic systems. BEM has been informed by the SFWMD that the septic systems will be properly abandoned prior to implementation of the construction activities and that some of the septic systems have already been properly abandoned for these land tracts.

**Table 5-4
Summary Land Tracts Utilizing Septic Systems**

Tract Number	Section	Township	Range
12101-036	34	50	39
12101-067	34	50	39
12101-074	34	50	39
12102-013	3	51	39
W9200-921	27	51	39
W9200-923	27	51	39
W9200-931	27	51	39
W9200-932	27	51	39
W9200-933	27	51	39
W9200-951	14	50	39
W9201-045	23	50	39
W9201-047	23	50	39
W9201-049	23	50	39
W9201-053	23	50	39
W9201-058	23	50	39
W9201-062	23	50	39
W9201-063	23	50	39
W9201-066	23	50	39
W9201-067	23	50	39
W9201-071	23	50	39
W9201-072	23	50	39
W9201-080	23	50	39
W9201-085	23	50	39
W9201-096	26	50	39
W9201-110	27	50	39
W9201-111	27	50	39
W9201-118	27	50	39
W9201-119	27	50	39
W9201-124	27	50	39
W9311-049	9	52	39
W9311-051	9	52	39
W9311-059	9	52	39
W9311-060	9	52	39
W9312-003	10	52	39
W9312-008	10	52	39
W9312-010		52	39
Encroachment from W9312-011	10		
W9312-012	10	52	39
W9312-016	10	52	39
W9312-023	10	52	39
W9312-025	10	52	39



5.4 Debris Disposal Areas

The land tracts that were identified as containing large quantities of debris were noted during the aerial site inspection and windshield survey. This list does not include land tracts where only abandon buildings exist, since the SFWMD will be razing and disposing of these structures prior to construction of the restoration project. The debris included: household trash, tires, abandoned boats, metal machinery, concrete, appliances, and other types of construction debris. A summary of the land tracts that were identified as containing areas of debris is provided on **Table 5-5**. It is possible that some areas of debris disposal were not identified during the aerial inspection that may warrant corrective action.

**Table 5-5
Summary Land Tracts with Identified Areas of Debris Disposal**

Tract Number	Observed Materials	Location
9312-018	200 to 300 used tires observed	Near canal and interior of site
12100-049	Household trash, construction debris	Along frontage road
12100-005	Household trash, construction debris	Along frontage road
12100-004	Household trash, construction debris	Along frontage road
12100-082	Household trash, construction debris	Along frontage road
9312-026	Metal, plastic, household trash	Along levee road
9312-007	Metal, plastic, household trash	Along levee road
9312-012	Metal, plastic, household trash	Along levee road
9312-021	Metal, plastic, household trash	Along levee road
9201-096	Metal, plastic, automotive parts	South end of property
9200-921	Boat, metal, construction debris	Near U.S. Highway 27
12102-028	Household trash	North of Trailer Park
12102-029	Household trash	North of Trailer Park
12102-030	Household trash	North of Trailer Park
12102-032	Household trash	South of Trailer Park
12102-035	Household trash	South of Trailer Park
12102-033	Household trash	South of Trailer Park
12102-034	Household trash	South of Trailer Park
12102-012	Construction debris, unknown	Interior of property, west of U.S.27
12102-013	Construction debris	Interior of property, west of U.S.27
12102-014	Construction debris	Interior of property, west of U.S.27
Weekley Tracts	Asphalt, concrete, metal	Interior of property
C9/C-11 Impoundment Areas	Household trash, construction debris	Along road right-of-ways



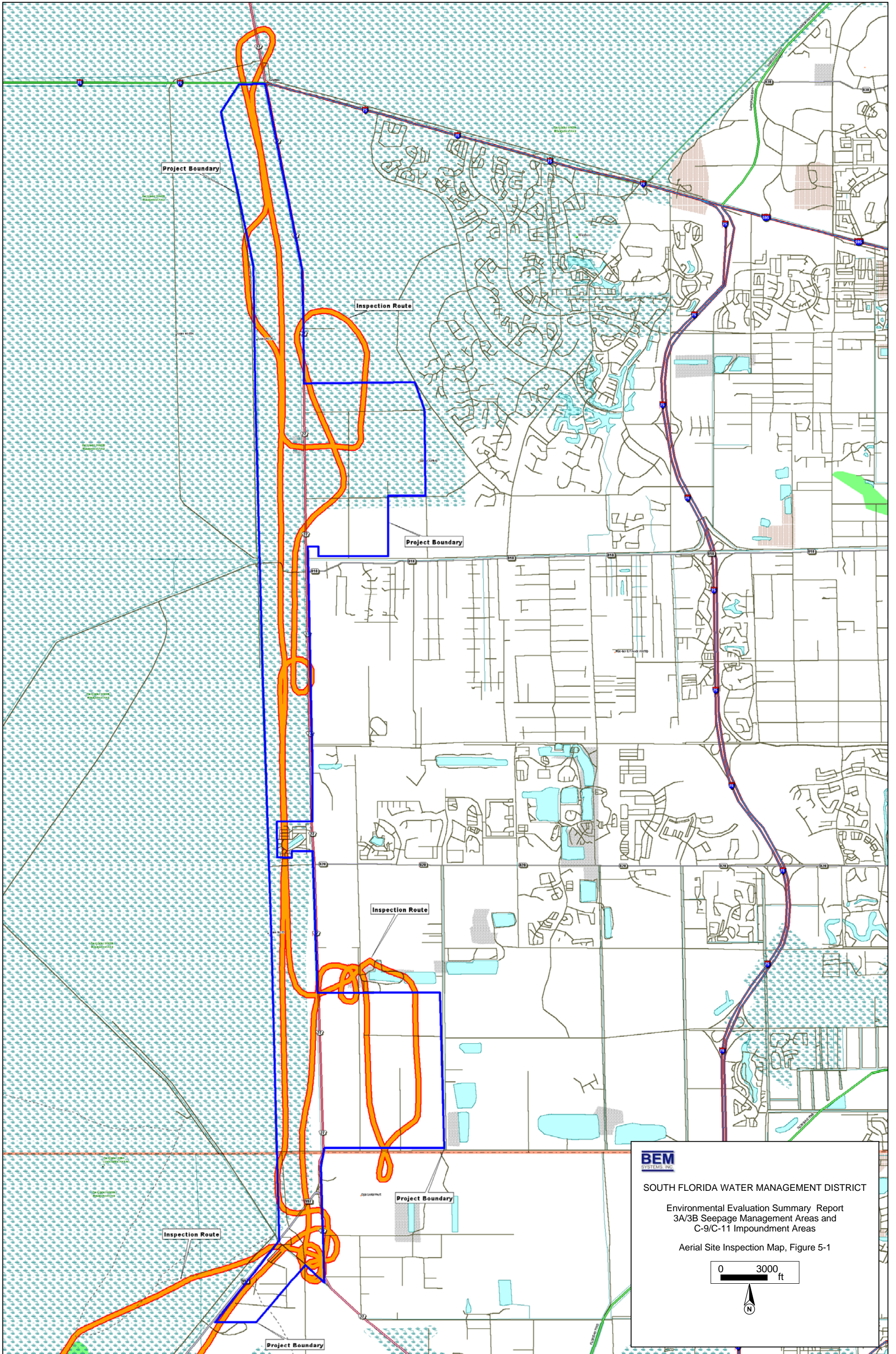
5.5 Other Recognized Environmental Conditions

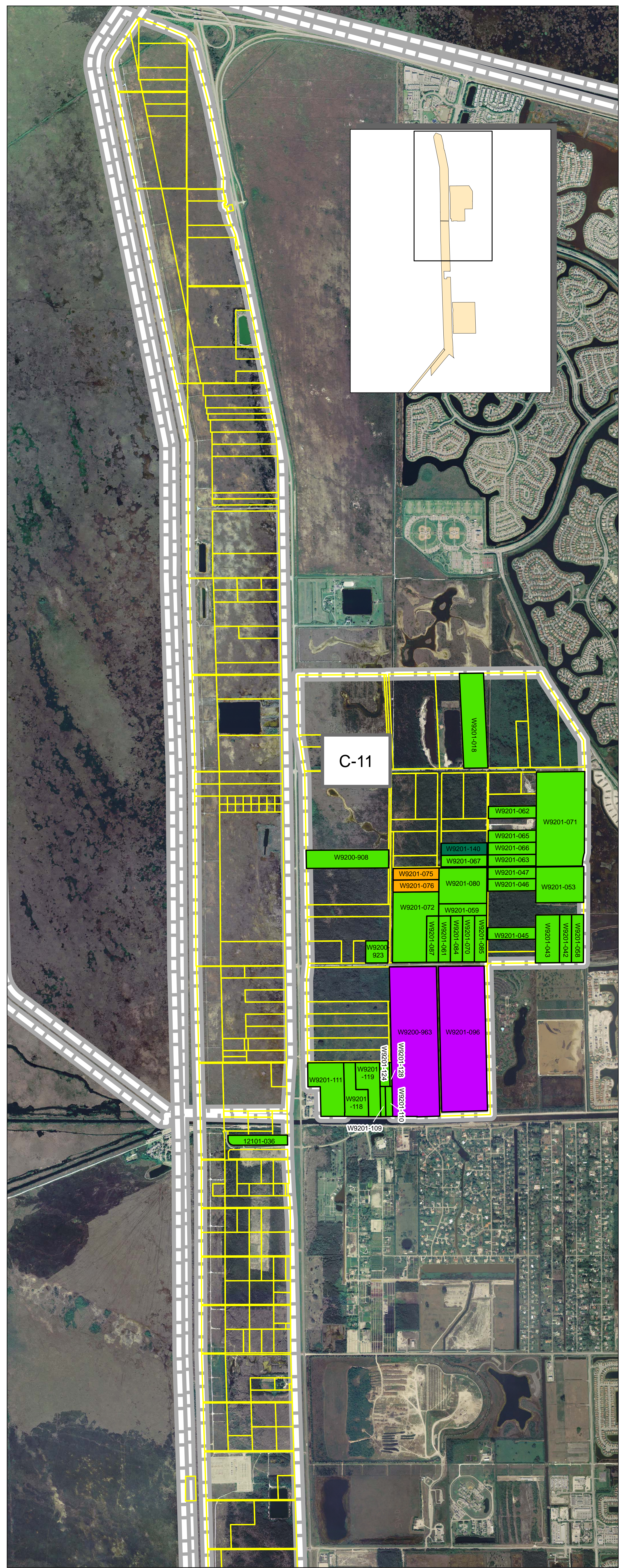
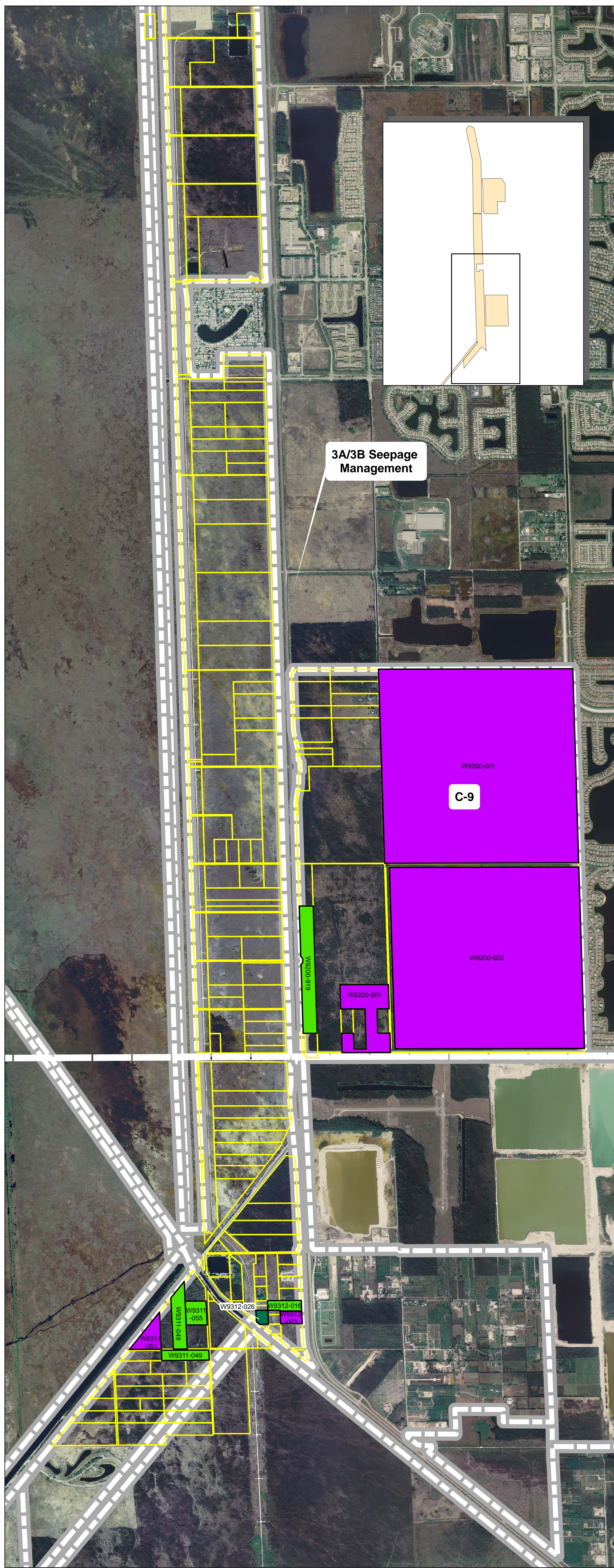
No evidence of the following RECs were observed within the 3A/3B Seepage Management Areas & C-9/C-11 Impoundments during the aerial inspection and windshield survey:

- Cattle dip vats
- Chemical holding ponds
- Airstrips for crop dusting
- Municipal waste or industrial sludge disposal activities
- Retail petroleum facilities

5.6 Adjacent Property Observations

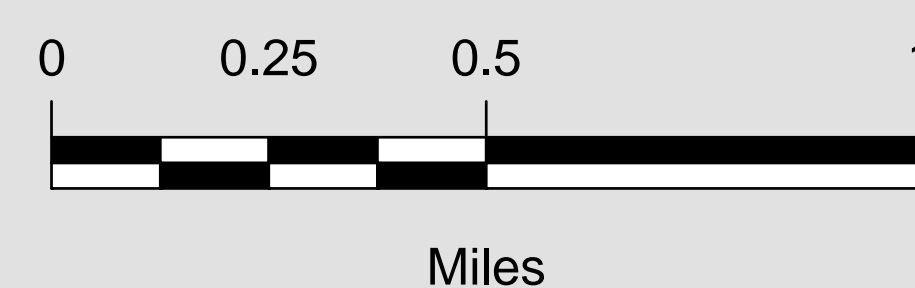
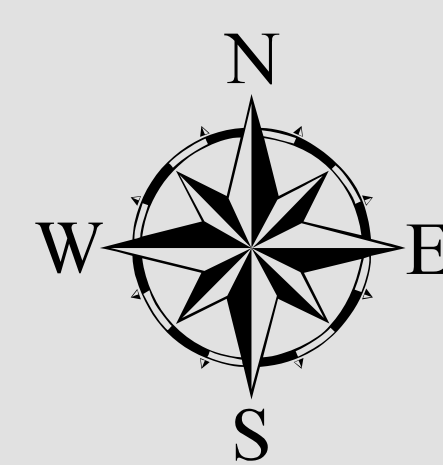
The adjacent properties were observed while conducting the aerial inspection and windshield survey. The western adjacent property consist predominately of undeveloped, flooded marsh associated with the Everglades Management Area. The eastern adjacent properties consist of high-density residential developments and industrial activities including mining, asphalt production and sanitary waste disposal facilities. The southern adjacent properties consist predominately of undeveloped marsh and residential homes. The northern adjacent property consist of the east-west trending I-595 Highway and undeveloped, flooded marsh.





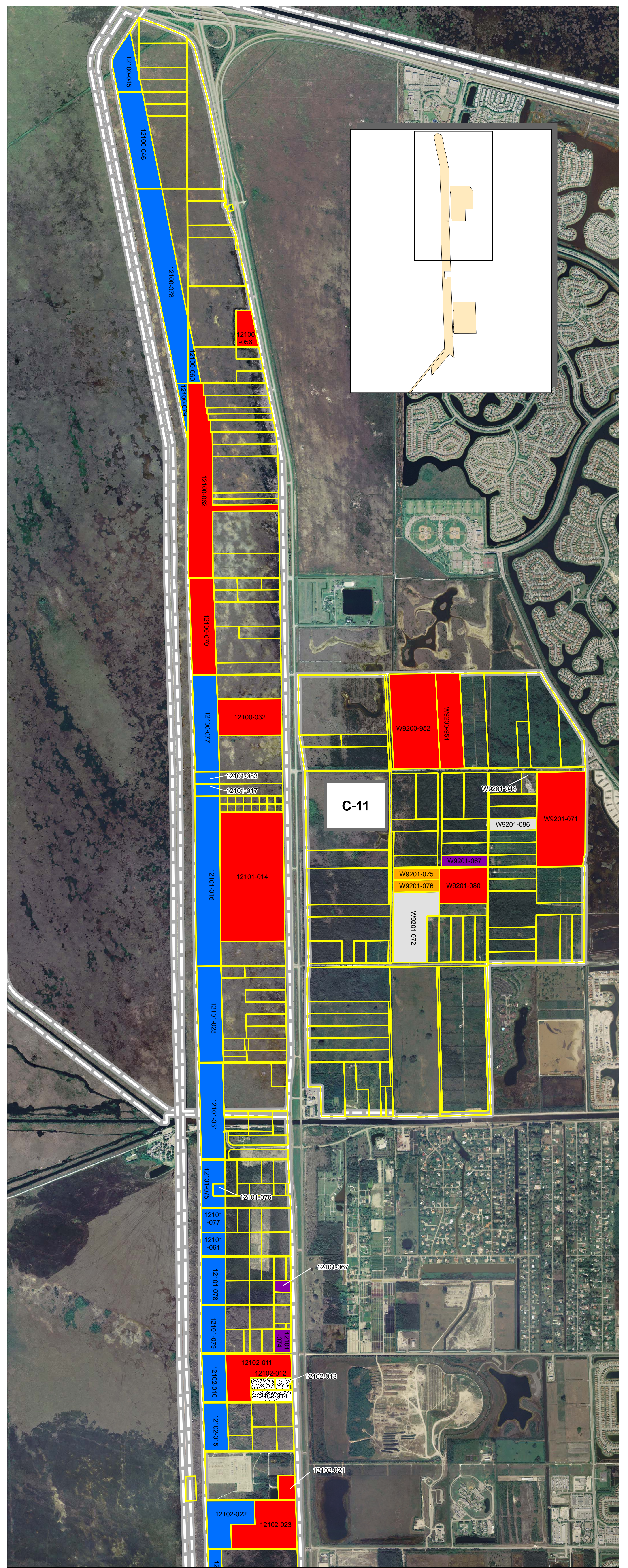
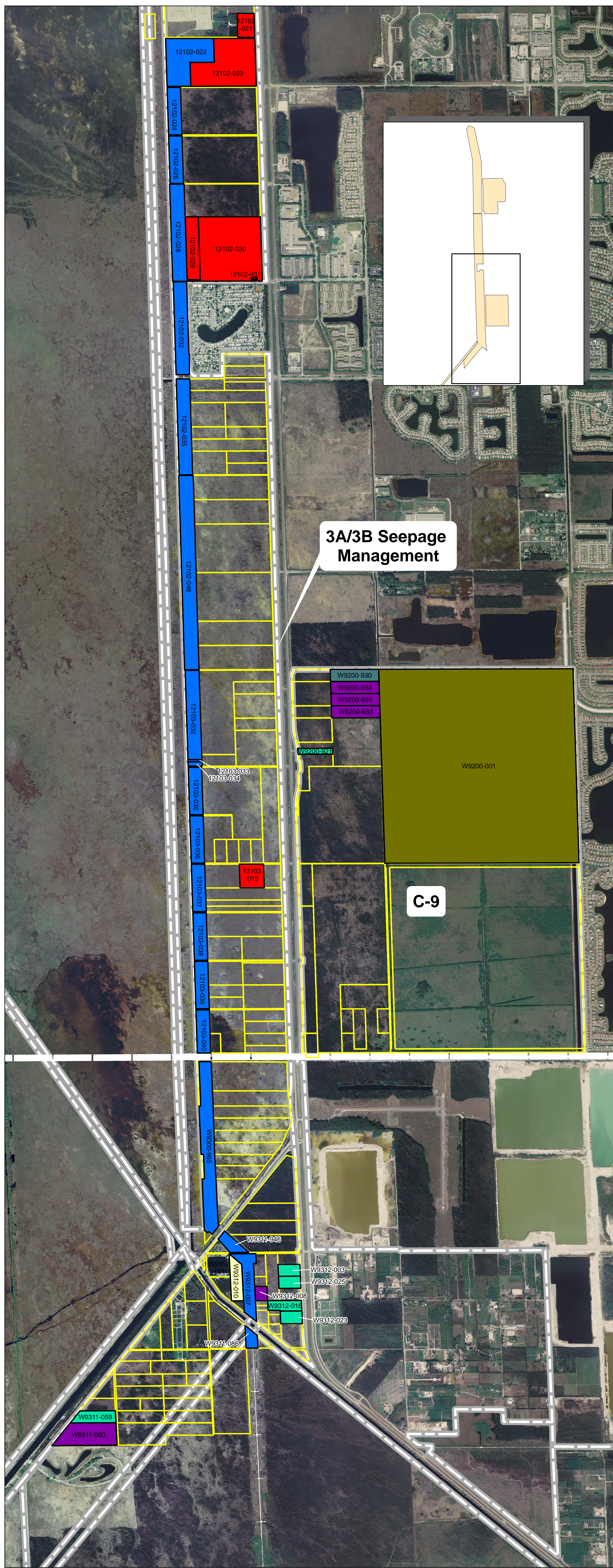
Explanation

- All Tracts Included in the Environmental Evaluation Summary 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas
- Project Area
- County
- Historic Uses of Agricultural Areas**
 - Agriculture
 - Agriculture/Landscape Foliage
 - Asphalt Plant/Equipment Yard/Foliage
 - Livestock



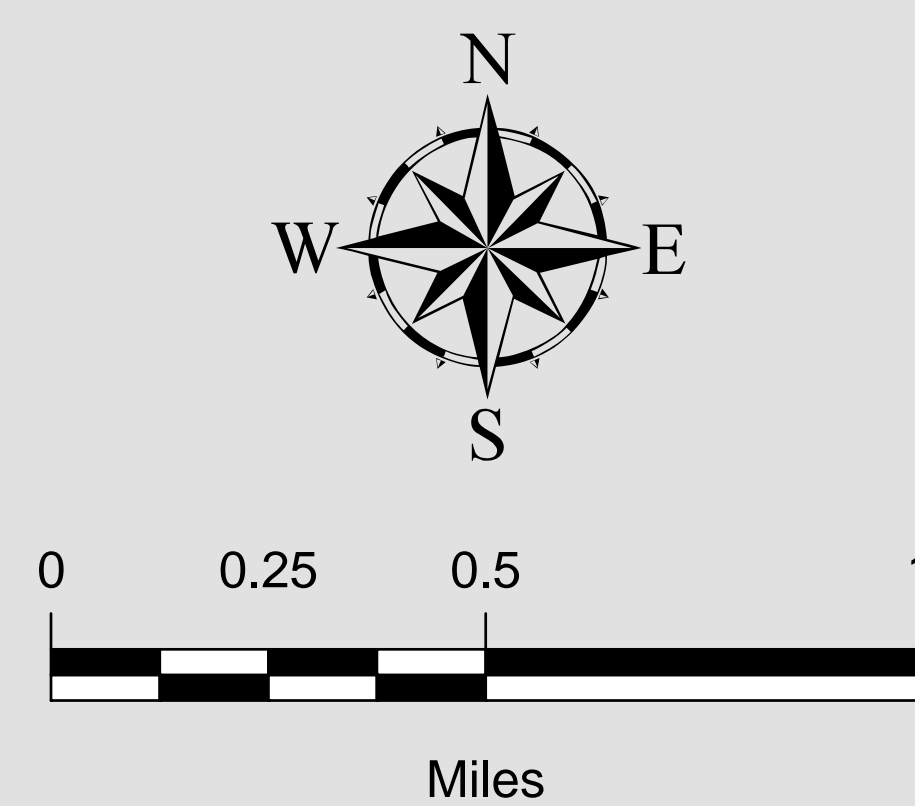
SOUTH FLORIDA WATER
MANAGEMENT DISTRICT
Environmental Evaluation Summary
3A/3B Seepage Management Areas &
C-9/C-11 Impoundment Areas
Land Tracts Utilized for
Agriculture Purposes

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SYSTEMS, INC. ORLANDO, FLORIDA 32803 (407) 894-9900



Explanation

- | | | |
|---|------------------------------|-------------------------------|
| All Tracts Included in the Environmental Evaluation Summary 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas | Asphalt Plant | FUD Site/Livestock/Borrow Pit |
| Project Area | Borrow Pit | Petroleum Storage Facility |
| County | Commercial | Residential |
| | Disposal Area | Trailer Park |
| | Equipment Storage Site | Unidentified AST |
| | Electrical Transmission Line | |

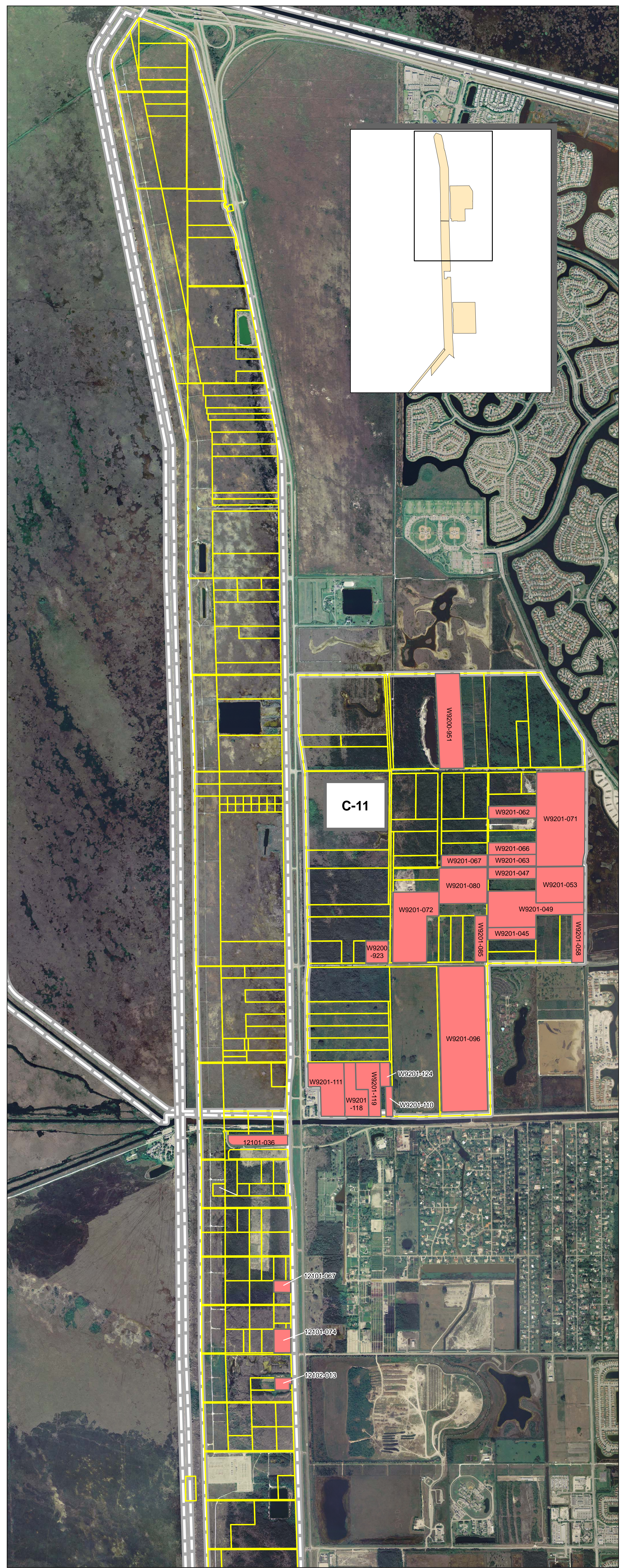
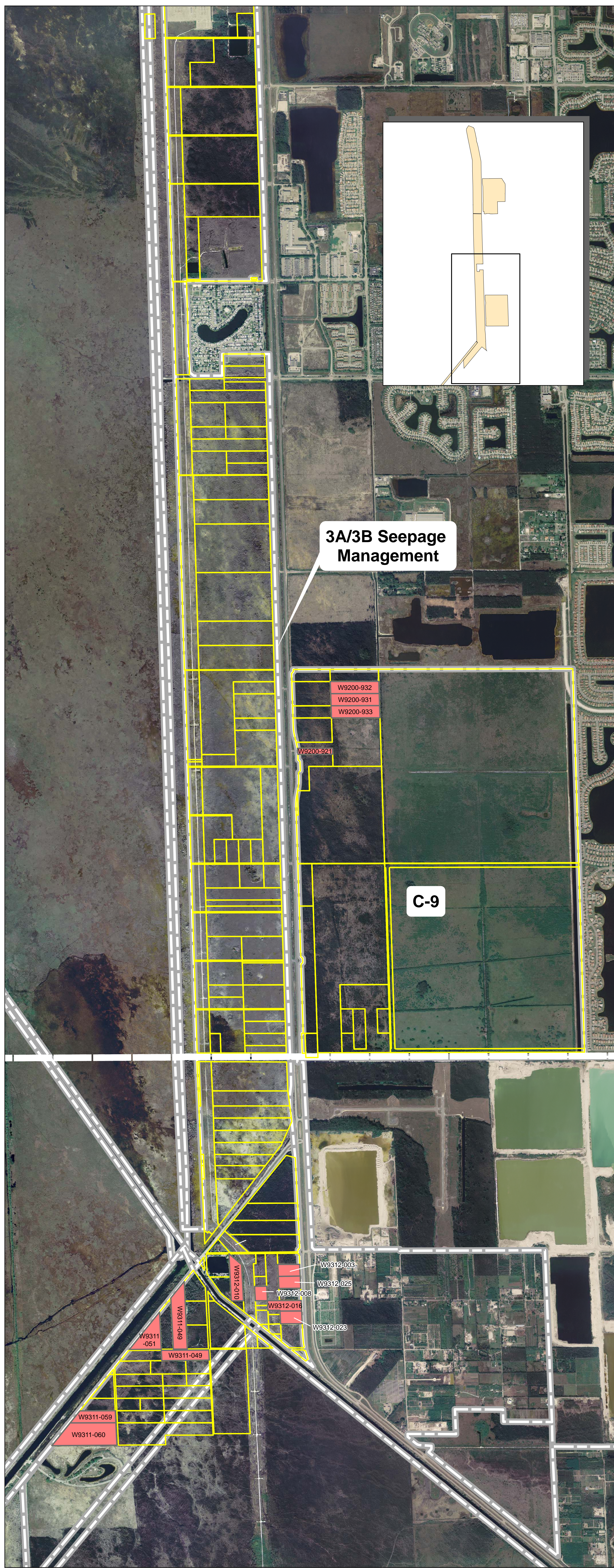


SOUTH FLORIDA WATER
MANAGEMENT DISTRICT

Environmental Evaluation Summary
3A/3B Seepage Management Areas &
C-9/C-11 Impoundment Areas
Land Tracts Utilized for Industrial,
Commercial or Residential Purposes

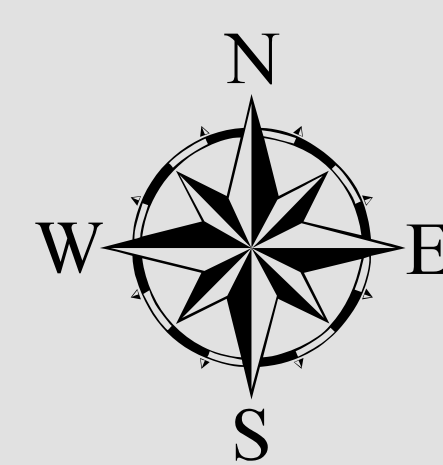
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05-3055CSEO August 2005 Figure 5-3



Explanation

-  All Tracts Included in the Environmental Evaluation Summary 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas
-  Land Tracts that Utilize Septic Systems
-  Project Area
-  County



SOUTH FLORIDA WATER
MANAGEMENT DISTRICT
Environmental Evaluation Summary
3A/3B Seepage Management Areas &
C-9/C-11 Impoundment Areas
Land Tracts that Utilize
Septic Systems

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6.0 SUMMARY OF FINDINGS

This section presents the findings of this environmental evaluation of the 407 land tracts that comprise the 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas.

6.1 Assessed Properties

BEM conducted this Environmental Evaluation Summary Report by reviewing various memorandums and assessment reports maintained by the SFWMD, by reviewing a regulatory database search conducted by EDR, and by conducting aerial and windshield inspections. Based upon the findings of this assessment, the environmental status of a particular land tract was categorized as either “requiring additional assessment” or “no additional assessment required” as described in the following sections of this report.

6.2 Properties Requiring No Additional Assessment

Based upon the results of this modified Phase I ESA, BEM has identified 358 land tracts (88%), that currently meet the requirements of “no additional assessment” for their future intended use for the restoration project. This opinion was derived from the reviewed documents and site assessment reports, information obtained from EDR, and observations of the land tracts during the site inspections. It should be noted that the possibility exists that some debris disposal areas that warrant corrective action were not identified during the aerial inspection. In addition, it should be noted that access was not granted by the current property owners to conduct the interior inspection of the land tracts.

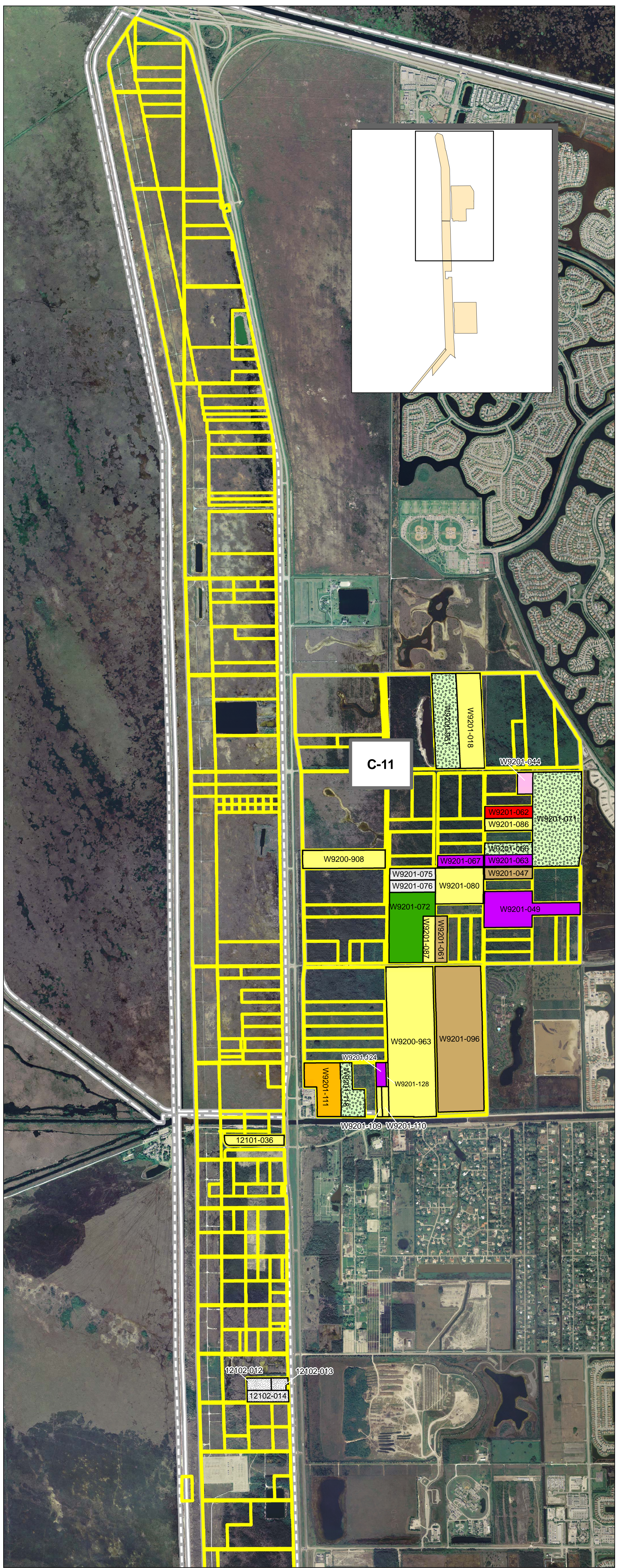
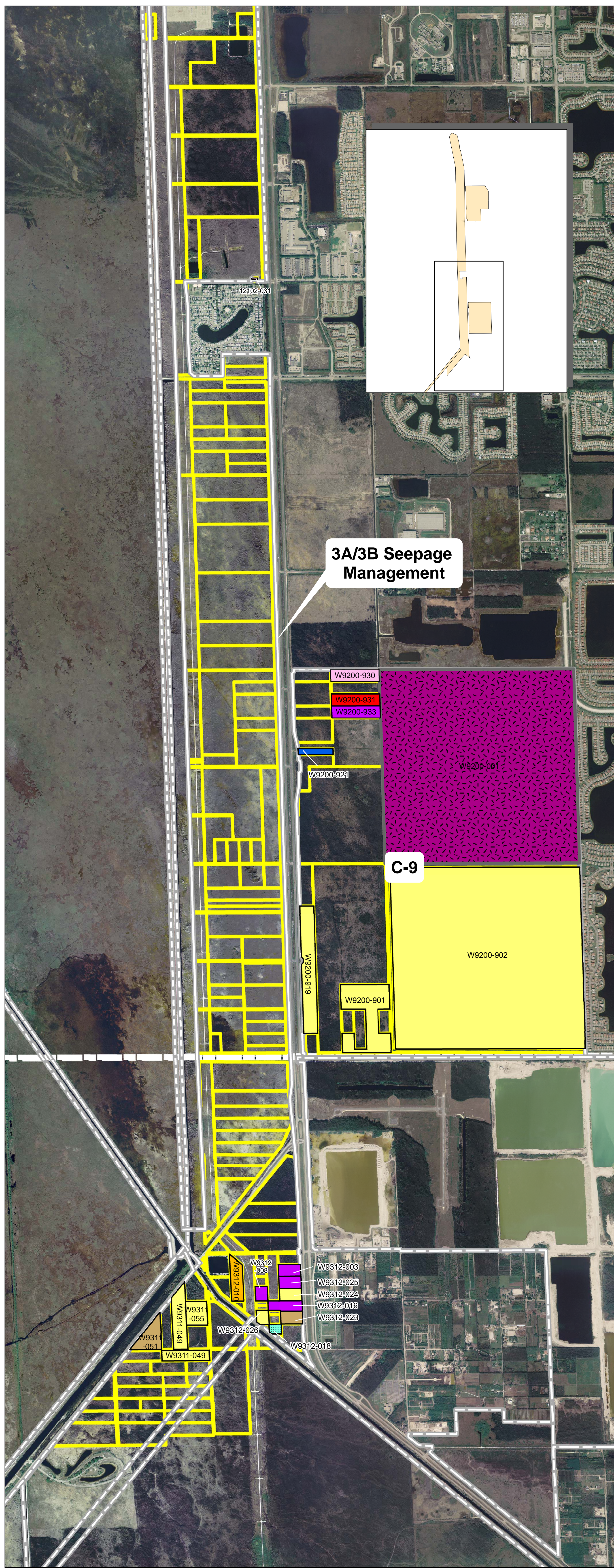
6.3 Properties Requiring Additional Assessment

BEM researched the available reports and documents associated with the land tracts and evaluated whether additional assessment was necessary to ensure that the current environmental status of a particular land tract was appropriate for its proposed future land use.

Based upon the results of this Environmental Evaluation Summary Report, 49 land tracts (approximately 12%) require some type of additional assessment. The additional assessment scope of work varies from conducting a regulatory file review to the implementation of corrective action. The collection of laboratory samples (soil and groundwater) is recommended for 26 of the 49 land tracts that were identified as requiring additional assessment. A summary of the additional assessment recommendations is provided on **Table 6-1**. **Figure 6-1** illustrates the locations of the land tracts that require additional assessment.

**Table 6-1
Summary of Land Tracts Requiring Additional Assessment**

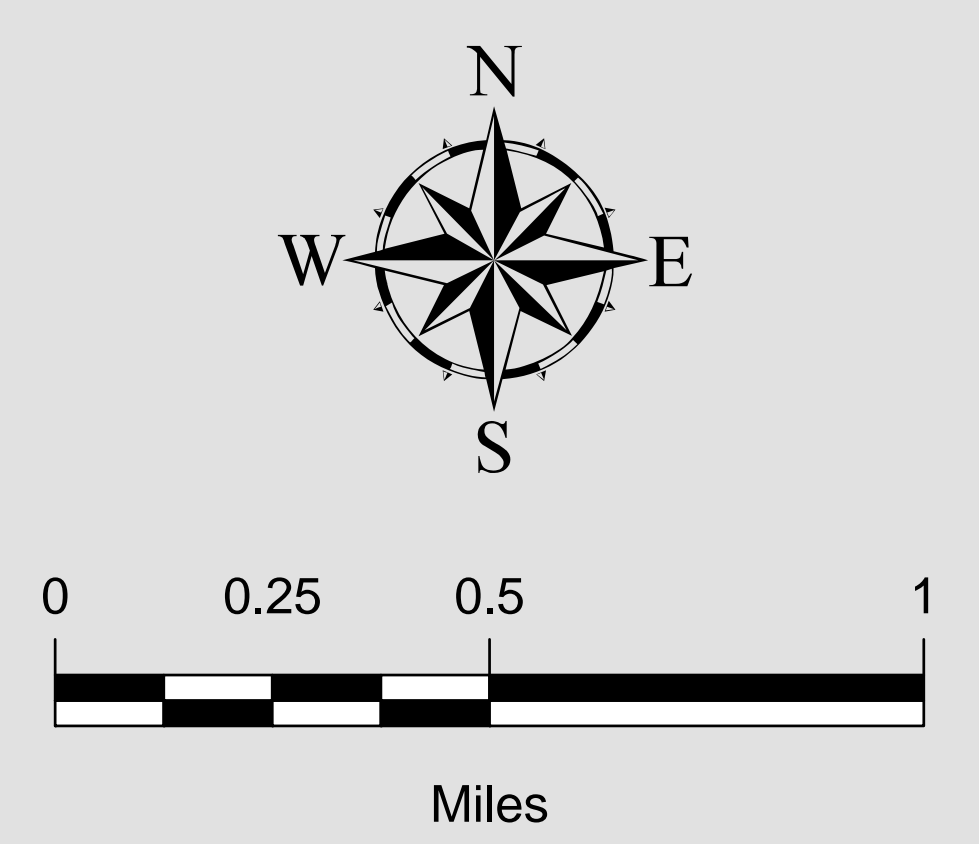
Acquisition ID	Pre-Acquisition Program Owner	Additional Work Necessary
12101-036	BENNETT L. DAVID III, AS TRUSTEE	Soil Sampling of Landscape Foliage/Asbestos Survey
12102-012	GATESWELL (FORMERLY Nixon)	Debris Removal/Remediation Required
12102-013	BISHOP PROPERTY	Debris Removal/Remediation Required
12102-014	DURASKO, JOHN	Debris Removal/Remediation Required
12102-031		File Review for Petroleum Storage Tank Site
W9200-001		FUD Site/UXO Plan Preparation
W9200-901	GISSENDANNER, ELTON AND FRANCES/MILLER	Soil Sampling of Former Equipment Storage Area
W9200-902	BREGMAN FAMILY	Soil Sampling at Cattle Pen
W9200-908	Loewenstein, Henry	Soil Sampling of Landscape Foliage Area
W9200-919	Schultz, Donald	Soil Sample of Landscape Foliage Area
W9200-921	VIETNAMESE BUDDHIST CULTURQAL CENTER ETC/HANDY SITE	Resample monitor well
W9200-930	Kolt, Dan	Site Inspection to identify suspect AST
W9200-931	CPA RENTAL, INC./ELLIOT	Soil Sampling of Arsenic/Asbestos Survey
W9200-933	LANCIAULT, JOHN & JACQUELINE	Asbestos Survey
W9200-951	WHITE CONSTRUCTION COMPANY, INC.	Soil Sampling for delineation
W9200-963	RIBERG INVESTMENTS, INC.	Soil Samples at Cattle Pen
W9201-047	MANSON, ELEANOR ET. AL.	Soil Removal/Asbestos Survey
W9201-049	FUNDEFA INTERNATIONAL, INC./PEREZ	Asbestos Survey
W9201-061	WEEKLEY BROS LEASING CO.	Soil Sample Delineation/Soil Removal
W9201-062	MARUN INC C/O MR. & MRS. MARUN	Soil Sampling of Landscape Foliage/Asbestos Survey
W9201-063	GNARLY GNOME GNURSERY CORP	Asbestos Survey
W9201-066	WILSON, ROGER S. AND KATHLEEN J.	AST Closure
W9201-067	DAHER, JABIB	Asbestos Survey
W9201-071	GRIFFIN BROS CO INC	Soil and Groundwater Assessment
W9201-072	WEEKLEY, DANIEL D., ET. AL.	Soil Removal/Groundwater Sampling/AST Closure
W9201-075	WEEKLEY BROS LEASING CO.	Soil Sampling/Removal of Asphalt Piles
W9201-076	WEEKLEY BROS LEASING CO.	Soil Removal/Soil Sampling/Removal of Asphalt Piles
W9201-080	WEEKLEY, WAYNE D., ET. AL.	Soil Sampling
W9201-086	SMITH, STEPHEN W, ET. AL.	Soil Sampling for delineation
W9201-087	WEEKLEY BROS LEASING CO.	Soil Sampling
W9201-096	INVESTORS MTGE FUNDING CORP/Dubner	Soil Removal/Disposal Area Excavation
W9201-109	GOODMAN, FAITH & ANTHONY	Soil Sampling of Landscape Foliage Area
W9201-110	GOODMAN, B. & EHRlich, N., TRUSTEES	Soil Sampling of Landscape Foliage Area
W9201-111	LEVINSON, MELVIN, TRUSTEE	File Review
W9201-118	CARLO, GARY	AST Closure/Asbestos Survey
W9201-124	SULTANOFF, CLAIRE , TR, ET. AL.	Asbestos Survey
W9201-128	INDIAN TRACE	Soil Sampling
W9311-049	Phoenix S & S/Chang	Soil Sampling
W9311-051	MELVIN & TERESA MORENO/Wingate Enterprise	Soil Excavation
W9311-055	BUELL & IRENE YOUNG	Soil Sampling
W9312-008	PEREZ, CALIXTO AND GLADYS	Asbestos Survey
W9312-010	BLANCO, ARMANDO & MIRIAM, HIS WIFE	Trailer Park Encroachment
W9312-003	CARPOMEX OF AMERICA INT'L/Cruz	Asbestos Survey/Debris Removal
W9312-016	GAROFOLo, ANTHONY L. AND MARTHA	Asbestos Survey/Debris Removal
W9312-018	CORREA, FERNANDO AND ANA E	Removal of Tire Piles
W9312-023	REYNALDO BERMUDEZ/MARTINEZ/MUNIZ	Soil Excavation
W9312-024	RAJA, FRENY/DUARTE	Soil Sampling of Commercial Areas
W9213-025	J. MONTENEGRO EQUIPMENT SERVICE/DELTA HOLDING	Asbestos Survey/Debris Removal
W9312-026	SOCARRAS, GUSTAVO AND JESUS G	Soil Sampling of Commercial Areas



Explanation

Additional Work Necessary

- | | | |
|---|-------------------------------------|--|
| All Tracts Included in the Environmental Evaluation Summary 3A/3B Seepage Management Areas and the C-9/C-11 Impoundment Areas | Asbestos Survey | Soil Removal |
| Project Area | AST Closure | Soil Sampling |
| County | File Review | Soil Sampling/Asbestos Survey |
| | File Review/Site Inspection | Soil Sampling/Removal of Asphalt Piles |
| | FUD Site/UXO Plan Preparation | Soil and Groundwater Sampling |
| | Groundwater Sampling | Removal of Tire Piles |
| | Debris Removal/Remediation Required | |



SOUTH FLORIDA WATER
MANAGEMENT DISTRICT

Environmental Evaluation Summary
3A/3B Seepage Management Areas &
C-9/C-11 Impoundment Areas

Land Tracts Requiring
Additional Assessment

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SYSTEMS, INC.

05-3055CSEO	August 2005	Figure 6-1
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7.0 SUMMARY OF TRACTS REQUIRING ADDITIONAL ASSESSMENT/CORRECTIVE ACTION

This section of the environmental evaluation summary report provides site-specific details of the individual land tracts that require corrective action. The completion of the recommended corrective action for these land tracts should be presented to the SFWMD as supplemental reports that properly document the current site conditions as construction of the restoration commences. Several of these land tracts have multiple-purpose landuse activities and therefore may require the completion of several different types of additional assessment activities. For example, it is possible that a site that requires corrective action may also require the completion of a regulatory file review, the collection of additional samples for laboratory analysis, and/or the disposal of existing debris.

This section of the environmental evaluation summary is presented to detail the land tracts that were identified as requiring further assessment. These land tracts were subdivided into the following categories for this assessment:

- Land Tracts Requiring Corrective Action/Remediation;
- Land Tracts Requiring Soil/Groundwater Assessment; and
- Land Tracts Requiring a Regulatory File Review or Site Inspection

7.1 Land Tracts Requiring Corrective Action/Remediation

Ten of the 54 land tracts were identified as requiring corrective action or remediation to render the property suitable for its intended future land use for the restoration project.

Three of these land tracts (Tract 12102-012, 12102-013 and 12102-014) are associated with an illegal landfill operation located in Section 3, Township 51 South, Range 39 East. According to information obtained from several assessment reports conducted by ECT, these tracts have been backfilled with vegetation, construction debris and metal machinery. Portions of the area are also utilized as a target range for small caliber firearms. Previous assessments conducted by ECT have identified elevated concentrations of petroleum products and metals in the soil and groundwater. A site survey and digital terrain model were utilized to quantify the actual amount of debris located at the site. The estimated amount of discarded material disposed at the land tracts is estimated to be between 120,000 and 210,00 cubic yards. Engineering controls may be implemented at these land tracts to isolate the impacted area from the remaining portion of the project area as a cost-effective alternative to removal and disposal of the debris.

Previous soil assessments conducted at Tract 9201-047 (Manson Property) reported concentrations of selenium above 1.0 milligram per kilogram (mg/Kg) in the vicinity of a chemical storage barn. The concentrations of selenium appear to be contained within the upper six inches of the soil column and are located within the vicinity of the storage barn. Based upon laboratory analytical results of soil samples collected during a Phase II ESA, excavation of surficial soils in the vicinity of the storage barn was recommended as a corrective measure to remove the selenium-impacted soil.



Previous soil assessments conducted at Tracts 9201-072, 9201-075 and 9201-076 (Weekley Property) in 2002 and 2003 identified several areas of petroleum and mercury-impacted soil that required corrective action (excavation). As agreed upon by the property owner and the SFWMD, the corrective actions at these land tracts would not commence until the lease for the property expired and all equipment associated with the asphalt plant operations was relocated to another site. CRB Environmental is currently in the process of conducting the environmental assessment at the Weekley property. The CRB assessment will assess the areas of recognized environmental concern that were identified in the previous Phase II ESA as warranting additional assessment. The results of CRB's environmental assessment are not available at this time for inclusion within this report.

In addition, the SFWMD and Mr. Weekley have agreed to terms for the removal of the onsite existing soil, concrete and recycled asphalt piles. Mr. Weekley indicated that he intends to utilize these materials on an as needed basis during the asphalt production activities conducted at an offsite facility. During the site inspection it appeared that the piles of soil, concrete and asphalt, have decreased in size, however a substantial amount of material remains onsite.

Tract 9201-096 (Dubner Property) contains a debris disposal area in the southern section of the property. The disposal area is approximately 70 feet in diameter and was observed to contain household debris, construction material, automotive parts, concrete, plastic and other types of rubbish. Soil samples collected from the interior and perimeter of the disposal area reported concentrations of metals including lead, barium and arsenic above the FDEP Residential Soil Cleanup Target Levels (SCTLs). In addition, selenium was reported above 1.0 mg/Kg in several samples collected from the debris area. The analytical results of the groundwater samples collected from the monitoring wells installed at the debris area reported all analyzed parameters below regulatory cleanup values. Removal of the debris and the metals-impacted soil was recommended for the site during the completion of a previous Phase II ESA.

Tract 9311-051 (Moreno Property) is located along Krome Avenue and was identified as a historic pig farm. The initial Phase I/II ESA conducted at the site by MACTEC reported concentrations of organochlorine pesticides and metals that exceeded the FDEP Sediment Quality Assessment Guidelines (SQAGs) in several locations. In 2004 and 2005, soil assessments were conducted at the site to delineate the extent of pesticide-impacted soil. Based upon the assessment results, a large area of impacted soil was identified in the former pig yard and at the pig pen runoff swale that warranted corrective action. Based upon the extent of impacted soil, Newfields L.L.C. conducted an ecological risk assessment utilizing the laboratory results obtained from the previous sampling efforts. The results of the ecological assessment indicated that areas of organochlorine-impacted soil existed in concentrations that may impact Trust Resource species if flooded and therefore excavation of "hot-spot" areas was recommended to reduce the potential impact to ecological receptors. The ecological risk assessment and the soil delineation assessment report were provided to USFWS for review and comment prior to implementation of the soil excavation activities. The USFWS has not completed their review of the ecological assessment and the soil delineation assessment report at this time.



Tract 9312-023 (Muniz Property) is located in the southern section of the project area and utilized a small pig pen on a portion of the property. The initial Phase I/II ESA conducted at the site by Langan reported concentrations of organochlorine pesticides that exceeded the FDEP SQAGs. The area of impacted soil was delineated and estimated to encompass an area of approximately 10 feet wide x 10 feet long x 1 foot deep. The volume of impacted soil was estimated to be 5 tons. Langan recommended that the area of impacted soil be excavated and properly disposed prior to use of the site for the restoration project.

7.2 Land Tracts Requiring Soil/Groundwater Assessments

Twenty-six land tracts were identified as requiring the completion of a soil and/or groundwater assessment to assess areas of recognized environmental concern that were identified in previous ESAs. The recommended scope of work for the assessment activities range from the collection of one or two laboratory samples to the commencement of a full-scale site assessment. **Table 7-1** provides a summary of the 26 land tracts that require soil and/or groundwater assessment.

Table 7-1
Summary of Land Tracts Requiring Soil/Groundwater Assessment

Tract Number	Additional Assessment Required	Section	Township	Range
12101-036	Soil Assessment/Asbestos Survey	34	50	39
9200-901	Soil Assessment	26	51	39
9200-902	Soil Assessment	35	51	39
9200-908	Soil Assessment	22	50	39
9200-919	Soil Assessment	34	51	39
9200-921	Groundwater Sampling	27	51	39
9200-931	Soil Assessment	22	50	39
9200-951	Soil Assessment	14	50	39
9200-963	Soil Assessment	26	50	39
9201-061	Soil Assessment	23	50	39
9201-062	Soil Assessment	23	50	39
9201-071	Soil and Groundwater Assessment	23	50	39
9201-072	Soil and Groundwater Assessment	23	50	39
9201-075	Soil Assessment	23	50	39
9201-076	Soil Assessment	23	50	39
9201-080	Soil Assessment	23	50	39
9201-086	Soil Assessment	23	50	39
9201-087	Soil Assessment	23	50	39
9201-109	Soil Assessment	27	50	39
9201-110	Soil Assessment	27	50	39
9201-128	Soil Assessment	27	50	39
9311-049	Soil Assessment	9	52	39
9311-055 Encroachment from 9311-049	Soil Assessment	9	52	39
9312-023	Soil Assessment	10	52	39



9312-024	Soil Assessment	10	52	39
9312-026	Soil Assessment	10	52	39

7.3 Land Tracts Requiring a Regulatory File Review or Site Inspection

Eight land tracts were identified as requiring a regulatory file review or a thorough site inspection to assess if potential RECs warrant additional assessment. The regulatory review recommended for Tracts 12101-031 and 9201-111 is necessary to determine if any potential discharges of petroleum products have occurred that may have impacted the land tracts. A file review is recommended for Tract 9201-044 to assess if petroleum storage tanks were historically utilized at the site to supply fuel to an emergency generator. In addition, inquiry is necessary to determine if any equipment containing PCB-oils are utilized at the site.

The completion of a site inspection is necessary for Tracts 9200-930, 9201-066, and 9201-118 to assess if petroleum storage tanks exist onsite. Petroleum storage tanks were identified on Tracts 9201-066 and 9201-118 during previous assessments. The completion of a Tank Closure Assessment was previously recommended for these petroleum storage systems during the completion of a Phase II ESA. No documentation was identified that indicated if fuel tanks remain onsite or were properly closed. An AST was identified on the interior of Tract 9200-930. The use and contents of this tank are unknown. Due to flooding, the AST at Tract 9200-930 was inaccessible during the site inspection. A site inspection is also recommended for Tract 9312-018. During the aerial inspection two large piles of tires were observed on the subject property. Approximately 200 to 300 discarded tires were observed along the side of a levee road and on the interior of the site. The immediate area surrounding the site also appears to contain several debris piles. The SFWMD informed BEM that Dade County will aid in the disposal of the discarded materials and tires observed in the vicinity of Tract 9312-018.



8.0 ENVIRONMENTAL EVALUATION REPORT CONCLUSIONS

8.1 Summary of Findings

Based upon the findings of this environmental evaluation summary report, only 54 of the 408 (13%) land tracts which comprise the 3A/3B Seepage Management Areas & C-9/C-11 Impoundments require additional assessment. The potential RECs that were identified within the project boundary that require additional investigation include: use of the land tracts for growth of landscape foliage, a former defense site, onsite and adjacent petroleum storage systems, waste disposal activities, and chemical storage and use. The recommended additional assessment activities range from the completion of a regulatory file review to the implementation of full-scale corrective action measures.

8.2 Opinion

Based upon the information obtained during the completion of this evaluation summary, several adjacent and nearby facilities were identified in the EDR report as utilizing and storing regulated chemicals. In addition, several sanitary waste disposal facilities were also located within the vicinity (within one-mile) of the site. The information provided in the EDR report was reviewed and the physical characteristics of these facilities were noted during the site inspection. It is our opinion that the activities conducted at these offsite facilities have not environmentally impacted the project land tracts. It should be noted that the completion of soil and groundwater assessments, as well as a thorough regulatory file review at Broward County could provide additional information that could contradict this opinion. The implementation of soil and groundwater assessments at each of the land tracts within the project area is not feasible.

Debris disposal areas were observed on several of the land tracts assessed during the completion of this investigation. "Ground-truthing" of the individual land tracts may identify some disposal areas that were not identified during the aerial inspection. A majority of the disposal areas were observed in areas that are near residential communities, along roadways with unrestricted access, and along the electrical transmission powerline right-of-way.

At the request of the SFWMD, costs to complete the additional assessment activities at the 54 sites were estimated. It should be noted that this cost estimate is based upon limited information and it should not be relied upon by the SFWMD for budgetary funding or for cleanup purposes. The cost estimate is provided for the SFWMD's use to evaluate the potential costs associated with the completion of the recommended additional assessment activities. The actual assessment/remedial costs for land tracts that require multiple types of assessment activities (soil excavation, groundwater sampling, asbestos surveys) will likely vary from the provided estimate since the scope of work requires the use of subcontracted companies. **Table 8-1** provides a summary of the estimated costs to complete the additional assessment activities for the 3A/3B Seepage Management Areas & C-9/C-11 Impoundments project area. The completion of a site assessment in accordance with FDEP protocol is the most-prudent means to obtain actual cleanup costs for these 54 land tracts.



8.3 Conclusions and Recommendations

This Environmental Evaluation Summary Report has revealed no recognized environmental conditions in connection with 354 of the 408 land tracts that were evaluated during the completion of this assessment. **No environmental conditions were identified from the use, storage or disposal of hazardous chemicals for 354 of the 408 land tracts (87%) of the 3A/3B Seepage Management Areas and C-9/C-11 Impoundments Area that would preclude their use from the proposed restoration project.**

Of the 54 remaining sites, ten land tracts (Tracts 12102-012, 12102-013, 12102-014, 9201-047, 9201-072, 9201-075, 9201-076, 9201-096, 9311-051, and 9312-023) were identified as requiring remediation or corrective action prior to use for the restoration project. These land tracts are associated with illegal disposal sites (Tracts 12102-012, 12102-013, 12102-014, and 9201-096), a chemical storage barn (Tract 9201-047), an asphalt plant (Tracts 9201-072, 9201-075, and 9201-076) and former pig farms (Tracts 9311-051, and 9312-023).

Twenty-six of the 54 land tracts require soil and/or groundwater investigations to assess for impacts associated with historic agriculture (crops, foliage, and livestock) activities, disposal practices, petroleum storage, and industrial and commercial activities.

Eight of the 51 land tracts require a regulatory file review or a thorough site inspection to assess if potential RECs warrant additional investigation. The regulatory review is required to assess if there are any recent chemical spills or petroleum discharges that could have impacted the land tracts. A site inspection is necessary at Tracts 9200-930, 9201-066, and 9201-118 to determine if petroleum storage tanks remain at the sites. If storage tanks are identified onsite or evidence of a petroleum discharge (soil staining) is observed, then the completion of a Tank Closure Assessment or Site Assessment is recommended.

The remaining parcels require the preparation of an asbestos survey, abandonment of septic tanks or removal of abandoned structures. The extent of the required additional assessment for these sites varies since several of the land tracts had multi-purpose land use.

It should be noted that borrow pits were excavated on several of the land tracts within the project area. It is possible that various types of debris have been discarded into the borrow pits that is not visible above the surface of the water. The potential exists that mining equipment, piping, metal buckets, and draglines, household appliances, furniture and automotive parts were discarded into the borrow pits or buried within the area that surrounds the borrow pits. Any debris encountered in the borrow pits or within the surrounding area should be disposed appropriately.

BEM certifies that this Environmental Evaluation Summary Report has been completed in a professional manner consistent with BEM's proposal dated 16 May 2005. In accordance with the scope of work, this report is certified to the SFWMD, its successors, and/or assigns.

Table 8-1
Summary of Findings for Land Tracts that Require Additional Assessment

Tract Number	Conclusions	Recommendations
12101-036	<ul style="list-style-type: none"> • Historically utilized for landscape foliage • Structures exist onsite • Septic system onsite 	<ul style="list-style-type: none"> • Soil assessment in the foliage fields • Soil assessment at storage structures • Completion of an asbestos survey • Abandonment of septic system
12102-012 12102-013 12102-014	<ul style="list-style-type: none"> • Un-permitted disposal facility • Large amounts of debris accumulation • Impacted soil and groundwater onsite • Small arms firing range onsite 	<ul style="list-style-type: none"> • Removal of debris • Removal of lead from shooting range • Engineering controls
9200-930 9201-066 9201-111 9201-118 9312-010 12102-031	<ul style="list-style-type: none"> • Potential petroleum storage • Unidentified AST • Petroleum AST onsite • Adjacent petroleum service station • Trailer Park Encroachment • Potential septic systems 	<ul style="list-style-type: none"> • Site Inspection • File Review • Abandonment of septic systems
9200-001	<ul style="list-style-type: none"> • FUD site 	<ul style="list-style-type: none"> • Preparation of a UXO plan
9200-901	<ul style="list-style-type: none"> • Livestock use • Former equipment storage area 	<ul style="list-style-type: none"> • Collection of soil samples from the former equipment storage area
9200-902	<ul style="list-style-type: none"> • Livestock use – Cattle pen • Former structures onsite • Septic system onsite 	<ul style="list-style-type: none"> • Collection of soil samples from the former cattle pen • Abandonment of septic system
9200-908	<ul style="list-style-type: none"> • Historically utilized for landscape foliage 	<ul style="list-style-type: none"> • Soil assessment in the foliage fields
9200-919	<ul style="list-style-type: none"> • Historically utilized for landscape foliage 	<ul style="list-style-type: none"> • Soil assessment in the foliage fields
9200-921	<ul style="list-style-type: none"> • Former automotive repair shop • Backfill material contains debris • Petroleum-impacted groundwater onsite 	<ul style="list-style-type: none"> • Installation of a monitor well • Collection of a groundwater sample
9200-933 9201-049 9201-063 9201-067 9201-124 9312-008	<ul style="list-style-type: none"> • Abandon structures exist onsite • Septic systems onsite 	<ul style="list-style-type: none"> • Asbestos survey • Removal of structures • Abandonment of septic systems
9200-931	<ul style="list-style-type: none"> • Structures exist onsite • Septic systems onsite • Arsenic reported in soil above FDEP SQAGs 	<ul style="list-style-type: none"> • Asbestos survey • Removal of structures • Abandonment of septic systems • Collection of soil samples
9200-951	<ul style="list-style-type: none"> • Mining activities conducted onsite • Heavy machinery equipment yard • Petroleum-impacted soil onsite 	<ul style="list-style-type: none"> • Removal of machinery • Collection of soil samples
9200-963	<ul style="list-style-type: none"> • Livestock use • Former cattle pen onsite 	<ul style="list-style-type: none"> • Collection of soil samples from cattle pen
9201-047	<ul style="list-style-type: none"> • Chemical storage barn onsite • Selenium-impacted soil onsite • Structures existed onsite • Septic systems onsite 	<ul style="list-style-type: none"> • Removal of selenium impacted soils in the vicinity of the storage barn. • Asbestos survey • Abandonment of septic systems
9201-061 9201-072 9201-075 9201-076 9201-080	<ul style="list-style-type: none"> • Heavy machinery equipment yard • Asphalt plant • Fuel storage tanks onsite • Structures onsite 	<ul style="list-style-type: none"> • Soil assessment and excavation • Tank Closure Assessments • Groundwater assessment • Abandonment of septic systems

Table 8-1
Summary of Findings for Land Tracts that Require Additional Assessment

Tract Number	Conclusions	Recommendations
9201-087	<ul style="list-style-type: none"> • Debris onsite • Petroleum and metals impacted soil onsite • Impacted groundwater onsite • Large aggregate piles onsite 	<ul style="list-style-type: none"> • Removal of equipment and debris • Removal of aggregate piles
9201-062	<ul style="list-style-type: none"> • Historically utilized for landscape foliage • Structures existed onsite • Septic systems onsite 	<ul style="list-style-type: none"> • Soil assessment in the foliage fields • Asbestos survey • Abandonment of septic systems
9201-071	<ul style="list-style-type: none"> • Heavy machinery equipment yard • Fuel storage tanks formerly onsite • Septic systems onsite • Impacted media onsite 	<ul style="list-style-type: none"> • Proper Closure of ASTs required • Abandonment of septic systems • Removal of remaining equipment and debris
9201-086	<ul style="list-style-type: none"> • Heavy machinery equipment yard • Historically utilized for landscape foliage • Fuel storage tanks formerly onsite • Structures existed onsite • Petroleum-impacted soil onsite 	<ul style="list-style-type: none"> • Collection of soil samples from petroleum-impacted areas • Removal of remaining equipment and debris
9201-096	<ul style="list-style-type: none"> • Disposal area onsite • Metals-impacted soil onsite • Structures existed onsite • Septic systems onsite 	<ul style="list-style-type: none"> • Removal of solid waste • Excavation of metals-impacted soil • Removal of remaining debris • Abandonment of septic systems
9201-109	<ul style="list-style-type: none"> • Historically utilized for landscape foliage 	<ul style="list-style-type: none"> • Soil assessment in the foliage fields
9201-110	<ul style="list-style-type: none"> • Historically utilized for landscape foliage 	<ul style="list-style-type: none"> • Soil assessment in the foliage fields
9201-128	<ul style="list-style-type: none"> • Historically utilized for landscape foliage 	<ul style="list-style-type: none"> • Soil assessment in the foliage fields
9311-049	<ul style="list-style-type: none"> • Historic use was livestock • Current use is landscape nursery • Storage barns onsite • Septic systems onsite 	<ul style="list-style-type: none"> • Soil and Groundwater Assessment • Asbestos Survey • Abandonment of septic system • Removal of structures and debris
9311-051	<ul style="list-style-type: none"> • Historic livestock use • Collection pits and septic systems onsite • Pesticide and metal impacted soil exist onsite • Ecological risk assessment determined soil excavation is necessary 	<ul style="list-style-type: none"> • Excavation of impacted soil • Removal of existing structures • Abandonment of collection pits and septic systems.
9311-055	<ul style="list-style-type: none"> • Encroachment of adjacent landscape foliage nursery • Structures onsite 	<ul style="list-style-type: none"> • Soil and Groundwater Assessment • Asbestos Survey • Abandonment of septic system • Removal of structures and debris
9312-023	<ul style="list-style-type: none"> • Impacted soils • Structures onsite • Potential debris disposal 	<ul style="list-style-type: none"> • Soil excavation • Abandonment of septic system • Removal of structures and debris
9312-003 9312-016 9312-025	<ul style="list-style-type: none"> • Structures exist onsite • Potential commercial use • Septic systems onsite 	<ul style="list-style-type: none"> • Asbestos Survey of existing structures • Abandonment of septic systems • Removal of structures and debris
9312-024 9312-026	<ul style="list-style-type: none"> • Commercial and agriculture use 	<ul style="list-style-type: none"> • Soil assessment • Removal of debris
9312-018	<ul style="list-style-type: none"> • Tire disposal site 	<ul style="list-style-type: none"> • Removal of 200 to 300 discarded tires

**Table 8-2
Estimated Costs for Land Tracts Requiring Additional Assessment**

Tract Number	Recommendations	Estimated Assessment Costs^{1,2}
7 Individual Land Tracts	<ul style="list-style-type: none"> Initial soil assessment in the former foliage fields 	\$35,000 to \$70,000 for all sites
12102-012 12102-013 12102-014	<ul style="list-style-type: none"> Removal of debris Removal of lead from shooting range Engineering controls 	\$2,000,000 to \$10,000,000 at Bishop/Nixon Property. Property not owned by SFWMD.
6 Individual Land Tracts	<ul style="list-style-type: none"> Site Inspection File Review 	\$5,000 to \$10,000 for all sites
9200-001	<ul style="list-style-type: none"> Preparation of a UXO plan 	⁽¹⁾ Pending excavation and construction of restoration project. US Army Corps - Jacksonville to re-evaluate the site in FY 2006.
3 Individual Land Tracts	<ul style="list-style-type: none"> Initial soil assessment from the former cattle pens 	\$30,000 to \$50,000 for all sites
9200-921 <u>Buddhist Temple</u>	<ul style="list-style-type: none"> Installation of a monitor well Collection of a groundwater sample 	\$5,000 to \$10,000
40 Individual Land Tracts	<ul style="list-style-type: none"> Abandonment of septic systems 	\$45,000 to \$85,000 for all sites
20 Individual Land Tracts	<ul style="list-style-type: none"> Asbestos survey 	\$10,000 to \$20,000 for all sites
9200-951 <u>White Property</u>	<ul style="list-style-type: none"> Removal of machinery Collection of soil samples 	Ongoing Assessment by Property Owner. Report to be provided to SFWMD
9201-047 <u>Manson Property</u>	<ul style="list-style-type: none"> Removal of selenium impacted soils in the vicinity of the storage barn. Asbestos survey Abandonment of septic systems 	\$5,000 to \$15,000
9201-061 9201-072 9201-075 9201-076 9201-080 9201-087 <u>Weekley Property</u>	<ul style="list-style-type: none"> Soil assessment and excavation Tank Closure Assessments Groundwater assessment Abandonment of septic systems Removal of equipment and debris Removal of aggregate piles 	Ongoing Assessment by Property Owner's consultant (CRB). CRB to provide the SFWMD, FDEP and USFWS with assessment report for review and comment. Property Owner Required to Remove Large Soil, Concrete and Asphalt Piles
9201-071 <u>Griffin Brothers</u>	<ul style="list-style-type: none"> Soil Assessment for Tank Closure Abandonment of septic systems Removal of remaining equipment and debris 	\$10,000 to \$20,000
9201-086 <u>Smith Property</u>	<ul style="list-style-type: none"> Collection of soil samples from petroleum-impacted areas Removal of remaining equipment and debris 	Ongoing Assessment by Property Owner's consultant (CRB). Soil excavation conducted at petroleum-impacted areas. CRB to provide the SFWMD, FDEP and USFWS with assessment report for review and comment.
9201-096 <u>Dubner Property</u>	<ul style="list-style-type: none"> Removal of solid waste Excavation of metals-impacted soil Removal of remaining debris Abandonment of septic systems 	\$5,000 to \$15,000

**Table 8-2
Estimated Costs for Land Tracts Requiring Additional Assessment**

Tract Number	Recommendations	Estimated Assessment Costs^{1, 2}
9311-049 <u>Coast to Coast Foliage</u>	<ul style="list-style-type: none"> • Soil and Groundwater Assessment • Asbestos Survey • Abandonment of septic system • Removal of structures and debris 	\$50,000 to \$150,000 Property has not been acquired by the SFWMD. Possible wetland violations at the site.
9311-051 <u>Pig Farm</u>	<ul style="list-style-type: none"> • Excavation of impacted soil • Removal of existing structures • Abandonment of collection pits and septic systems. 	Current Assessment and Remediation Being Conducted By SFWMD Environmental Consultant. Excavation and assessment methods have been approved by USFWS
9311-055 (Encroachment)	<ul style="list-style-type: none"> • Soil and Groundwater Assessment • Asbestos Survey • Abandonment of septic system • Removal of structures and debris 	\$10,000 to \$20,000 Possible encroachment by property owner of 9311-049. Structures and landscape foliage located onsite from adjacent nursery.
9312-023 <u>Muniz Property</u>	<ul style="list-style-type: none"> • Excavation of impacted soil recommended at former pig pen. 	\$5,000 to \$7,000 Costs to remove pesticide impacted soil at a small pig pen.
9312-024 9312-026	<ul style="list-style-type: none"> • Soil assessment recommended from Phase I ESA • Removal of structures and debris 	\$15,000 to \$30,000 for both
9312-008	<ul style="list-style-type: none"> • Demolition of structure • Asbestos survey • Removal of debris 	\$10,000 to \$20,000
9312-018	<ul style="list-style-type: none"> • Removal of 200 to 300 discarded tires • Dade County will help with disposal process 	\$1,000 to \$3,000
	Estimated Additional Assessment Costs	\$2,241,000 to \$10,520,000

NOTE The cost estimate presented in this table is based upon limited information and should not be relied upon for budgetary funding or cleanup purposes. The cost estimate is provided for use to evaluate the potential costs associated with additional assessment activities recommended for the land tracts. Cost estimates for land tracts that were identified as requiring multiple types of additional assessment/corrective actions (soil excavation, groundwater sampling, asbestos surveys) will likely vary from the amount provided in this summary table since these activities involve the use of subcontracted companies to complete the required tasks.

1. The preparation of a UXO plan by a qualified firm or the U.S. Army Corps will be required should any excavation or other types of earth-moving activities be conducted at Tract 9200-001 as part of the restoration project.
2. Cost estimates are based upon:
 - a) An assumed initial soil sampling plan of 3 soil samples per site for analysis of organochlorine pesticides, organophosphorus pesticides and metals.
 - b) A typical asbestos survey will be approximately \$500 to \$1,000 per site.
 - c) A typical septic tank abandonment will be approximately \$1,500 to \$2,000 per site.
 - d) Estimates provided in assessment reports conducted by other consultants
 - e) Disposal costs for materials are not included for structures.
 - f) Disposal costs for used tires is \$3.50 per tire.
 - g) Information provided by the SFWMD

The cost table does not include costs for delineation, remediation or corrective action should the initial soil assessment at the foliage fields report levels above regulatory cleanup criteria.

Appendix A

Scope of Work



Environmental Engineers and Scientists

May 16, 2005

Mr. Robert Taylor
Land Acquisition Support Division
South Florida Water Management District
3301 Gun Club Road, Building B-1
West Palm Beach, FL 33416

**RE: Proposal – Project Review and Summary Preparation
South Florida Water Management District
Florida**

Dear Mr. Taylor:

BEM Systems, Inc. (BEM) is pleased to submit to the South Florida Water Management District (SFWMD) this Cost Proposal to conduct a regulatory file review and prepare a summary report of several projects currently being conducted by the District. The Scope of Work for this project includes:

- Review of District maps to identify the foot-print of each project area;
- Conduct a records review to identify the individual parcels within a project foot-print;
- Evaluate previous assessment reports and memorandums to establish the environmental status of each parcel;
- Determine which parcels require further environmental assessment;
- Of the parcels that require further assessment, identify if the District or property owner is responsible for funding the additional assessment activities;
- Of the parcels which require additional assessment by the landowner, BEM shall contact the landowner, or their representative, to determine the progress of the assessment activities; and
- Prepare a summary report for each project area that clearly describes the findings of the file review.

It is BEM's understanding that all files and records are centrally located at the District's Dupuis Office and that these records are available for review. It is BEM's understanding that it may take several days to review the regulatory records at the District Office.

COSTS AND ASSUMPTIONS

Based upon conversations with the SFWMD, BEM has prepared this cost proposal to prepare summary reports for several project areas for the District. The completion of this project assumes the following assumptions:

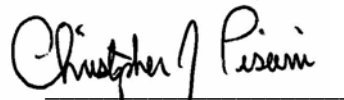
1. Project specific maps that illustrate the project foot-print are readily available at the District office.
2. The individual parcel boundaries and identification numbers are available through a GIS or excel database.
3. The summary report will be prepared on a project area basis. Each individual parcel located within a project area does not require a separate summary report.
4. The summary report can be prepared in a letter and table format.
5. BEM will not be required to include copies of each individual assessment report conducted for particular parcels that comprise a project area.

The cost estimate to conduct the project summary review and report for the SFWMD is . _____
A summary of the costs associated with the completion of this task are provided in **Table 1**.

If you have any questions or concerns with the above SOW and/or the proposed analyses, please contact me so we can discuss them in detail. Thank you for the opportunity to provide the SFWMD with this proposal. If you have any questions, please do not hesitate to contact me at (407) 894-9900.

Sincerely,

BEM SYSTEMS, INC.



Chris Pisarri
Project Manager

Attachments – Costing Sheets

CC: Patricia Strayer – BEM West Palm
file

Appendix B

EDR Database Report



EDR DataMap™ Area Study

**South Florida Area Study
Ft. Lauderdale, FL 33327**

June 28, 2005

Inquiry number 01453899.1r

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06460

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR).

TARGET PROPERTY INFORMATION

ADDRESS

FT. LAUDERDALE, FL 33327
FT. LAUDERDALE, FL 33327

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records within the requested search area for the following databases:

FEDERAL ASTM STANDARD

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned
CORRACTS..... Corrective Action Report
RCRA-TSDF..... Resource Conservation and Recovery Act Information
RCRA-LQG..... Resource Conservation and Recovery Act Information

STATE ASTM STANDARD

SHWS..... Florida's State-Funded Action Sites
INDIAN UST..... Underground Storage Tanks on Indian Land
VCP..... Voluntary Cleanup Sites
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

FEDERAL ASTM SUPPLEMENTAL

CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
Delisted NPL..... National Priority List Deletions
HMIRS..... Hazardous Materials Information Reporting System
MLTS..... Material Licensing Tracking System
NPL Liens..... Federal Superfund Liens
PADS..... PCB Activity Database System
DOD..... Department of Defense Sites
UMTRA..... Uranium Mill Tailings Sites
ODI..... Open Dump Inventory
INDIAN RESERV..... Indian Reservations
US ENG CONTROLS..... Engineering Controls Sites List

EXECUTIVE SUMMARY

RAATS	RCRA Administrative Action Tracking System
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
SSTS	Section 7 Tracking Systems
FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

FI Sites	Sites List
FL Cattle Dip. Vats	Cattle Dipping Vats
DEDB	Ethylene Dibromide Database Results
PRIORITYCLEANERS	Priority Ranking List
SPILLS	Oil and Hazardous Materials Incidents
ENG CONTROLS	Institutional Controls Registry

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas	Former Manufactured Gas (Coal Gas) Sites
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BROWNFIELDS DATABASES

US BROWNFIELDS	A Listing of Brownfields Sites
US INST CONTROL	Sites with Institutional Controls
Inst Control	Institutional Controls Registry
VCP	Voluntary Cleanup Sites
Brownfields	Brownfield Areas

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

FEDERAL ASTM STANDARD

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store , treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that

EXECUTIVE SUMMARY

move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-SQG list, as provided by EDR, and dated 05/20/2005 has revealed that there are 6 RCRA-SQG sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
SMITH & CO INC	2601 SW 196TH AVE	3	3
SMITH & CO INC	2540 SW 196TH AVE	3	5
WEEKLEY ASPHALT PAVING INC	20855 SW 36TH ST	4	17
BRIGHT BRASS & METAL COATING C	20911 JOHNSON ST #129	21	53
BLUE HAVEN CLEANER INC	20170 PINES BLVD	28	67
DYNO NOBEL FLORIDA INCORPORATE	4101 S.W. 196TH AVE.	35	76

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 12/31/2004 has revealed that there are 2 ERNS sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
5380 SW 208 LANE	5380 SW 208 LANE	13	41
OPA LOCKA AIRPORT	OPA LOCKA AIRPORT	38	91

STATE ASTM STANDARD

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Department of Environmental Protection's Facility Directory (Solid Waste Facilities).

A review of the SWF/LF list, as provided by EDR, has revealed that there are 4 SWF/LF sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
GULFSTREAM PARK RACING ASSOC.	19500 S.W. 36TH. STREET	7	21
BROWARD CNTY INTERIM CONTINGEN	U.S.27 / SHERIDAN STR	18	51
U.S.A. WASTE SYSTEMS, INC.	PEMBROKE ROAD / NW 20	31	70
REUTER RECYCLING OF FLORIDA I	5/8 MILES EAST OFF HWY	31	70

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Protection's PCTO1--Petroleum Contamination Detail Report.

A review of the LUST list, as provided by EDR, and dated 05/04/2005 has revealed that there are 4 LUST sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
SMITH & CO INC	2601 SW 196TH AVE	3	6

EXECUTIVE SUMMARY

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
SEMINOLE T STOP INC	4690 US HWY 27	10	22
SAWGRASS RECREATION PARK	5400 US HWY 27	14	41
PEMBROKE PINES CITY-HOLLY LAKE	21800 N 7TH MANOR	24	61

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Protection's SC102--Facility/Owner/Tank Report.

A review of the UST list, as provided by EDR, and dated 05/04/2005 has revealed that there are 15 UST sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
SEMINOLE T STOP INC	4690 US HWY 27	10	22
EVERGLADES HOLIDAY PARK	21940 GRIFFIN RD	12	38
EVERGLADES HOLIDAY PARK	21940 GRIFFIN RD	12	40
SAWGRASS RECREATION PARK	5400 US HWY 27	14	41
FL DEPT OF CORRECTIONS-BROWARD	20421 SW 72ND ST	17	48
GATOR FREIGHTWAYS INC	1000 NW 209TH AVE	21	53
PEMBROKE PINES CITY-HOLLY LAKE	21800 N 7TH MANOR	24	61
AT&T ANDYTOWN SOUTH	0 U S HWY 27 & PINES BL	25	65
AMERICAN TOWERS	US 27 HOLLYWOOD BLVD	26	65
MOBIL #02-TCX #18523	18495 MIRAMAR PKY	32	70
MOBIL STATION #02-TCX	18495 MIRAMAR PKWY	32	75
CONTINENTAL FLORIDA MATERIALS,	13791 NW 186 ST	39	93
FLORIDA ROCK INDUSTRIES, INC.	13801 NW 186 ST	39	94
AMARALTO CONCRETE	13851 NW 186 ST	39	96
SAWGRASS ROCK QUARRY	14005 NW 186 ST FACILIT	39	103

FEDERAL ASTM SUPPLEMENTAL

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 04/11/2005 has revealed that there are 16 FINDS sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
SMITH & CO INC	2601 SW 196TH AVE	3	3
SMITH & CO INC	2540 SW 196TH AVE	3	5
WEEKLEY ASPHALT PAVING INC	20855 SW 36TH ST	4	17
SOUTH FLORIDA WATER MANAGEMENT	21939 GRIFFIN ROAD	12	41
WEEKLEY ASPHALT PAVING, INC.	20701 STIRLING ROAD	15	47

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<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
CONTINENTAL HOMES/CHAPEL TRAIL	SW 208TH AVE & SHERIDAN	17	51
BRIGHT BRASS & METAL COATING C	20911 JOHNSON ST #129	21	53
BLUE HAVEN CLEANER INC	20170 PINES BLVD	28	67
REUTER RECYCLING OF FLORIDA, I	20701 PEMBROKE ROAD	31	70
THE SHOPS AT SUNSET LAKES	SW 184TH AVE & MIRAMAR	33	75
DYNO NOBEL FLORIDA INCORPORATE	4101 S.W. 196TH AVE.	35	76
METROMIX OF SOUTH FLORIDA PLAN	13791 NW 186 STREET	39	94
FLORIDA ROCK INDUSTRIES - HWY	13801 NW 186TH STREET	39	95
AMARALTO CONCRETE PLANT 2 (138	13851 NW 186 ST	39	96
COMMUNITY ASPHALT	14005 N.W. 186TH STREET	39	97
COMMUNITY ASPHALT CORPORATION		39	97

Mines: Mines Master Index File. The source of this database is the Dept. of Labor, Mine Safety and Health Administration.

A review of the MINES list, as provided by EDR, and dated 02/11/2005 has revealed that there are 3 MINES sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
BERGERON SAND & ROCK MINI		23	59
HARDRIVES COMPANY		29	68
THE LOWELL DUNN COMPANY		42	104

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 12/31/2003 has revealed that there are 6 FUDS sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
FT LAUDERDALE BMBTAR#1		1	3
FT LAUDERDALE BMBTAR#3		6	21
FT LAUDERDALE BMBTAR#5		8	22
FT LAUDERDALE BMBTAR#8		16	47
FT LAUDERDALE BMBTAR#7		34	76
FT LAUDERDALE BMBTAR#4		43	104

STATE OR LOCAL ASTM SUPPLEMENTAL

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Protection's SC102--Facility/Owner/Tank Report.

A review of the AST list, as provided by EDR, and dated 05/04/2005 has revealed that there are 18 AST sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
RICHARD A GRIFFIN SR FARMS INC	2650 SW 196TH AVE	3	4

EXECUTIVE SUMMARY

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
SMITH & CO INC	2601 SW 196TH AVE	3	6
WEEKLEY ASPHALT PAVING	20855 SW 36TH ST	5	17
SEMINOLE T STOP INC	4690 US HWY 27	10	22
SOUTH FL WATER MGMT DIST S-9	21939 GRIFFIN RD	12	33
SAWGRASS RECREATION PARK	5400 US HWY 27	14	41
FL DEPT OF CORRECTIONS-BROWARD	20421 SW 72ND ST	17	48
SUNBELT RENTALS	21100 SHERIDAN ST	18	51
GATOR FREIGHTWAYS INC	1000 NW 209TH AVE	21	53
PEMBROKE PINES,CITY-FUEL STATI	21451 JOHNSON ST	22	58
EPIK COMMUNICATIONS	21011 JOHNSON ST	23	59
SOUTH FILL INC	300 N 208TH AVE	27	66
REUTER RECYCLING OF FLORIDA IN	20701 PEMBROKE RD	31	69
DYNO NOBEL FLORIDA	4101 SW 196TH AVE	36	76
MIRAMAR ROCK	4104 SW 196TH AVE	36	84
CONTINENTAL FL MATERIALS MIAMI	13791 NW 186TH ST	39	92
FLORIDA ROCK INDUSTRIES INC	13801 NW 186TH ST	39	94
COMMUNITY ASPHALT CORPORATION		39	97

DRY CLEANERS: Florida Drycleaners list comes from the Department of Environmental Protection.

A review of the DRY CLEANERS list, as provided by EDR, has revealed that there is 1 DRY CLEANERS site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
BLUE HAVEN CLEANER INC	20170 PINES BLVD	28	67

ENFORCEMENT: The Miami-Dade County Enforcement Case Tracking System comes from the Department of Environmental Resources Management.

A review of the Miami-Dade Co. ENF list, as provided by EDR, has revealed that there are 2 Miami-Dade Co. ENF sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
SAWGRASS ROCK QUARRY	14005 NW 186 ST FACILIT	39	103
ARENCIBIA	17015 W OKEECHOBEE RD	41	104

NOTICE OF VIOLATION: NOV Facilities have received a notice of violation letter under Broward County Chapter 27 code.

A review of the BROWARD CO. NOV list, as provided by EDR, has revealed that there are 3 BROWARD CO. NOV sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
JOSE LUIS RIVERA AND SOFIA RIV	0 SW 195 TER / GRIFFI	9	22
BRIDGES ENTERPRISES/WASTE MAGI	21940 GRIFFIN RD	12	41
HAMILTON M. & BLANCHE C. FORMA	20000 SHERIDAN ST	19	52

EXECUTIVE SUMMARY

EDIEAR: Broward County Ediear.

A review of the Broward Co. EDIEAR list, as provided by EDR, has revealed that there are 2 Broward Co. EDIEAR sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
SEMINOLE T STOP INC	4690 US HWY 27	10	22
PEMBROKE PINES CITY	21800 N 7 MNR	24	60

HAZ MAT: HM Sites use or store greater than 25 Gallons of hazardous materials per month.

A review of the BROWARD CO. HM list, as provided by EDR, has revealed that there are 21 BROWARD CO. HM sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
ENVIRONMENTAL CARE INC	20200 SADDLE CLUB RD	2	3
AT&T FL32-WESTON	2750 SW 196 AVE	3	3
RICHARD A GRIFFIN SR FARMS INC	2650 SW 196 AVE	3	4
NEXTEL TOWER FL 1681G-WESTON	20002 SW 26 ST	3	5
BELLSOUTH MOBILITY XYZ	20002 SW 26 ST	3	5
SBA TOWERS, INC	20002 SW 26 ST	3	5
SMITH & COMPANY INC	2601 SW 196 AVE	3	6
WEEKLEY ASPHALT PAVING INC	20855 SW 36 ST	5	17
FLORIDA FOLIAGE GROWERS INC	20600 GRIFFIN RD	11	33
SFWM D PUMP STATION S-9	21939 GRIFFIN RD	12	38
BROWARD CORRECTIONAL INSTITUTN	20421 SW 72 ST	17	48
EVERGLADES WORKCENTER	20421 SW 72 ST	17	48
LINDER INDUSTRIAL MACHINERY CO	20900 TAFT ST	20	53
MASTER TECH AUTO REPAIR INC	911 NW 209 AVE	21	53
GATOR FREIGHTWAYS INC	1000 NW 209TH AVE	21	53
MIAMI MANAGEMENT MAINT INC	21011 JOHNSON ST	23	60
AT&T ANDYTOWN SOUTH	0 U S HWY 27 & PINES BL	25	65
PEMBROKE PINES ROSE G PRICE P	901 NW 208 AVE	27	67
BLUE HAVEN CLEANER INC	20170 PINES BLVD	28	67
MIRAMAR, SUNSET LAKES TEMP F S	2700 SW 186 AVE	30	68
REUTER RECYCLING OF FLORIDA	20701 PEMBROKE RD	31	69

Florida Wastewater: Domestic and Industrial Wastewater Facilities

A review of the WASTEWATER list, as provided by EDR, has revealed that there are 3 WASTEWATER sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
CONTINENTAL FLORIDA MATERIALS,	13791 NW 186 ST	39	93
FLORIDA ROCK INDUSTRIES - HWY	13801 NW 186TH STREET	39	95
AMARALTO CONCRETE	13851 NW 186 ST	39	96

EXECUTIVE SUMMARY

AIR PERMITS: The AIR PERMITS database contains facilities that discharge to sanitary sewers and are therefore subject to federal pre-treatment standards.

A review of the Miami-Dade Co. AP list, as provided by EDR, has revealed that there are 4 Miami-Dade Co. AP sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
<i>CONTINENTAL FLORIDA MATERIALS,</i>	<i>13791 NW 186 ST</i>	<i>39</i>	<i>93</i>
<i>FLORIDA ROCK INDUSTRIES, INC.</i>	<i>13801 NW 186 ST</i>	<i>39</i>	<i>94</i>
<i>AMARALTO CONCRETE</i>	<i>13851 NW 186 ST</i>	<i>39</i>	<i>96</i>
<i>SAWGRASS ROCK QUARRY</i>	<i>14005 NW 186 ST FACILIT</i>	<i>39</i>	<i>103</i>

IND WASTE : Miami-Dade County Industrial Waste list comes from the Department of Environmental Resources Management.

A review of the Miami-Dade Co. IW2-4 list, as provided by EDR, has revealed that there are 6 Miami-Dade Co. IW2-4 sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
JOSE ELIO AND AIDA ROMAN	18200 W OKEECHOBEE RD	37	91
<i>CONTINENTAL FLORIDA MATERIALS,</i>	<i>13791 NW 186 ST</i>	<i>39</i>	<i>93</i>
<i>FLORIDA ROCK INDUSTRIES, INC.</i>	<i>13801 NW 186 ST</i>	<i>39</i>	<i>94</i>
<i>AMARALTO CONCRETE</i>	<i>13851 NW 186 ST</i>	<i>39</i>	<i>96</i>
<i>SAWGRASS ROCK QUARRY</i>	<i>14005 NW 186 ST FACILIT</i>	<i>39</i>	<i>103</i>
SOUTH FLORIDA TEST SERVICE	17301 OKEECHOBEE RD	40	104

EXECUTIVE SUMMARY

Please refer to the end of the findings report for unmapped orphan sites due to poor or inadequate address information.

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Total Plotted</u>
<u>FEDERAL ASTM STANDARD</u>	
NPL	0
Proposed NPL	0
CERCLIS	0
CERC-NFRAP	0
CORRACTS	0
RCRA TSD	0
RCRA Lg. Quan. Gen.	0
RCRA Sm. Quan. Gen.	6
ERNS	2
<u>STATE ASTM STANDARD</u>	
State Haz. Waste	0
State Landfill	4
LUST	4
UST	15
INDIAN UST	0
VCP	0
INDIAN LUST	0
<u>FEDERAL ASTM SUPPLEMENTAL</u>	
CONSENT	0
ROD	0
Delisted NPL	0
FINDS	16
HMIRS	0
MLTS	0
MINES	3
NPL Liens	0
PADS	0
DOD	0
UMTRA	0
ODI	0
FUDS	6
INDIAN RESERV	0
US ENG CONTROLS	0
RAATS	0
TRIS	0
TSCA	0
SSTS	0
FTTS	0
<u>STATE OR LOCAL ASTM SUPPLEMENTAL</u>	
AST	18

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Total Plotted</u>
FL Sites	0
FL Cattle Dip. Vats	0
Miami-Dade Co. GTO	0
DEDB	0
PRIORITYCLEANERS	0
SPILLS	0
ENG CONTROLS	0
Dry Cleaners	1
Miami-Dade Co. ENF	2
Broward Co. NOV	3
Broward Co. EDIEAR	2
BROWARD CO. HM	21
Wastewater	3
Miami-Dade Co. SPILL	0
Miami-Dade Co. HWS	0
Miami-Dade Co. AP	4
Miami-Dade Co. IWP	0
Miami-Dade Co. IW2-4	6

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas	0
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BROWNFIELDS DATABASES

US BROWNFIELDS	0
US INST CONTROL	0
Inst Control	0
VCP	0
Brownfields	0

NOTES:

Sites may be listed in more than one database

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

**1 FT LAUDERDALE BMBTAR#1 FUDS 1007212676
 N/A**

FORT LAUDERDALE, FL

FUDS:

Federal Facility ID: FL9799F7133
 Facility Name: FT LAUDERDALE BMBTAR#1
 City: FORT LAUDERDALE
 State: FL
 EPA Region: 4
 County: BROWARD
 Congressional District: 23
 US Army District: Jacksonville District (SAJ)
 Fiscal Year: 2003
 First Name: EUNICE
 Last name: FORD
 Phone: 904-232-2235
 Inst ID: 55632
 CTC: Not reported
 RAB: Not reported

**2 ENVIRONMENTAL CARE INC BROWARD CO. HM S105213219
 20200 SADDLE CLUB RD N/A
 WESTON, FL 33327**

HAZMAT:

Document Id: 0781

**3 AT&T FL32-WESTON BROWARD CO. HM S105212626
 2750 SW 196 AVE N/A
 WESTON, FL 33332**

HAZMAT:

Document Id: 4813

**3 SMITH & CO INC RCRA-SQG 1004682727
 2601 SW 196TH AVE FINDS FL0001020718
 FORT LAUDERDALE, FL 33332**

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SMITH & CO INC (Continued)

1004682727

RCRAInfo:

Owner: IVAN NESBIT, MGR
 (305) 389-4990

EPA ID: FL0001020718

Contact: IVAN NESBIT
 (305) 389-4990

Classification: Small Quantity Generator
 TSD Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

**3 RICHARD A GRIFFIN SR FARMS INC
 2650 SW 196 AVE
 FT LAUDERDALE, FL 33332**

**BROWARD CO. HM S105213228
 N/A**

HAZMAT:

Document Id: 0181

**3 RICHARD A GRIFFIN SR FARMS INC
 2650 SW 196TH AVE
 FORT LAUDERDAL, FL 33332**

**AST A100179867
 N/A**

AST:

Facility ID:	9802277	Tank ID:	1
Facility Phone:	(954) 389-0003		
Facility Type:	Agricultural		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	Agricultural	Content Description:	Unleaded Gas
DEP Contrctr Own:	No	Facility Status:	CLOSED
Substance:			
Description:	Unleaded gas		
Gallons:	2000		
Category:	Vehicular Fuels		
Regulation Began:	1986-07-01		
Tank Status:	Removed	Status Date:	01-NOV-2002
Install Date:	01-MAR-1994		
Owner Id:	8916	Owner Phone:	(954) 389-0003
Owner Name:	RICHARD A GRIFFIN SR FARMS INC		
Owner Contact:	DANNY GRIFFIN		
Owner Address:	2650 SW 196TH AVE FT LAUDERDALE, FL 33332		

Tank Construction:

Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:

Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

RICHARD A GRIFFIN SR FARMS INC (Continued)

A100179867

Tank Piping:
Piping Desc: Not reported
Category: Not reported
Description: Not reported

3 SMITH & CO INC
2540 SW 196TH AVE
FORT LAUDERDALE, FL 33332

RCRA-SQG 1001111987
FINDS FLR000017632

RCRAInfo:
Owner: ALBERTO BRAVO, SHOP FOREMAN
(305) 389-4990
EPA ID: FLR000017632
Contact: ALBERTO BRAVO
(305) 389-4990
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

3 NEXTEL TOWER FL 1681G-WESTON
20002 SW 26 ST
WESTON, FL 33326

BROWARD CO. HM S105212845
N/A

HAZMAT:
Document Id: 4812

3 BELLSOUTH MOBILITY XYZ
20002 SW 26 ST
WESTON, FL 33326

BROWARD CO. HM S103298363
N/A

HAZMAT:
Document Id: 4812

3 SBA TOWERS, INC
20002 SW 26 ST
WESTON, FL 33326

BROWARD CO. HM S104521007
N/A

HAZMAT:
Document Id: 4812

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site
 Database(s)
 EDR ID Number
 EPA ID Number

3 SMITH & COMPANY INC BROWARD CO. HM S103298079
2601 SW 196 AVE N/A
WESTON, FL 33332

HAZMAT:
 Document Id: 1799

3 SMITH & CO INC LUST S104412080
2601 SW 196TH AVE AST N/A
WESTON, FL 33327

LUST:
 Facility ID: 9601850 Region: STATE
 Facility District: Southeast District
 Section: Not reported Township: Not reported
 Range: Not reported Lat/long: 26° 3' 45.000000" / 80° 15' 58.000000"
 Facility Status: CLOSED Facility Type: C - Fuel user/Non-retail -
 Operator: STEVE SMITH
 Facility Phone: (954) 370-9704
 Related Party: SMITH & CO INC
 Related Party Addr: 1200 WESTON RD 2ND FLOOR
 WESTON, FL 33327
 RP Bad Address: Yes
 Related Party ID: 44292 Related Party Role: ACCOUNT OWNER
 Related Prty Contact: MR STEVE SMITH PRES
 Related Party Phone: (954) 370-9704 RP Phone Ext: Not reported
 Related Party Begin: 08-30-1996
 Name Update: 11-13-1998 Address Update: 07-14-1999
 Facility Cleanup Score: 0
 Facility Cleanup Rank: 0
 Score Effective Date: Not reported
 Score When Ranked: 0
 Feature: Not reported
 Method: AGPS
 Datum: 0
 Discharge Date: 12-04-1999
 Pct Discharge Combined With: Not reported
 Information Source: D - DISCHARGE NOTIFICATION
 Other Source Description: Not reported
 Score Effective Date: Not reported
 Score: 0
 Cleanup Required : -
 Discharge Cleanup Status : NFA - NFA COMPLETE
 Disch Cleanup Status Dt : 05-15-2001
 Cleanup Work Status : COMPLETED
 Eligibility Indicator : I
 Site Manager : GOMOLKA_J
 Site Mgr End Date : 05-24-2001
 Tank Office : PCLP6 - Broward County
 Rank : 0
 Facility Status : Not reported
 Facility Type : Not reported
 Discharge Date : Not reported
 Discharge Combined With : Not reported
 Cleanup Required : Not reported
 Discharge Cleanup Status : Not reported
 Disch Cleanup Status Dt : Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

SMITH & CO INC (Continued)

S104412080

Cleanup Work Status :	Not reported
Eligibility Indicator :	Not reported
Site Manager :	Not reported
Site Mgr End Date :	Not reported
Tank Office :	Not reported
RAP Task ID:	Not reported
RAP Cleanup Responsible ID:	Not reported
RAP Funding Elig Type:	Not reported
RAP Last Order Approved:	Not reported
RAP Actual Completion Date:	Not reported
RAP Payment Date:	Not reported
RAP Actual Cost:	Not reported
RA Task ID:	Not reported
RA Actual Cost:	Not reported
RA Cleanup Responsible:	Not reported
RA Funding Elig Type:	Not reported
Ra Years to Complete:	Not reported
SRC Completion Status:	Not reported
SRC Completion Status Dt:	Not reported
SRC Action Type:	Not reported
SRC Submit Date:	Not reported
SRC Review Date:	Not reported
SRC Issue Date:	Not reported
SRC Comment:	Not reported
SA ID:	Not reported
SA Cleanup Responsible:	Not reported
SA Actual Completion Date:	Not reported
SA Payment Date:	Not reported
SA Funding Elig Type:	Not reported
SA Actual Cost:	Not reported
SR Task ID:	Not reported
SR Cleanup Responsible:	Not reported
SR Oral Date:	Not reported
SR Written Date:	Not reported
Free Product Removal:	Not reported
Soil Removal:	Not reported
Soil Tonnage Removed:	Not reported
Soil Treatment:	Not reported
Other Treatment:	Not reported
SR Actual Completion Date:	Not reported
SR Funding Elig Type:	Not reported
SR Payment Date:	Not reported
SR Actual Cost:	Not reported
SR Alternate Procedure Comments:	Not reported
SR Alternate Procedure Status:	Not reported
SR Alternate Procedure Status Date:	Not reported
SR Alternate Procedure Recieved:	Not reported
Score :	Not reported
Score Ranked :	Not reported
Score Effective :	Not reported
Rank :	Not reported
Facility Status :	Not reported
Facility Type :	Not reported
Facility Phone :	Not reported
Operator :	Not reported
Name Update :	Not reported
Address Update :	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

SMITH & CO INC (Continued)

S104412080

Primary Responsible Party Id : Not reported
 Primary Responsible Party Role : Not reported
 Responsible Party Begin Date : Not reported
 Responsible Party Name : Not reported
 District : Not reported
 Sec Facility Address : Not reported
 Lat / Long : Not reported
 Feature : Not reported
 Method : Not reported
 Datum : Not reported
 Section : Not reported
 Township : Not reported
 Range : Not reported
 Responsible Party Address: Not reported
 Responsible Party Phone : Not reported
 Responsible Party Extension : Not reported
 Contact : Not reported
 Responsible Party Bad Address : Not reported

 District : Not reported
 Facility Id : Not reported
 Discharge Date : Not reported
 Disc Combined With : Not reported
 Cleanup Required : Not reported
 Disch Cleanup Status : Not reported
 Disch Cleanup Status Dt : Not reported
 Cleanup Work Status : Not reported
 Information Source : Not reported
 Other Source : Not reported
 Elig Indicator : Not reported
 Site Manager : Not reported
 Site Manager End Date : Not reported
 Tank Office : Not reported
 Score : Not reported
 Score Effective Date : Not reported
 Rank : Not reported
 Contaminated Drinking Wells : Not reported
 Contaminated Monitoring Wells : Not reported
 Contaminated Soil : Not reported
 Contaminated Surface Water : Not reported
 Contaminated Ground Water : Not reported
 Pollutant : Not reported
 Other Description : Not reported
 Gallons Discharged : Not reported

 District : Not reported
 County Code : Not reported
 Facility Id : Not reported
 Discharge Date : Not reported
 Discharge Combined With : Not reported
 Cleanup Required : Not reported
 Discharge Cleanup Status : Not reported
 Disc Cleanup Status Date : Not reported
 Cleanup Work Status : Not reported
 Information Source : Not reported
 Other Source : Not reported
 Application Received Dt : Not reported
 Cleanup Program : Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SMITH & CO INC (Continued)

S104412080

Eligibility Status : Not reported
 Elig Status Date : Not reported
 Letter Of Intent Dt : Not reported
 Elig Letter Sent : Not reported
 Redetermined : Not reported
 Inspection Date : Not reported
 Site Manager : Not reported
 Site Manager End Date : Not reported
 Tank Office : Not reported
 Score : Not reported
 Score Effective Date : Not reported
 Rank : Not reported
 Deductible Amount : Not reported
 Deductible Paid To Date : Not reported
 Co-pay Amount : Not reported
 Co-pay Paid To Date : Not reported
 Cap Amount : Not reported
 Cap To Date : Not reported

AST:

Facility ID: 9601850
 Facility Phone: (954) 370-9704
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No
 Substance:
 Description: New/lube oil
 Gallons: 500
 Category: Petroleum Pollutant
 Regulation Began:1991-04-01
 Tank Status: Removed
 Install Date: 01-MAR-2000
 Owner Id: 44292
 Owner Name: SMITH & CO INC
 Owner Contact: MR STEVE SMITH PRES
 Owner Address: 1200 WESTON RD 2ND FLOOR
 WESTON, FL 33327

Tank ID: OT4
 Vessel Indicator: TANK
 Content Description: New/Lube Oil
 Facility Status: CLOSED
 Status Date: 01-MAR-2001
 Owner Phone: (954) 370-9704

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9601850
 Facility Phone: (954) 370-9704
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No

Tank ID: OT5
 Vessel Indicator: TANK
 Content Description: New/Lube Oil
 Facility Status: CLOSED

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 Database(s) EPA ID Number

SMITH & CO INC (Continued)

S104412080

Substance:

Description: New/lube oil
 Gallons: 500
 Category: Petroleum Pollutant
 Regulation Began:1991-04-01
 Tank Status: Removed
 Install Date: Not reported
 Owner Id: 44292
 Owner Name: SMITH & CO INC
 Owner Contact: MR STEVE SMITH PRES
 Owner Address: 1200 WESTON RD 2ND FLOOR
 WESTON, FL 33327

Status Date: 01-MAR-2001
 Owner Phone: (954) 370-9704

Tank Construction:

Tank Id: Not reported
 Construction Desc:Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:

Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:

Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9601850
 Facility Phone: (954) 370-9704
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No

Tank ID: OT3
 Vessel Indicator: TANK
 Content Description: New/Lube Oil
 Facility Status: CLOSED

Substance:

Description: New/lube oil
 Gallons: 500
 Category: Petroleum Pollutant
 Regulation Began:1991-04-01
 Tank Status: Removed
 Install Date: 01-MAR-2000
 Owner Id: 44292
 Owner Name: SMITH & CO INC
 Owner Contact: MR STEVE SMITH PRES
 Owner Address: 1200 WESTON RD 2ND FLOOR
 WESTON, FL 33327

Status Date: 01-MAR-2001
 Owner Phone: (954) 370-9704

Tank Construction:

Tank Id: Not reported
 Construction Desc:Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:

Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:

Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SMITH & CO INC (Continued)

S104412080

Facility ID:	9601850	Tank ID:	OT2
Facility Phone:	(954) 370-9704		
Facility Type:	Fuel User / Non-retail		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	Fuel user/Non-retail	Content Description:	New/Lube Oil
DEP Contrctr Own:	No	Facility Status:	CLOSED
Substance:			
Description:	New/lube oil		
Gallons:	500		
Category:	Petroleum Pollutant		
Regulation Began:	1991-04-01		
Tank Status:	Removed	Status Date:	01-MAR-2001
Install Date:	01-MAR-2000		
Owner Id:	44292	Owner Phone:	(954) 370-9704
Owner Name:	SMITH & CO INC		
Owner Contact:	MR STEVE SMITH PRES		
Owner Address:	1200 WESTON RD 2ND FLOOR WESTON, FL 33327		

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID:	9601850	Tank ID:	OT1
Facility Phone:	(954) 370-9704		
Facility Type:	Fuel User / Non-retail		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	Fuel user/Non-retail	Content Description:	New/Lube Oil
DEP Contrctr Own:	No	Facility Status:	CLOSED
Substance:			
Description:	New/lube oil		
Gallons:	500		
Category:	Petroleum Pollutant		
Regulation Began:	1991-04-01		
Tank Status:	Removed	Status Date:	01-MAR-2001
Install Date:	01-MAR-2000		
Owner Id:	44292	Owner Phone:	(954) 370-9704
Owner Name:	SMITH & CO INC		
Owner Contact:	MR STEVE SMITH PRES		
Owner Address:	1200 WESTON RD 2ND FLOOR WESTON, FL 33327		

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SMITH & CO INC (Continued)

S104412080

Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported
 Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9601850
 Facility Phone: (954) 370-9704
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No
 Substance:
 Description: Diesel-generator,pump
 Gallons: 2000
 Category: Petroleum Pollutant
 Regulation Began:1991-04-01
 Tank Status: Removed
 Install Date: 01-JAN-2000
 Owner Id: 44292
 Owner Name: SMITH & CO INC
 Owner Contact: MR STEVE SMITH PRES
 Owner Address: 1200 WESTON RD 2ND FLOOR
 WESTON, FL 33327

Tank ID: 599
 Vessel Indicator: TANK
 Content Description: Generator/Pump Diesel
 Facility Status: CLOSED

Tank Construction:
 Tank Id: Not reported
 Construction Desc:Not reported
 Category: Not reported
 Description: Not reported
 Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported
 Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Status Date: 01-MAR-2001
 Owner Phone: (954) 370-9704

Facility ID: 9601850
 Facility Phone: (954) 370-9704
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No
 Substance:
 Description: Diesel-generator,pump
 Gallons: 10000
 Category: Petroleum Pollutant
 Regulation Began:1991-04-01
 Tank Status: Removed
 Install Date: 01-JAN-2000
 Owner Id: 44292
 Owner Name: SMITH & CO INC
 Owner Contact: MR STEVE SMITH PRES
 Owner Address: 1200 WESTON RD 2ND FLOOR

Tank ID: 2090
 Vessel Indicator: TANK
 Content Description: Generator/Pump Diesel
 Facility Status: CLOSED

Status Date: 01-MAR-2001
 Owner Phone: (954) 370-9704

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SMITH & CO INC (Continued)

S104412080

WESTON, FL 33327

Tank Construction:

Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:

Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:

Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9601850
 Facility Phone: (954) 370-9704
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No
 Substance:
 Description: Diesel-generator,pump
 Gallons: 10000
 Category: Petroleum Pollutant
 Regulation Began: 1991-04-01
 Tank Status: Removed
 Install Date: 01-JAN-2000
 Owner Id: 44292
 Owner Name: SMITH & CO INC
 Owner Contact: MR STEVE SMITH PRES
 Owner Address: 1200 WESTON RD 2ND FLOOR
 WESTON, FL 33327

Tank ID: 2098
 Vessel Indicator: TANK
 Content Description: Generator/Pump Diesel
 Facility Status: CLOSED

Status Date: 01-MAR-2001

Owner Phone: (954) 370-9704

Tank Construction:

Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:

Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:

Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9601850
 Facility Phone: (954) 370-9704
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No
 Substance:
 Description: Waste oil
 Gallons: 2500
 Category: Petroleum Pollutant

Tank ID: WO1
 Vessel Indicator: TANK
 Content Description: Waste Oil
 Facility Status: CLOSED

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

SMITH & CO INC (Continued)

S104412080

Regulation Began:1991-04-01
 Tank Status: Removed Status Date: 01-MAR-2001
 Install Date: 01-NOV-1995
 Owner Id: 44292 Owner Phone: (954) 370-9704
 Owner Name: SMITH & CO INC
 Owner Contact: MR STEVE SMITH PRES
 Owner Address: 1200 WESTON RD 2ND FLOOR
 WESTON, FL 33327

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9601850 Tank ID: 1
 Facility Phone: (954) 370-9704
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND Vessel Indicator: TANK
 Type Description: Fuel user/Non-retail Content Description: Vehicular Diesel
 DEP Contrctr Own: No Facility Status: CLOSED

Substance:
 Description: Vehicular diesel
 Gallons: 8000
 Category: Vehicular Fuels

Regulation Began:1986-07-01
 Tank Status: Removed Status Date: 01-MAR-2001
 Install Date: 01-AUG-1995
 Owner Id: 44292 Owner Phone: (954) 370-9704
 Owner Name: SMITH & CO INC
 Owner Contact: MR STEVE SMITH PRES
 Owner Address: 1200 WESTON RD 2ND FLOOR
 WESTON, FL 33327

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9601850 Tank ID: 3
 Facility Phone: (954) 370-9704
 Facility Type: Fuel User / Non-retail

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

SMITH & CO INC (Continued)

S104412080

Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	Fuel user/Non-retail	Content Description:	Vehicular Diesel
DEP Contrctr Own:	No	Facility Status:	CLOSED
Substance:			
Description:	Vehicular diesel		
Gallons:	6000		
Category:	Vehicular Fuels		
Regulation Began:	1986-07-01		
Tank Status:	Removed	Status Date:	01-MAR-2001
Install Date:	01-AUG-1995		
Owner Id:	44292	Owner Phone:	(954) 370-9704
Owner Name:	SMITH & CO INC		
Owner Contact:	MR STEVE SMITH PRES		
Owner Address:	1200 WESTON RD 2ND FLOOR WESTON, FL 33327		
Tank Construction:			
Tank Id:	Not reported		
Construction Desc:	Not reported		
Category:	Not reported		
Description:	Not reported		
Petro Monitoring:			
Monitoring Desc:	Not reported		
Category:	Not reported		
Description:	Not reported		
Tank Piping:			
Piping Desc:	Not reported		
Category:	Not reported		
Description:	Not reported		
Facility ID:	9601850	Tank ID:	2
Facility Phone:	(954) 370-9704		
Facility Type:	Fuel User / Non-retail		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	Fuel user/Non-retail	Content Description:	Vehicular Diesel
DEP Contrctr Own:	No	Facility Status:	CLOSED
Substance:			
Description:	Vehicular diesel		
Gallons:	6000		
Category:	Vehicular Fuels		
Regulation Began:	1986-07-01		
Tank Status:	Removed	Status Date:	01-MAR-2001
Install Date:	01-AUG-1995		
Owner Id:	44292	Owner Phone:	(954) 370-9704
Owner Name:	SMITH & CO INC		
Owner Contact:	MR STEVE SMITH PRES		
Owner Address:	1200 WESTON RD 2ND FLOOR WESTON, FL 33327		
Tank Construction:			
Tank Id:	Not reported		
Construction Desc:	Not reported		
Category:	Not reported		
Description:	Not reported		
Petro Monitoring:			
Monitoring Desc:	Not reported		
Category:	Not reported		
Description:	Not reported		
Tank Piping:			

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

SMITH & CO INC (Continued)

S104412080

Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9601850
 Facility Phone: (954) 370-9704
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No
 Substance:
 Description: New/lube oil
 Gallons: 1000
 Category: Petroleum Pollutant
 Regulation Began:1991-04-01
 Tank Status: Removed
 Install Date: 01-AUG-1995
 Owner Id: 44292
 Owner Name: SMITH & CO INC
 Owner Contact: MR STEVE SMITH PRES
 Owner Address: 1200 WESTON RD 2ND FLOOR
 WESTON, FL 33327

Tank ID: 5

 Vessel Indicator: TANK
 Content Description: New/Lube Oil
 Facility Status: CLOSED

Tank Construction:
 Tank Id: Not reported
 Construction Desc:Not reported
 Category: Not reported
 Description: Not reported

Status Date: 01-MAR-2001

 Owner Phone: (954) 370-9704

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9601850
 Facility Phone: (954) 370-9704
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No
 Substance:
 Description: New/lube oil
 Gallons: 1000
 Category: Petroleum Pollutant
 Regulation Began:1991-04-01
 Tank Status: Removed
 Install Date: 01-AUG-1995
 Owner Id: 44292
 Owner Name: SMITH & CO INC
 Owner Contact: MR STEVE SMITH PRES
 Owner Address: 1200 WESTON RD 2ND FLOOR
 WESTON, FL 33327

Tank ID: OT6

 Vessel Indicator: TANK
 Content Description: New/Lube Oil
 Facility Status: CLOSED

Tank Construction:
 Tank Id: Not reported
 Construction Desc:Not reported

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)Site		Database(s)	EPA ID Number

SMITH & CO INC (Continued)

S104412080

Category: Not reported
 Description: Not reported
 Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported
 Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

4 WEEKLEY ASPHALT PAVING INC
20855 SW 36TH ST
FORT LAUDERDALE, FL 33332

RCRA-SQG 1001023616
FINDS FLR000005652

RCRAInfo:
 Owner: DANNY CALLAHAN, GEN SUPT
 (305) 389-5311
 EPA ID: FLR000005652
 Contact: DANNY CALLAHAN
 (305) 389-5311
 Classification: Small Quantity Generator
 TSD Activities: Not reported
 Violation Status: No violations found

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 AEROMETRIC INFORMATION RETRIEVAL SYSTEM/AIRS FACILITY SYSTEM
 NATIONAL EMISSIONS INVENTORY
 RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

5 WEEKLEY ASPHALT PAVING INC
20855 SW 36 ST
WESTON, FL 33332

BROWARD CO. HM S104521096
N/A

HAZMAT:
 Document Id: 3531

5 WEEKLEY ASPHALT PAVING
20855 SW 36TH ST
WESTON, FL 33332

AST A100202704
N/A

AST:		
Facility ID:	9801974	Tank ID: 4
Facility Phone:	(954) 389-5311	
Facility Type:	Fuel User / Non-retail	
Tank Location:	ABOVEGROUND	Vessel Indicator: TANK
Type Description:	Fuel user/Non-retail	Content Description: Vehicular Diesel
DEP Contrctr Own:	No	Facility Status: OPEN
Substance:		
Description:	Vehicular diesel	
Gallons:	12000	
Category:	Vehicular Fuels	

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

WEEKLEY ASPHALT PAVING (Continued)

A100202704

Regulation Began:1986-07-01
 Tank Status: In service Status Date: 01-JAN-1998
 Install Date: 01-JAN-1998
 Owner Id: 52664 Owner Phone: (954) 389-5311
 Owner Name: WEEKLEY ASPHALT PAVING INC
 Owner Contact: WEEKLEY, WAYNE
 Owner Address: 20855 S W 36TH ST
 WESTON, FL 33332

Tank Construction:
 Tank Id: 4
 Construction Desc:AST containment
 Category: Secondary Containment
 Description: CnCRT, synt mat; offsite clay bneth AST & cnmt area

Tank Id: 4
 Construction Desc:Fiberglass clad steel
 Category: Primary Construction
 Description: Fiberglass Clad steel

Tank Id: 4
 Construction Desc:Spill containment bucket
 Category: Overfill/Spill
 Description: Spill containment bucket

Petro Monitoring:
 Monitoring Desc: Visual inspection of ASTs
 Category: Q
 Description: Q

Monitoring Desc: Not required
 Category: Site/General
 Description: Not required - See Rule For Exemptions

Tank Piping:
 Piping Desc: Abv, no soil contact
 Category: Miscellaneous Attributes
 Description: Aboveground-no contact with soil

Piping Desc: Pipe trench liner
 Category: Secondary Containment
 Description: Syn or box/trench liner in piping excvtn/cnmt area

Piping Desc: Approved synthetic material
 Category: Primary Construction
 Description: Approved synthetic material

Facility ID:	9801974	Tank ID:	3
Facility Phone:	(954) 389-5311		
Facility Type:	Fuel User / Non-retail		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	Fuel user/Non-retail	Content Description:	Waste Oil
DEP Contrctr Own:	No	Facility Status:	OPEN
Substance:			
Description:	Waste oil		
Gallons:	1000		
Category:	Petroleum Pollutant		
Regulation Began:	1991-04-01		
Tank Status:	In service	Status Date:	01-JAN-1998
Install Date:	01-JAN-1998		

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

WEEKLEY ASPHALT PAVING (Continued)

A100202704

Owner Id: 52664 Owner Phone: (954) 389-5311
 Owner Name: WEEKLEY ASPHALT PAVING INC
 Owner Contact: WEEKLEY, WAYNE
 Owner Address: 20855 S W 36TH ST
 WESTON, FL 33332

Tank Construction:
 Tank Id: 3
 Construction Desc: Steel
 Category: Primary Construction
 Description: Steel

Tank Id: 3
 Construction Desc: AST containment
 Category: Secondary Containment
 Description: Cn crt, synt mat; offsite clay bneth AST & cnmt area

Petro Monitoring:
 Monitoring Desc: Visual inspection of ASTs
 Category: Q
 Description: Q

Monitoring Desc: Not required
 Category: Site/General
 Description: Not required - See Rule For Exemptions

Tank Piping:
 Piping Desc: Abv, no soil contact
 Category: Miscellaneous Attributes
 Description: Aboveground-no contact with soil

Piping Desc: Steel/galvanized metal
 Category: Primary Construction
 Description: Steel or Galvanized Metal

Facility ID: 9801974
 Facility Phone: (954) 389-5311
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No

Tank ID: 2
 Vessel Indicator: TANK
 Content Description: Misc Petrol-Based Product
 Facility Status: OPEN

Substance:
 Description: Misc. petrol-based product
 Gallons: 20000
 Category: Petroleum Pollutant
 Regulation Began: 1991-04-01

Tank Status: In service Status Date: 01-APR-1995
 Install Date: 01-JAN-1998
 Owner Id: 52664 Owner Phone: (954) 389-5311
 Owner Name: WEEKLEY ASPHALT PAVING INC
 Owner Contact: WEEKLEY, WAYNE
 Owner Address: 20855 S W 36TH ST
 WESTON, FL 33332

Tank Construction:
 Tank Id: 2
 Construction Desc: Fiberglass clad steel
 Category: Primary Construction
 Description: Fiberglass Clad steel

Tank Id: 2

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

WEEKLEY ASPHALT PAVING (Continued)

A100202704

Construction Desc: Spill containment bucket
 Category: Overfill/Spill
 Description: Spill containment bucket

Tank Id: 2
 Construction Desc: AST containment
 Category: Secondary Containment
 Description: Cnct, synt mat; offsite clay bneth AST & cnmt area

Petro Monitoring:
 Monitoring Desc: Visual inspection of ASTs
 Category: Q
 Description: Q

Monitoring Desc: Not required
 Category: Site/General
 Description: Not required - See Rule For Exemptions

Tank Piping:
 Piping Desc: Abv, no soil contact
 Category: Miscellaneous Attributes
 Description: Aboveground-no contact with soil

Piping Desc: Pipe trench liner
 Category: Secondary Containment
 Description: Syn or box/trench liner in piping excvtrn/cnmt area

Piping Desc: Approved synthetic material
 Category: Primary Construction
 Description: Approved synthetic material

Facility ID: 9801974
 Facility Phone: (954) 389-5311
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No

Tank ID: 1
 Vessel Indicator: TANK
 Content Description: Vehicular Diesel
 Facility Status: OPEN

Substance:
 Description: Vehicular diesel
 Gallons: 10000
 Category: Vehicular Fuels
 Regulation Began: 1986-07-01

Tank Status: In service
 Install Date: 01-JAN-1998
 Owner Id: 52664
 Owner Name: WEEKLEY ASPHALT PAVING INC
 Owner Contact: WEEKLEY, WAYNE
 Owner Address: 20855 S W 36TH ST
 WESTON, FL 33332

Status Date: 01-APR-1995
 Owner Phone: (954) 389-5311

Tank Construction:
 Tank Id: 1
 Construction Desc: Fiberglass clad steel
 Category: Primary Construction
 Description: Fiberglass Clad steel

Tank Id: 1
 Construction Desc: Spill containment bucket
 Category: Overfill/Spill
 Description: Spill containment bucket

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

WEEKLEY ASPHALT PAVING (Continued)

A100202704

Tank Id: 1
 Construction Desc: AST containment
 Category: Secondary Containment
 Description: Cn crt, synt mat; offsite clay bneth AST & cnmt area
 Petro Monitoring:
 Monitoring Desc: Visual inspection of ASTs
 Category: Q
 Description: Q

 Monitoring Desc: Not required
 Category: Site/General
 Description: Not required - See Rule For Exemptions
 Tank Piping:
 Piping Desc: Abv, no soil contact
 Category: Miscellaneous Attributes
 Description: Aboveground-no contact with soil

 Piping Desc: Pipe trench liner
 Category: Secondary Containment
 Description: Syn or box/trench liner in piping excvtn/cnmt area

 Piping Desc: Approved synthetic material
 Category: Primary Construction
 Description: Approved synthetic material

6

FT LAUDERDALE BMBTAR#3

**FUDS 1007212679
 N/A**

FORT LAUDERDALE, FL

FUDS:
 Federal Facility ID: FL9799F7135
 Facility Name: FT LAUDERDALE BMBTAR#3
 City: FORT LAUDERDALE
 State: FL
 EPA Region: 4
 County: BROWARD
 Congressional District: 20
 US Army District: Jacksonville District (SAJ)
 Fiscal Year: 2003
 First Name: EUNICE
 Last name: FORD
 Phone: 904-232-2235
 Inst ID: 62180
 CTC: Not reported
 RAB: Not reported

7

**GULFSTREAM PARK RACING ASSOC. INC.
 19500 S.W. 36TH. STREET
 FT LAUDERDALE, FL**

**SWF/LF S100021110
 N/A**

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

GULFSTREAM PARK RACING ASSOC. INC. (Continued)

S100021110

LF:

Facility Status: ACTIVE
 Responsible Authority Name : GULFSTREAM PARK RACING ASSOC
 Responsible Authority Address: 19500 S.W. 36TH. STREET
 FT LAUDERDALE, FL 33009
 Responsible Authority Phone : (954) 625-1311
 GMS_ID: 5006P04629
 Class Type: 320
 Section: 25
 Range: 39E
 Lat/Long: 26:4:19 / 80:24:37.01
 Facility ID: 00054724
 District : SED

8 FT LAUDERDALE BMBTAR#5

**FUDS 1007212686
 N/A**

FT. LAUDERDALE, FL

FUDS:

Federal Facility ID: FL9799F7137
 Facility Name: FT LAUDERDALE BMBTAR#5
 City: FT. LAUDERDALE
 State: FL
 EPA Region: 4
 County: DADE
 Congressional District: 25
 US Army District: Jacksonville District (SAJ)
 Fiscal Year: 2003
 First Name: EUNICE
 Last name: FORD
 Phone: 904-232-2235
 Inst ID: 62202
 CTC: Not reported
 RAB: Not reported

**9 JOSE LUIS RIVERA AND SOFIA RIVERA
 0 SW 195 TER / GRIFFIN RD
 PEMBROKE PINES, FL 33332**

**BROWARD CO. NOV S104520242
 N/A**

Broward County Notice of Violation:

Code Violated: 27-340(G)(1)
 Notice of Violation: 06/01/98
 Facility Status: Mitigation Due
 Date Closed: Not reported

**10 SEMINOLE T STOP INC
 4690 US HWY 27
 FORT LAUDERDAL, FL 33332**

**LUST U001342615
 UST N/A
 Broward Co. EDIEAR
 AST**

LUST:

Facility ID: 8502606 Region: STATE
 Facility District: Southeast District
 Section: 027 Township: 50S
 Range: 39E Lat/long: 26° 3' 47.534700" / 80° 25' 58.481700"
 Facility Status: OPEN Facility Type: A - Retail Station -
 Operator: H C KING

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SEMINOLE T STOP INC (Continued)

U001342615

Facility Phone: (954) 434-0660
 Related Party: SEMINOLE T STOP INC
 Related Party Addr: 4690 US HWY 27
 WESTON, FL 33332 - 2000
 RP Bad Address: No
 Related Party ID: 19558 Related Party Role: ACCOUNT OWNER
 Related Prty Contact: H C KING
 Related Party Phone: (305) 434-0660 RP Phone Ext: Not reported
 Related Party Begin: 05-20-1994
 Name Update: Not reported Address Update: 06-28-1999
 Facility Cleanup Score: 44
 Facility Cleanup Rank: 3873
 Score Effective Date: 12-18-2003
 Score When Ranked: 44
 Feature: Not reported
 Method: AGPS
 Datum: 0
 Discharge Date: 08-16-1991
 Pct Discharge Combined With: Not reported
 Information Source: I - PLIRP (INSURANCE)
 Other Source Description: SI
 Score Effective Date: 12-18-2003
 Score: 44
 Cleanup Required : R - CLEANUP REQUIRED
 Discharge Cleanup Status : RA - RA ONGOING
 Disch Cleanup Status Dt : 08-20-2004
 Cleanup Work Status : ACTIVE
 Eligibility Indicator : E
 Site Manager : MEEKS_XS
 Site Mgr End Date : Not reported
 Tank Office : PCLP6 - Broward County
 Rank : 3873
 Facility Status : OPEN
 Facility Type : A - Retail Station - Retail Station
 Discharge Date : 08-16-1991
 Discharge Combined With : Not reported
 Cleanup Required : R - CLEANUP REQUIRED
 Discharge Cleanup Status : RA - RA ONGOING
 Disch Cleanup Status Dt : 08-20-2004
 Cleanup Work Status : ACTIVE
 Eligibility Indicator : E
 Site Manager : MEEKS_XS
 Site Mgr End Date : Not reported
 Tank Office : PCLP6 - Broward County
 RAP Task ID: 68512
 RAP Cleanup Responsible ID: -
 RAP Funding Elig Type: -
 RAP Last Order Approved: Not reported
 RAP Actual Completion Date: Not reported
 RAP Payment Date: Not reported
 RAP Actual Cost: Not reported
 RA Task ID: 74640
 RA Actual Cost: Not reported
 RA Cleanup Responsible: -
 RA Funding Elig Type: -
 Ra Years to Complete: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SEMINOLE T STOP INC (Continued)

U001342615

SRC Completion Status:	-
SRC Completion Status Dt:	Not reported
SRC Action Type:	-
SRC Submit Date:	Not reported
SRC Review Date:	Not reported
SRC Issue Date:	Not reported
SRC Comment:	Not reported
SA ID:	65617
SA Cleanup Responsible:	-
SA Actual Completion Date:	Not reported
SA Payment Date:	Not reported
SA Funding Elig Type:	-
SA Actual Cost:	Not reported
SR Task ID:	0
SR Cleanup Responsible:	-
SR Oral Date:	Not reported
SR Written Date:	Not reported
Free Product Removal:	Not reported
Soil Removal:	Not reported
Soil Tonnage Removed:	Not reported
Soil Treatment:	Not reported
Other Treatment:	Not reported
SR Actual Completion Date:	Not reported
SR Funding Elig Type:	-
SR Payment Date:	Not reported
SR Actual Cost:	Not reported
SR Alternate Procedure Comments:	Not reported
SR Alternate Procedure Status:	Not reported
SR Alternate Procedure Status Date:	Not reported
SR Alternate Procedure Recieved:	Not reported
Score :	44
Score Ranked :	44
Score Effective :	12-18-2003
Rank :	3873
Facility Status :	OPEN
Facility Type :	A - Retail Station -
Facility Phone :	(954) 434-0660
Operator :	H C KING
Name Update :	Not reported
Address Update :	06-28-1999
Primary Responsible Party Id :	19558
Primary Responsible Party Role :	ACCOUNT OWNER
Responsible Party Begin Date :	05-20-1994
Responsible Party Name :	SEMINOLE T STOP INC
District :	SED
Sec Facility Address :	Not reported
Lat / Long :	26° 3' 48" / 80° 25' 58"
Feature :	Not reported
Method :	AGPS
Datum :	0
Section :	027
Township :	50S
Range :	39E
Responsible Party Address:	4690 US HWY 27 WESTON, FL 33332
Responsible Party Phone :	(305) 434-0660
Responsible Party Extension :	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SEMINOLE T STOP INC (Continued)

U001342615

Contact :	H C KING
Responsible Party Bad Address :	No
District :	SED
Facility Id :	8502606
Discharge Date :	08-16-1991
Disc Combined With :	Not reported
Cleanup Required :	R - CLEANUP REQUIRED
Disch Cleanup Status :	RA - RA ONGOING
Disch Cleanup Status Dt :	08-20-2004
Cleanup Work Status :	ACTIVE
Information Source :	I - PLIRP (INSURANCE)
Other Source :	SI
Elig Indicator :	E - ELIGIBLE
Site Manager :	MEEKS_XS
Site Manager End Date :	Not reported
Tank Office :	PCLP6 - Broward County
Score :	44
Score Effective Date :	12-18-2003
Rank :	3873
Contaminated Drinking Wells :	0
Contaminated Monitoring Wells :	Y
Contaminated Soil :	Y
Contaminated Surface Water :	N
Contaminated Ground Water :	Y
Pollutant :	D - VEHICULAR DIESEL
Other Description :	Not reported
Gallons Discharged :	Not reported
District :	SED
County Code :	6
Facility Id :	8502606
Discharge Date :	08-16-1991
Discharge Combined With :	Not reported
Cleanup Required :	R - CLEANUP REQUIRED
Discharge Cleanup Status :	RA - RA ONGOING
Disc Cleanup Status Date :	08-20-2004
Cleanup Work Status :	ACTIVE
Information Source :	I - PLIRP (INSURANCE)
Other Source :	SI
Application Received Dt :	08-17-1992
Cleanup Program :	P - PETROLEUM LIABILITY AND RESTORATION INSURANCE PROGRAM
Eligibility Status :	E - ELIGIBLE
Elig Status Date :	09-25-1992
Letter Of Intent Dt :	08-25-1992
Elig Letter Sent :	09-25-1992
Redetermined :	N
Inspection Date :	08-20-1992
Site Manager :	MEEKS_XS
Site Manager End Date :	Not reported
Tank Office :	PCLP6 - Broward County
Score :	44
Score Effective Date :	12-18-2003
Rank :	3873
Deductible Amount :	\$500.00
Deductible Paid To Date :	\$500.00
Co-pay Amount :	\$0.00
Co-pay Paid To Date :	\$0.00

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SEMINOLE T STOP INC (Continued)

U001342615

Cap Amount : \$1,000,000.00
 Cap To Date : 83718.00

FL BROWARD COUNTY EDIEAR:

Facility ID: 1820
 Region: BROWARD
 Facility Type: GAS STATION
 Facility Department: 068502606
 Program Type: FDEP
 Pollutant Type: DIESEL
 Lead Agency: BCDPEP
 Site Studies: X
 Remedy Selected: Yes
 Remedy Design: No
 Cleanup Ongoing: No
 Project Completed: No
 Environmental Assessment Remediation License: Not reported
 Wellfield Site: Not reported
 Wellfield Site 2: Yes

UST:

Facility ID:	8502606	Facility Type:	Retail Station
Facility Phone:	(954) 434-0660	Facility Status:	OPEN
Owner Id:	19558		
Owner Name:	SEMINOLE T STOP INC		
Owner Address:	4690 US HWY 27 WESTON, FL 33332		
Owner Contact:	H C KING		
Owner Phone:	(305) 434-0660		
Tank Content Desc:	Retail Station		
Type Description:	Retail Station		
Tank Id:	9	Vessel Indicator:	TANK
Tank Location:	UNDERGROUND		
Substance:			
Description:	Vehicular diesel		
Gallons:	15000		
Category:	Vehicular Fuels		
Regulation Began:	1986-07-01		
Tank Status:	In service	Tank Status Date:	01-OCT-1992
Install Date:	01-OCT-1992		
Tank Construction:			
Tank Id:	9		
Construction Desc:	Fiberglass		
Category:	Primary Construction		
Description:	Fiberglass		
Tank Id:	9		
Construction Desc:	Flow shut-Off		
Category:	Overfill/Spill		
Description:	Flow shut off		
Petro Monitoring:			
Monitoring Desc:	Monitor dbl wall tank space		
Category:	Tank Monitoring		
Description:	Interstitial space - Double wall tank		
Monitoring Desc:	Electronic line leak detector		
Category:	Piping Monitoring		
Description:	Line leak detector with electronic flow shutoff		

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SEMINOLE T STOP INC (Continued)

U001342615

Monitoring Desc: Monitor dbl wall pipe space
 Category: Piping Monitoring
 Description: Interstitial space - Double Walled piping

Monitoring Desc: Automatic tank gauging - USTs
 Category: Tank Monitoring
 Description: Auto tank gauging system

Tank Piping:
 Piping Desc: Fiberglass
 Category: Primary Construction
 Description: Fiberglass

Piping Desc: Double wall
 Category: Secondary Containment
 Description: Dbl wall;single mat;out pipe mat = in pip mat

Piping Desc: Dispenser liners
 Category: Miscellaneous Attributes
 Description: Dispenser liners

Facility ID: 8502606
 Facility Phone: (954) 434-0660
 Owner Id: 19558
 Owner Name: SEMINOLE T STOP INC
 Owner Address: 4690 US HWY 27
 WESTON, FL 33332

Facility Type: Retail Station
 Facility Status: OPEN

Owner Contact: H C KING
 Owner Phone: (305) 434-0660

Tank Content Desc: Retail Station
 Type Description: Retail Station

Tank Id: 1
 Tank Location: UNDERGROUND
 Substance:

Vessel Indicator: TANK

Description: Unleaded gas
 Gallons: 10000
 Category: Vehicular Fuels
 Regulation Began: 1986-07-01

Tank Status: Closed in place
 Install Date: 01-JUL-1980

Tank Status Date: 01-OCT-1992

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 8502606
 Facility Phone: (954) 434-0660
 Owner Id: 19558

Facility Type: Retail Station
 Facility Status: OPEN

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SEMINOLE T STOP INC (Continued)

U001342615

Owner Name: SEMINOLE T STOP INC
 Owner Address: 4690 US HWY 27
 WESTON, FL 33332

Owner Contact: H C KING
 Owner Phone: (305) 434-0660

Tank Content Desc:Retail Station
 Type Description: Retail Station

Tank Id: 6
 Tank Location: UNDERGROUND

Vessel Indicator: TANK

Substance:
 Description: Vehicular diesel
 Gallons: 10000
 Category: Vehicular Fuels
 Regulation Began:1986-07-01

Tank Status: Closed in place
 Install Date: 01-JUL-1980

Tank Status Date: 01-OCT-1992

Tank Construction:
 Tank Id: Not reported
 Construction Desc:Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 8502606
 Facility Phone: (954) 434-0660
 Owner Id: 19558
 Owner Name: SEMINOLE T STOP INC
 Owner Address: 4690 US HWY 27
 WESTON, FL 33332

Facility Type: Retail Station
 Facility Status: OPEN

Owner Contact: H C KING
 Owner Phone: (305) 434-0660

Tank Content Desc:Retail Station
 Type Description: Retail Station

Tank Id: 2
 Tank Location: UNDERGROUND

Vessel Indicator: TANK

Substance:
 Description: Unleaded gas
 Gallons: 10000
 Category: Vehicular Fuels
 Regulation Began:1986-07-01

Tank Status: Closed in place
 Install Date: 01-JUL-1980

Tank Status Date: 01-OCT-1992

Tank Construction:
 Tank Id: Not reported
 Construction Desc:Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 Database(s) EPA ID Number

SEMINOLE T STOP INC (Continued)

U001342615

Description: Not reported
 Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 8502606
 Facility Phone: (954) 434-0660
 Owner Id: 19558
 Owner Name: SEMINOLE T STOP INC
 Owner Address: 4690 US HWY 27
 WESTON, FL 33332

Facility Type: Retail Station
 Facility Status: OPEN

Owner Contact: H C KING
 Owner Phone: (305) 434-0660

Tank Content Desc: Retail Station
 Type Description: Retail Station

Tank Id: 3
 Tank Location: UNDERGROUND

Vessel Indicator: TANK

Substance:
 Description: Vehicular diesel
 Gallons: 10000
 Category: Vehicular Fuels
 Regulation Began: 1986-07-01

Tank Status: Closed in place
 Install Date: 01-JUL-1980

Tank Status Date: 01-OCT-1992

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 8502606
 Facility Phone: (954) 434-0660
 Owner Id: 19558
 Owner Name: SEMINOLE T STOP INC
 Owner Address: 4690 US HWY 27
 WESTON, FL 33332

Facility Type: Retail Station
 Facility Status: OPEN

Owner Contact: H C KING
 Owner Phone: (305) 434-0660

Tank Content Desc: Retail Station
 Type Description: Retail Station

Tank Id: 7
 Tank Location: UNDERGROUND

Vessel Indicator: TANK

Substance:
 Description: Vehicular diesel
 Gallons: 10000
 Category: Vehicular Fuels
 Regulation Began: 1986-07-01

Tank Status: In service

Tank Status Date: 01-OCT-1992

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SEMINOLE T STOP INC (Continued)

U001342615

Install Date: 01-OCT-1992
 Tank Construction:
 Tank Id: 7
 Construction Desc: Fiberglass
 Category: Primary Construction
 Description: Fiberglass

Tank Id: 7
 Construction Desc: Flow shut-Off
 Category: Overfill/Spill
 Description: Flow shut off

Petro Monitoring:
 Monitoring Desc: Electronic line leak detector
 Category: Piping Monitoring
 Description: Line leak detector with electronic flow shutoff

Monitoring Desc: Monitor dbl wall tank space
 Category: Tank Monitoring
 Description: Interstitial space - Double wall tank

Monitoring Desc: Monitor dbl wall pipe space
 Category: Piping Monitoring
 Description: Interstitial space - Double Walled piping

Monitoring Desc: Automatic tank gauging - USTs
 Category: Tank Monitoring
 Description: Auto tank gauging system

Tank Piping:
 Piping Desc: Fiberglass
 Category: Primary Construction
 Description: Fiberglass

Piping Desc: Double wall
 Category: Secondary Containment
 Description: Dbl wall;single mat;out pipe mat = in pip mat

Piping Desc: Dispenser liners
 Category: Miscellaneous Attributes
 Description: Dispenser liners

Facility ID: 8502606
 Facility Phone: (954) 434-0660
 Owner Id: 19558
 Owner Name: SEMINOLE T STOP INC
 Owner Address: 4690 US HWY 27
 WESTON, FL 33332
 Owner Contact: H C KING
 Owner Phone: (305) 434-0660
 Tank Content Desc: Retail Station
 Type Description: Retail Station
 Tank Id: 8
 Tank Location: UNDERGROUND
 Substance:
 Description: Unleaded gas
 Gallons: 10000
 Category: Vehicular Fuels
 Regulation Began: 1986-07-01

Facility Type: Retail Station
 Facility Status: OPEN

Vessel Indicator: TANK

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

SEMINOLE T STOP INC (Continued)

U001342615

Tank Status:	In service	Tank Status Date:	01-OCT-1992
Install Date:	01-OCT-1992		
Tank Construction:			
Tank Id:	8		
Construction Desc:	Fiberglass		
Category:	Primary Construction		
Description:	Fiberglass		
Tank Id:	8		
Construction Desc:	Flow shut-Off		
Category:	Overfill/Spill		
Description:	Flow shut off		
Petro Monitoring:			
Monitoring Desc:	Groundwater monitoring		
Category:	Site/General		
Description:	Groundwater monitoring system		
Monitoring Desc:	Monitor dbl wall tank space		
Category:	Tank Monitoring		
Description:	Interstitial space - Double wall tank		
Monitoring Desc:	Electronic line leak detector		
Category:	Piping Monitoring		
Description:	Line leak detector with electronic flow shutoff		
Monitoring Desc:	Monitor dbl wall pipe space		
Category:	Piping Monitoring		
Description:	Interstitial space - Double Walled piping		
Monitoring Desc:	Automatic tank gauging - USTs		
Category:	Tank Monitoring		
Description:	Auto tank gauging system		
Tank Piping:			
Piping Desc:	Fiberglass		
Category:	Primary Construction		
Description:	Fiberglass		
Piping Desc:	Double wall		
Category:	Secondary Containment		
Description:	Dbl wall;single mat;out pipe mat = in pip mat		
Piping Desc:	Dispenser liners		
Category:	Miscellaneous Attributes		
Description:	Dispenser liners		

AST:

Facility ID:	8502606	Tank ID:	5
Facility Phone:	(954) 434-0660		
Facility Type:	Retail Station		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	Retail Station	Content Description:	Waste Oil
DEP Contrctr Own:	No	Facility Status:	OPEN
Substance:			
Description:	Waste oil		
Gallons:	300		
Category:	Petroleum Pollutant		
Regulation Began:	1991-04-01		
Tank Status:	Closed in place	Status Date:	01-JUN-2000

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SEMINOLE T STOP INC (Continued)

U001342615

Install Date: 01-JUL-1980
 Owner Id: 19558
 Owner Name: SEMINOLE T STOP INC
 Owner Contact: H C KING
 Owner Address: 4690 US HWY 27
 WESTON, FL 33332
 Owner Phone: (305) 434-0660

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 8502606
 Facility Phone: (954) 434-0660
 Facility Type: Retail Station
 Tank Location: ABOVEGROUND
 Type Description: Retail Station
 DEP Contrctr Own: No

Tank ID: 4

Vessel Indicator: TANK
 Content Description: Kerosene
 Facility Status: OPEN

Substance:
 Description: Kerosene
 Gallons: 300
 Category: Petroleum Pollutant
 Regulation Began: 1991-04-01

Tank Status: In service

Status Date: Not reported

Install Date: 01-JUL-1980
 Owner Id: 19558
 Owner Name: SEMINOLE T STOP INC
 Owner Contact: H C KING
 Owner Address: 4690 US HWY 27
 WESTON, FL 33332
 Owner Phone: (305) 434-0660

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site
 Database(s)
 EPA ID Number
 EDR ID Number

11 FLORIDA FOLIAGE GROWERS INC BROWARD CO. HM S102631979
 20600 GRIFFIN RD N/A
 FT LAUDERDALE, FL 33332

HAZMAT:
 Document Id: 0181

12 SOUTH FL WATER MGMT DIST S-9 AST A100148713
 21939 GRIFFIN RD N/A
 FORT LAUDERDAL, FL 33332

AST:
 Facility ID: 8622543 Tank ID: 7
 Facility Phone: (954) 434-6429
 Facility Type: State Government
 Tank Location: ABOVEGROUND Vessel Indicator: TANK
 Type Description: State Government Content Description: Generator/Pump Diesel
 DEP Contrctr Own: No Facility Status: OPEN

Substance:
 Description: Diesel-generator,pump
 Gallons: 25000
 Category: Petroleum Pollutant
 Regulation Began:1991-04-01
 Tank Status: In service Status Date: 01-FEB-2004
 Install Date: 01-FEB-2004
 Owner Id: 20374 Owner Phone: (561) 682-2516
 Owner Name: SOUTH FL WATER MGMT DISTRICT
 Owner Contact: JEFFREY A SMITH
 Owner Address: 3301 GUN CLUB RD-DEPT 5640
 ATTN: JEFFREY SMITH
 WEST PALM BCH, FL 33406

Tank Construction:
 Tank Id: 7
 Construction DescSteel
 Category: Primary Construction
 Description: Steel

Tank Id: 7
 Construction DescDouble wall
 Category: Secondary Containment
 Description: Dbl wall; single mat; out tnk amt = in tmk mat

Tank Id: 7
 Construction DescSpill containment bucket
 Category: Overfill/Spill
 Description: Spill containment bucket

Tank Id: 7
 Construction DescLevel gauges/alarms
 Category: Overfill/Spill
 Description: Level gauges/hi level alarms

Petro Monitoring:
 Monitoring Desc: Monitor dbl wall tank space
 Category: Tank Monitoring
 Description: Interstitial space - Double wall tank

Monitoring Desc: Monitor dbl wall pipe space
 Category: Piping Monitoring

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

SOUTH FL WATER MGMT DIST S-9 (Continued)

A100148713

Description: Interstitial space - Double Walled piping

Monitoring Desc: Automatic tank gauging - USTs
 Category: Tank Monitoring
 Description: Auto tank gauging system

Tank Piping:
 Piping Desc: Steel/galvanized metal
 Category: Primary Construction
 Description: Steel or Galvanized Metal

Piping Desc: Double wall
 Category: Secondary Containment
 Description: Dbl wall;single mat;out pipe mat = in pip mat

Piping Desc: Suction piping system
 Category: Miscellaneous Attributes
 Description: Suction piping system

Facility ID:	8622543	Tank ID:	4
Facility Phone:	(954) 434-6429		
Facility Type:	State Government		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	State Government	Content Description:	Generator/Pump Diesel
DEP Contrctr Own:	No	Facility Status:	OPEN
Substance:			
Description:	Diesel-generator,pump		
Gallons:	25000		
Category:	Petroleum Pollutant		
Regulation Began:	1991-04-01		
Tank Status:	Removed	Status Date:	01-FEB-2004
Install Date:	01-AUG-1992		
Owner Id:	20374	Owner Phone:	(561) 682-2516
Owner Name:	SOUTH FL WATER MGMT DISTRICT		
Owner Contact:	JEFFREY A SMITH		
Owner Address:	3301 GUN CLUB RD-DEPT 5640 ATTN: JEFFREY SMITH WEST PALM BCH, FL 33406		

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID:	8622543	Tank ID:	3
Facility Phone:	(954) 434-6429		
Facility Type:	State Government		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	State Government	Content Description:	Generator/Pump Diesel
DEP Contrctr Own:	No	Facility Status:	OPEN

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

SOUTH FL WATER MGMT DIST S-9 (Continued)

A100148713

Substance:

Description: Diesel-generator,pump
 Gallons: 25000
 Category: Petroleum Pollutant
 Regulation Began:1991-04-01
 Tank Status: Removed Status Date: 01-FEB-2004
 Install Date: 01-AUG-1992
 Owner Id: 20374 Owner Phone: (561) 682-2516
 Owner Name: SOUTH FL WATER MGMT DISTRICT
 Owner Contact: JEFFREY A SMITH
 Owner Address: 3301 GUN CLUB RD-DEPT 5640
 ATTN: JEFFREY SMITH
 WEST PALM BCH, FL 33406

Tank Construction:

Tank Id: Not reported
 Construction Desc:Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:

Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:

Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 8622543 Tank ID: 2
 Facility Phone: (954) 434-6429
 Facility Type: State Government
 Tank Location: ABOVEGROUND Vessel Indicator: TANK
 Type Description: State Government Content Description: Generator/Pump Diesel
 DEP Contrctr Own: No Facility Status: OPEN

Substance:

Description: Diesel-generator,pump
 Gallons: 25000
 Category: Petroleum Pollutant
 Regulation Began:1991-04-01
 Tank Status: Removed Status Date: 31-AUG-1992
 Install Date: 01-AUG-1957
 Owner Id: 20374 Owner Phone: (561) 682-2516
 Owner Name: SOUTH FL WATER MGMT DISTRICT
 Owner Contact: JEFFREY A SMITH
 Owner Address: 3301 GUN CLUB RD-DEPT 5640
 ATTN: JEFFREY SMITH
 WEST PALM BCH, FL 33406

Tank Construction:

Tank Id: Not reported
 Construction Desc:Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:

Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:

Piping Desc: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

SOUTH FL WATER MGMT DIST S-9 (Continued)

A100148713

Category: Not reported
 Description: Not reported

Facility ID:	8622543	Tank ID:	1
Facility Phone:	(954) 434-6429		
Facility Type:	State Government		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	State Government	Content Description:	Generator/Pump Diesel
DEP Contrctr Own:	No	Facility Status:	OPEN
Substance:			
Description:	Diesel-generator,pump		
Gallons:	25000		
Category:	Petroleum Pollutant		
Regulation Began:	1991-04-01		
Tank Status:	Removed	Status Date:	31-AUG-1992
Install Date:	01-AUG-1957		
Owner Id:	20374	Owner Phone:	(561) 682-2516
Owner Name:	SOUTH FL WATER MGMT DISTRICT		
Owner Contact:	JEFFREY A SMITH		
Owner Address:	3301 GUN CLUB RD-DEPT 5640 ATTN: JEFFREY SMITH WEST PALM BCH, FL 33406		

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID:	8622543	Tank ID:	5
Facility Phone:	(954) 434-6429		
Facility Type:	State Government		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	State Government	Content Description:	New/Lube Oil
DEP Contrctr Own:	No	Facility Status:	OPEN
Substance:			
Description:	New/lube oil		
Gallons:	600		
Category:	Petroleum Pollutant		
Regulation Began:	1991-04-01		
Tank Status:	In service	Status Date:	01-DEC-1997
Install Date:	01-DEC-1997		
Owner Id:	20374	Owner Phone:	(561) 682-2516
Owner Name:	SOUTH FL WATER MGMT DISTRICT		
Owner Contact:	JEFFREY A SMITH		
Owner Address:	3301 GUN CLUB RD-DEPT 5640 ATTN: JEFFREY SMITH WEST PALM BCH, FL 33406		

Tank Construction:
 Tank Id: 5

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

SOUTH FL WATER MGMT DIST S-9 (Continued)

A100148713

Category: Piping Monitoring
 Description: Interstitial space - Double Walled piping

Monitoring Desc: Automatic tank gauging - USTs
 Category: Tank Monitoring
 Description: Auto tank gauging system

Tank Piping:
 Piping Desc: Steel/galvanized metal
 Category: Primary Construction
 Description: Steel or Galvanized Metal

Piping Desc: Double wall
 Category: Secondary Containment
 Description: Dbl wall;single mat;out pipe mat = in pip mat

Piping Desc: Suction piping system
 Category: Miscellaneous Attributes
 Description: Suction piping system

**12 SFWMD PUMP STATION S-9
 21939 GRIFFIN RD
 FT LAUDERDALE, FL 33332**

**BROWARD CO. HM S105213224
 N/A**

HAZMAT:
 Document Id: 9511

**12 EVERGLADES HOLIDAY PARK
 21940 GRIFFIN RD
 FORT LAUDERDAL, FL 33332**

**UST U001343943
 N/A**

UST:

Facility ID: 9046827	Facility Type:	Fuel User / Non-retail
Facility Phone: (954) 434-8111	Facility Status:	OPEN
Owner Id: 6742		
Owner Name: EVERGLADES HOLIDAY PARK		
Owner Address: 21940 GRIFFIN RD FORT LAUDERDALE, FL 33332		
Owner Contact: MITCHELL BRIDGES		
Owner Phone: (305) 434-8111		
Tank Content Desc: Fuel user/Non-retail		
Type Description: Fuel user/Non-retail		
Tank Id: 2	Vessel Indicator:	TANK
Tank Location: UNDERGROUND		
Substance:		
Description: Unleaded gas		
Gallons: 2000		
Category: Vehicular Fuels		
Regulation Began: 1986-07-01		
Tank Status: In service	Tank Status Date:	Not reported
Install Date: 01-NOV-1986		
Tank Construction:		
Tank Id: 2		
Construction Desc: Ball check valve		
Category: Overfill/Spill		
Description: Ball Check Valve		

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

EVERGLADES HOLIDAY PARK (Continued)

U001343943

Tank Id: 2
 Construction Desc: Fiberglass
 Category: Primary Construction
 Description: Fiberglass

Tank Id: 2
 Construction Desc: Spill containment bucket
 Category: Overfill/Spill
 Description: Spill containment bucket

Petro Monitoring:
 Monitoring Desc: Visual inspect dispenser liners
 Category: Miscellaneous
 Description: Visual Inspection of Dispenser Liners

Monitoring Desc: Mechanical line leak detector
 Category: Piping Monitoring
 Description: Line leak detector with flow restrictor

Monitoring Desc: Groundwater monitoring
 Category: Site/General
 Description: Groundwater monitoring system

Tank Piping:
 Piping Desc: Fiberglass
 Category: Primary Construction
 Description: Fiberglass

Piping Desc: Dispenser liners
 Category: Miscellaneous Attributes
 Description: Dispenser liners

Facility ID: 9046827
 Facility Phone: (954) 434-8111
 Owner Id: 6742
 Owner Name: EVERGLADES HOLIDAY PARK
 Owner Address: 21940 GRIFFIN RD
 FORT LAUDERDALE, FL 33332
 Owner Contact: MITCHELL BRIDGES
 Owner Phone: (305) 434-8111

Facility Type:
 Facility Status: Fuel User / Non-retail
 OPEN

Tank Content Desc: Fuel user/Non-retail
 Type Description: Fuel user/Non-retail

Tank Id: 1
 Tank Location: UNDERGROUND

Vessel Indicator: TANK

Substance:
 Description: Unleaded gas
 Gallons: 2000
 Category: Vehicular Fuels
 Regulation Began: 1986-07-01

Tank Status: In service
 Install Date: 01-NOV-1986

Tank Status Date: Not reported

Tank Construction:
 Tank Id: 1
 Construction Desc: Ball check valve
 Category: Overfill/Spill
 Description: Ball Check Valve

Tank Id: 1

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

EVERGLADES HOLIDAY PARK (Continued)

U001343943

Construction Desc: Fiberglass
 Category: Primary Construction
 Description: Fiberglass

Tank Id: 1
 Construction Desc: Spill containment bucket
 Category: Overfill/Spill
 Description: Spill containment bucket

Petro Monitoring:
 Monitoring Desc: Visual inspect dispenser liners
 Category: Miscellaneous
 Description: Visual Inspection of Dispenser Liners

Monitoring Desc: Mechanical line leak detector
 Category: Piping Monitoring
 Description: Line leak detector with flow restrictor

Monitoring Desc: Groundwater monitoring
 Category: Site/General
 Description: Groundwater monitoring system

Tank Piping:
 Piping Desc: Fiberglass
 Category: Primary Construction
 Description: Fiberglass

Piping Desc: Dispenser liners
 Category: Miscellaneous Attributes
 Description: Dispenser liners

FL UST Broward County:

Location ID: 587040
 Install Date: 11/1/86
 Tank Size: 2000.0000
 Tank Type: UG
 State ID: 069046827

Location ID: 587040
 Install Date: 11/1/86
 Tank Size: 2000.0000
 Tank Type: UG
 State ID: 069046827

12 **EVERGLADES HOLIDAY PARK**
21940 GRIFFIN RD
FT LAUDERDALE, FL 33332

UST 1003938293
N/A

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

12 BRIDGES ENTERPRISES/WASTE MAGIC/FISH & W BROWARD CO. NOV S104520239
21940 GRIFFIN RD N/A
FT LAUDERDALE, FL 33332

Broward County Notice of Violation:
 Code Violated: 27-333(A)
 Notice of Violation: 02/05/99
 Facility Status: PM
 Date Closed: Not reported

Code Violated: 27-307(B)(2)D.
 Notice of Violation: 06/28/00
 Facility Status: Complete
 Date Closed: 03/14/01

12 SOUTH FLORIDA WATER MANAGEMENT DISTRICT FINDS 1005594693
21939 GRIFFIN ROAD 110007031158
FORT LAUDERDALE, FL 33332

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 AEROMETRIC INFORMATION RETRIEVAL SYSTEM/AIRS FACILITY SYSTEM

13 5380 SW 208 LANE ERNS 92298412
5380 SW 208 LANE N/A
FORT LAUDERDALE, FL

[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

14 SAWGRASS RECREATION PARK LUST U001342611
5400 US HWY 27 UST N/A
FORT LAUDERDAL, FL 33332 AST

LUST:
 Facility ID: 8502591 Region: STATE
 Facility District: Southeast District
 Section: 016 Township: 49S
 Range: 39E Lat/long: 26° 1' 55.000000" / 80° 18' 50.000000"
 Facility Status: OPEN Facility Type: C - Fuel user/Non-retail -
 Operator: GINGER BAKER
 Facility Phone: (954) 389-0202
 Related Party: ANDYTOWN ENTERPRISES INC
 Related Party Addr: PO BOX 291620
 FORT LAUDERDALE, FL 33329
 RP Bad Address: Not reported
 Related Party ID: 50925 Related Party Role: ACCOUNT OWNER
 Related Prty Contact: GINGER BAKER
 Related Party Phone: (954) 389-0202 RP Phone Ext: Not reported
 Related Party Begin: 10-20-2000
 Name Update: Not reported Address Update: 10-19-2000
 Facility Cleanup Score: 45
 Facility Cleanup Rank: 0

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

SAWGRASS RECREATION PARK (Continued)

U001342611

Score Effective Date:	10-08-2003
Score When Ranked:	0
Feature:	Not reported
Method:	AGPS
Datum:	0
Discharge Date:	07-01-1991
Pct Discharge Combined With:	Not reported
Information Source:	D - DISCHARGE NOTIFICATION
Other Source Description:	Not reported
Score Effective Date:	10-08-2003
Score:	45
Cleanup Required :	R - CLEANUP REQUIRED
Discharge Cleanup Status :	SRCR - SRCR COMPLETE
Disch Cleanup Status Dt :	02-27-2004
Cleanup Work Status :	COMPLETED
Eligibility Indicator :	E
Site Manager :	SINGLETON_D
Site Mgr End Date :	03-24-2004
Tank Office :	PCLP6 - Broward County
Rank :	0
Facility Status :	OPEN
Facility Type :	C - Fuel user/Non-retail - Fuel user/Non-retail
Discharge Date :	07-01-1991
Discharge Combined With :	Not reported
Cleanup Required :	R - CLEANUP REQUIRED
Discharge Cleanup Status :	SRCR - SRCR COMPLETE
Disch Cleanup Status Dt :	02-27-2004
Cleanup Work Status :	COMPLETED
Eligibility Indicator :	E
Site Manager :	SINGLETON_D
Site Mgr End Date :	03-24-2004
Tank Office :	PCLP6 - Broward County
RAP Task ID:	0
RAP Cleanup Responsible ID:	-
RAP Funding Elig Type:	-
RAP Last Order Approved:	Not reported
RAP Actual Completion Date:	Not reported
RAP Payment Date:	Not reported
RAP Actual Cost:	Not reported
RA Task ID:	68012
RA Actual Cost:	Not reported
RA Cleanup Responsible:	-
RA Funding Elig Type:	-
Ra Years to Complete:	0
SRC Completion Status:	A - APPROVED
SRC Completion Status Dt:	03-24-2004
SRC Action Type:	SRCR - SITE REHABILITATION COMPLETION REPORT
SRC Submit Date:	09-30-2002
SRC Review Date:	03-03-2004
SRC Issue Date:	03-24-2004
SRC Comment:	Not reported
SA ID:	65622
SA Cleanup Responsible:	-
SA Actual Completion Date:	Not reported
SA Payment Date:	Not reported
SA Funding Elig Type:	-

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SAWGRASS RECREATION PARK (Continued)

U001342611

SA Actual Cost:	Not reported
SR Task ID:	0
SR Cleanup Responsible:	-
SR Oral Date:	Not reported
SR Written Date:	Not reported
Free Product Removal:	Not reported
Soil Removal:	Not reported
Soil Tonnage Removed:	Not reported
Soil Treatment:	Not reported
Other Treatment:	Not reported
SR Actual Completion Date:	Not reported
SR Funding Elig Type:	-
SR Payment Date:	Not reported
SR Actual Cost:	Not reported
SR Alternate Procedure Comments:	Not reported
SR Alternate Procedure Status:	Not reported
SR Alternate Procedure Status Date:	Not reported
SR Alternate Procedure Recieved:	Not reported
Score :	Not reported
Score Ranked :	Not reported
Score Effective :	Not reported
Rank :	Not reported
Facility Status :	Not reported
Facility Type :	Not reported
Facility Phone :	Not reported
Operator :	Not reported
Name Update :	Not reported
Address Update :	Not reported
Primary Responsible Party Id :	Not reported
Primary Responsible Party Role :	Not reported
Responsible Party Begin Date :	Not reported
Responsible Party Name :	Not reported
District :	Not reported
Sec Facility Address :	Not reported
Lat / Long :	Not reported
Feature :	Not reported
Method :	Not reported
Datum :	Not reported
Section :	Not reported
Township :	Not reported
Range :	Not reported
Responsible Party Address:	Not reported
Responsible Party Phone :	Not reported
Responsible Party Extension :	Not reported
Contact :	Not reported
Responsible Party Bad Address :	Not reported
District :	SED
Facility Id :	8502591
Discharge Date :	07-01-1991
Disc Combined With :	Not reported
Cleanup Required :	R - CLEANUP REQUIRED
Disch Cleanup Status :	SRCR - SRCR COMPLETE
Disch Cleanup Status Dt :	02-27-2004
Cleanup Work Status :	COMPLETED
Information Source :	D - DISCHARGE NOTIFICATION
Other Source :	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SAWGRASS RECREATION PARK (Continued)

U001342611

Elig Indicator :	E - ELIGIBLE
Site Manager :	SINGLETON_D
Site Manager End Date :	03-24-2004
Tank Office :	PCLP6 - Broward County
Score :	45
Score Effective Date :	10-08-2003
Rank :	0
Contaminated Drinking Wells :	0
Contaminated Monitoring Wells :	N
Contaminated Soil :	Y
Contaminated Surface Water :	N
Contaminated Ground Water :	Y
Pollutant :	A - LEADED GAS
Other Description :	Not reported
Gallons Discharged :	Not reported
District :	SED
Facility Id :	8502591
Discharge Date :	07-01-1991
Disc Combined With :	Not reported
Cleanup Required :	R - CLEANUP REQUIRED
Disch Cleanup Status :	SRCR - SRCR COMPLETE
Disch Cleanup Status Dt :	02-27-2004
Cleanup Work Status :	COMPLETED
Information Source :	D - DISCHARGE NOTIFICATION
Other Source :	Not reported
Elig Indicator :	E - ELIGIBLE
Site Manager :	SINGLETON_D
Site Manager End Date :	03-24-2004
Tank Office :	PCLP6 - Broward County
Score :	45
Score Effective Date :	10-08-2003
Rank :	0
Contaminated Drinking Wells :	0
Contaminated Monitoring Wells :	N
Contaminated Soil :	Y
Contaminated Surface Water :	N
Contaminated Ground Water :	Y
Pollutant :	B - UNLEADED GAS
Other Description :	Not reported
Gallons Discharged :	Not reported
District :	SED
County Code :	6
Facility Id :	8502591
Discharge Date :	07-01-1991
Discharge Combined With :	Not reported
Cleanup Required :	R - CLEANUP REQUIRED
Discharge Cleanup Status :	SRCR - SRCR COMPLETE
Disc Cleanup Status Date :	02-27-2004
Cleanup Work Status :	COMPLETED
Information Source :	D - DISCHARGE NOTIFICATION
Other Source :	Not reported
Application Received Dt :	03-11-1992
Cleanup Program :	A - ABANDONED TANK RESTORATION PROGRAM
Eligibility Status :	E - ELIGIBLE
Elig Status Date :	02-12-1993
Letter Of Intent Dt :	03-11-1992

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SAWGRASS RECREATION PARK (Continued)

U001342611

Elig Letter Sent : 02-12-1993
 Redetermined : N
 Inspection Date : 04-15-1992
 Site Manager : SINGLETON_D
 Site Manager End Date : 03-24-2004
 Tank Office : PCLP6 - Broward County
 Score : 45
 Score Effective Date : 10-08-2003
 Rank : Not reported
 Deductible Amount : \$500.00
 Deductible Paid To Date : \$500.00
 Co-pay Amount : \$0.00
 Co-pay Paid To Date : \$0.00
 Cap Amount : Not reported
 Cap To Date : 29106.03

UST:

Facility ID:	8502591	Facility Type:	Fuel User / Non-retail
Facility Phone:	(954) 389-0202	Facility Status:	OPEN
Owner Id:	50925		
Owner Name:	ANDYTOWN ENTERPRISES INC		
Owner Address:	PO BOX 291620 FORT LAUDERDALE, FL 33329		
Owner Contact:	GINGER BAKER		
Owner Phone:	(954) 389-0202		
Tank Content Desc:	Fuel user/Non-retail		
Type Description:	Fuel user/Non-retail		
Tank Id:	1	Vessel Indicator:	TANK
Tank Location:	UNDERGROUND		
Substance:			
Description:	Leaded gas		
Gallons:	3000		
Category:	Vehicular Fuels		
Regulation Began:	1986-07-01		
Tank Status:	Removed	Tank Status Date:	31-JUL-1991
Install Date:	Not reported		
Tank Construction:			
Tank Id:	Not reported		
Construction Desc:	Not reported		
Category:	Not reported		
Description:	Not reported		
Petro Monitoring:			
Monitoring Desc:	Not reported		
Category:	Not reported		
Description:	Not reported		
Tank Piping:			
Piping Desc:	Not reported		
Category:	Not reported		
Description:	Not reported		

AST:

Facility ID:	8502591	Tank ID:	4
Facility Phone:	(954) 389-0202		
Facility Type:	Fuel User / Non-retail		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	Fuel user/Non-retail	Content Description:	Vehicular Diesel
DEP Contrctr Own:	No	Facility Status:	OPEN
Substance:			

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

SAWGRASS RECREATION PARK (Continued)

U001342611

Description: Vehicular diesel
 Gallons: 500
 Category: Vehicular Fuels
 Regulation Began:1986-07-01
 Tank Status: In service Status Date: 01-MAY-2003
 Install Date: 01-MAY-2003
 Owner Id: 50925 Owner Phone: (954) 389-0202
 Owner Name: ANDYTOWN ENTERPRISES INC
 Owner Contact: GINGER BAKER
 Owner Address: PO BOX 291620
 FORT LAUDERDALE, FL 33329

Tank Construction:
 Tank Id: Not reported
 Construction Desc:Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 8502591 Tank ID: 3
 Facility Phone: (954) 389-0202
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND Vessel Indicator: TANK
 Type Description: Fuel user/Non-retail Content Description: Unleaded Gas
 DEP Contrctr Own: No Facility Status: OPEN

Substance:
 Description: Unleaded gas
 Gallons: 1000
 Category: Vehicular Fuels
 Regulation Began:1986-07-01
 Tank Status: Removed Status Date: 01-MAY-2003
 Install Date: 01-FEB-2003
 Owner Id: 50925 Owner Phone: (954) 389-0202
 Owner Name: ANDYTOWN ENTERPRISES INC
 Owner Contact: GINGER BAKER
 Owner Address: PO BOX 291620
 FORT LAUDERDALE, FL 33329

Tank Construction:
 Tank Id: Not reported
 Construction Desc:Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)Site		Database(s)	EPA ID Number

SAWGRASS RECREATION PARK (Continued)

U001342611

Facility ID:	8502591	Tank ID:	2
Facility Phone:	(954) 389-0202		
Facility Type:	Fuel User / Non-retail		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	Fuel user/Non-retail	Content Description:	Unleaded Gas
DEP Contrctr Own:	No	Facility Status:	OPEN
Substance:			
Description:	Unleaded gas		
Gallons:	250		
Category:	Vehicular Fuels		
Regulation Began:	1986-07-01		
Tank Status:	In service	Status Date:	01-MAY-2003
Install Date:	Not reported		
Owner Id:	50925	Owner Phone:	(954) 389-0202
Owner Name:	ANDYTOWN ENTERPRISES INC		
Owner Contact:	GINGER BAKER		
Owner Address:	PO BOX 291620 FORT LAUDERDALE, FL 33329		
Tank Construction:			
Tank Id:	Not reported		
Construction Desc:	Not reported		
Category:	Not reported		
Description:	Not reported		
Petro Monitoring:			
Monitoring Desc:	Not reported		
Category:	Not reported		
Description:	Not reported		
Tank Piping:			
Piping Desc:	Not reported		
Category:	Not reported		
Description:	Not reported		

15	WEEKLEY ASPHALT PAVING, INC.	FINDS	1007131532
	20701 STIRLING ROAD		110015786988
	PEMBROKE PINES, FL 33332		

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 AEROMETRIC INFORMATION RETRIEVAL SYSTEM/AIRS FACILITY SYSTEM

16	FT LAUDERDALE BMBTAR#8	FUDS	1007212680
	FORT LAUDERDALE, FL		N/A

FUDS:

Federal Facility ID:	FL9799F7140
Facility Name:	FT LAUDERDALE BMBTAR#8
City:	FORT LAUDERDALE
State:	FL
EPA Region:	4
County:	BROWARD
Congressional District:	23
US Army District:	Jacksonville District (SAJ)
Fiscal Year:	2003

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

FT LAUDERDALE BMBTAR#8 (Continued)

1007212680

First Name: EUNICE
 Last name: FORD
 Phone: 904-232-2235
 Inst ID: 56309
 CTC: Not reported
 RAB: Not reported

17 **BROWARD CORRECTIONAL INSTITUTN**
20421 SW 72 ST
PEMBROKE PINES, FL 33332

BROWARD CO. HM S105212760
N/A

HAZMAT:
 Document Id: 9223

17 **EVERGLADES WORKCENTER**
20421 SW 72 ST
PEMBROKE PINES, FL 33332

BROWARD CO. HM S105213196
N/A

HAZMAT:
 Document Id: 9512

17 **FL DEPT OF CORRECTIONS-BROWARD**
20421 SW 72ND ST
PEMBROKE PINES, FL 33024

UST U003340134
AST N/A

UST:
 Facility ID: 8732069 Facility Type: State Government
 Facility Phone: (954) 434-0050 Facility Status: OPEN
 Owner Id: 7301
 Owner Name: FL DEPT OF CORRECTIONS
 Owner Address: 2601 BLAIR STONE RD
 ATTN: TERRY KNEPPER
 TALLAHASSEE, FL 32399
 Owner Contact: STEVEN YU (850) 922-3945
 Owner Phone: (850) 410-4095
 Tank Content Desc: State Government
 Type Description: State Government
 Tank Id: 1 Vessel Indicator: TANK
 Tank Location: UNDERGROUND
 Substance:
 Description: Unleaded gas
 Gallons: 600
 Category: Vehicular Fuels
 Regulation Began: 1986-07-01
 Tank Status: Removed Tank Status Date: 31-MAY-1993
 Install Date: 01-JUL-1975
 Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported
 Petro Monitoring:

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

FL DEPT OF CORRECTIONS-BROWARD (Continued)

U003340134

Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported
 Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 8732069
 Facility Phone: (954) 434-0050
 Owner Id: 7301
 Owner Name: FL DEPT OF CORRECTIONS
 Owner Address: 2601 BLAIR STONE RD

Facility Type: State Government
 Facility Status: OPEN

ATTN: TERRY KNEPPER
 TALLAHASSEE, FL 32399
 Owner Contact: STEVEN YU (850) 922-3945
 Owner Phone: (850) 410-4095

Tank Content Desc: State Government
 Type Description: State Government
 Tank Id: 2

Vessel Indicator: TANK

Tank Location: UNDERGROUND
 Substance:
 Description: Diesel-emergen generator
 Gallons: 2000
 Category: Petroleum Pollutant
 Regulation Began: 1991-04-01

Tank Status: Removed
 Install Date: 01-JUL-1975

Tank Status Date: 30-APR-1993

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

AST:

Facility ID: 8732069
 Facility Phone: (954) 434-0050
 Facility Type: State Government
 Tank Location: ABOVEGROUND
 Type Description: State Government
 DEP Contrctr Own: No

Tank ID: 4

Substance:
 Description: Unleaded gas
 Gallons: 500
 Category: Vehicular Fuels
 Regulation Began: 1986-07-01

Vessel Indicator: TANK
 Content Description: Unleaded Gas
 Facility Status: OPEN

Tank Status: In service
 Install Date: 01-JUN-1997
 Owner Id: 7301
 Owner Name: FL DEPT OF CORRECTIONS

Status Date: 01-JUN-1997
 Owner Phone: (850) 410-4095

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

FL DEPT OF CORRECTIONS-BROWARD (Continued)

U003340134

Owner Contact: STEVEN YU (850) 922-3945
 Owner Address: 2601 BLAIR STONE RD
 ATTN: TERRY KNEPPER
 TALLAHASSEE, FL 32399

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 8732069
 Facility Phone: (954) 434-0050
 Facility Type: State Government
 Tank Location: ABOVEGROUND
 Type Description: State Government
 DEP Contrctr Own: No

Tank ID: 3

Vessel Indicator: TANK
 Content Description: Unleaded Gas
 Facility Status: OPEN

Substance:
 Description: Unleaded gas
 Gallons: 500
 Category: Vehicular Fuels
 Regulation Began: 1986-07-01

Tank Status: In service
 Install Date: 01-JUL-1993
 Owner Id: 7301

Status Date: 01-JUL-1993

Owner Phone: (850) 410-4095

Owner Name: FL DEPT OF CORRECTIONS
 Owner Contact: STEVEN YU (850) 922-3945
 Owner Address: 2601 BLAIR STONE RD
 ATTN: TERRY KNEPPER
 TALLAHASSEE, FL 32399

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site
 Database(s)
 EPA ID Number
 EDR ID Number

17 CONTINENTAL HOMES/CHAPEL TRAIL FINDS 1005580885
 SW 208TH AVE & SHERIDAN ST 110009090955
 PEMBROKE PINES, FL 33029

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 PERMIT COMPLIANCE SYSTEM

18 BROWARD CNTY INTERIM CONTINGENCY LF (BIC SWF/LF S101011652
 U.S.27 / SHERIDAN STREET N/A
 PEMBROKE PINES, FL 33332

LF:
 Facility Status: ACTIVE
 Responsible Authority Name : BROWARD COUNTY UTILITIES DIV
 Responsible Authority Address: 2401 N POWERLINE RD
 POMPANO BEACH, FL 33069
 Responsible Authority Phone : (954) 971-6220
 GMS_ID: 5006C92105
 Class Type: 100
 Section: 02
 Range: 39E
 Lat/Long: 26:2:24.73 / 80:25:25.57
 Facility ID: 00053328
 District : SED

18 SUNBELT RENTALS AST A100202717
 21100 SHERIDAN ST N/A
 PEMBROKE PINES, FL 33331

AST:
 Facility ID: 9804640 Tank ID: 1
 Facility Phone: (954) 447-3365
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND Vessel Indicator: TANK
 Type Description: Fuel user/Non-retail Content Description: Unleaded Gas
 DEP Contrctr Own: No Facility Status: OPEN
 Substance:
 Description: Unleaded gas
 Gallons: 2000
 Category: Vehicular Fuels
 Regulation Began:1986-07-01
 Tank Status: In service Status Date: 01-FEB-2002
 Install Date: 01-FEB-2002
 Owner Id: 48521 Owner Phone: (704) 969-0202
 Owner Name: SUNBELT RENTALS INC
 Owner Contact: BONNIE CARTER SR STAFF ACCT
 Owner Address: PO BOX 410328
 ATTN: BONNIE CARTER
 CHARLOTTE, NC 28241

Tank Construction:
 Tank Id: 1
 Construction Desc: Fiberglass clad steel
 Category: Primary Construction
 Description: Fiberglass Clad steel

Tank Id: 1

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SUNBELT RENTALS (Continued)

A100202717

Construction Desc: Spill containment bucket
 Category: Overfill/Spill
 Description: Spill containment bucket

Tank Id: 1
 Construction Desc: Compartmented
 Category: Miscellaneous Attributes
 Description: Compartmented

Tank Id: 1
 Construction Desc: Double wall - tank jacket
 Category: Secondary Containment
 Description: Dbl wall;dual mat;outr pipe of appr syn or jacket

Petro Monitoring:
 Monitoring Desc: Visual inspection of ASTs
 Category: Q
 Description: Q

Monitoring Desc: Monitor tank bottom space
 Category: Tank Monitoring
 Description: Interstitial monitoring of tank bottom

Monitoring Desc: Not required
 Category: Site/General
 Description: Not required - See Rule For Exemptions

Tank Piping:
 Piping Desc: Abv, no soil contact
 Category: Miscellaneous Attributes
 Description: Aboveground-no contact with soil

Piping Desc: Suction piping system
 Category: Miscellaneous Attributes
 Description: Suction piping system

19

**HAMILTON M. & BLANCHE C. FORMAN CHRISTIA
 20000 SHERIDAN ST
 PEMBROKE PINES, FL 33029**

BROWARD CO. NOV

**S103298809
 N/A**

Broward County Notice of Violation:
 Code Violated: 27-333(A)
 Notice of Violation: 07/02/96
 Facility Status: Withdrawn
 Date Closed: 12/02/96

Code Violated: 27-333(A)
 Notice of Violation: 07/02/96
 Facility Status: Withdrawn
 Date Closed: 10/17/96

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site
 Database(s)
 EPA ID Number
 EDR ID Number

20 **LINDER INDUSTRIAL MACHINERY CO** **BROWARD CO. HM** **S104520939**
20900 TAFT ST **N/A**
PEMBROKE PINES, FL 33029
 HAZMAT:
 Document Id: 7353

21 **BRIGHT BRASS & METAL COATING CO** **RCRA-SQG** **1001960219**
20911 JOHNSON ST #129 **FINDS** **FLR000062174**
PEMBROKE PINES, FL 33029
 RCRAInfo:
 Owner: ANA I JIMENEZ
 (954) 430-4656
 EPA ID: FLR000062174
 Contact: ANA I JIMENEZ
 (954) 430-4656
 Classification: Small Quantity Generator
 TSDF Activities: Not reported
 Violation Status: No violations found
 FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

21 **MASTER TECH AUTO REPAIR INC** **BROWARD CO. HM** **S103297703**
911 NW 209 AVE **N/A**
PEMBROKE PINES, FL 33029
 HAZMAT:
 Document Id: 7538

21 **GATOR FREIGHTWAYS INC** **UST** **U002275317**
1000 NW 209TH AVE **BROWARD CO. HM** **N/A**
PEMBROKE PINES, FL 33029 **AST**
 HAZMAT:
 Document Id: 4173
 UST:
 Facility ID: 9401207 Facility Type: Fuel User / Non-retail
 Facility Phone: (954) 432-2600 Facility Status: OPEN
 Owner Id: 18408
 Owner Name: R & L CARRIERS
 Owner Address: PO BOX 8000
 ATTN: RICK DUKEN
 WILMINGTON, OH 45177
 Owner Contact: RICK DUKEN
 Owner Phone: (800) 543-5589
 Tank Content Desc: Fuel user/Non-retail
 Type Description: Fuel user/Non-retail
 Tank Id: 5 Vessel Indicator: TANK

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

GATOR FREIGHTWAYS INC (Continued)

U002275317

Tank Location:	UNDERGROUND		
Substance:			
Description:	Z		
Gallons:	1500		
Category:	Exempt Substances		
Regulation Began:	1986-07-01		
Tank Status:	In service	Tank Status Date:	23-JAN-1996
Install Date:	01-OCT-1994		
Tank Construction:			
Tank Id:	Not reported		
Construction Desc:	Not reported		
Category:	Not reported		
Description:	Not reported		
Petro Monitoring:			
Monitoring Desc:	Not reported		
Category:	Not reported		
Description:	Not reported		
Tank Piping:			
Piping Desc:	Not reported		
Category:	Not reported		
Description:	Not reported		
Facility ID:	9401207	Facility Type:	Fuel User / Non-retail
Facility Phone:	(954) 432-2600	Facility Status:	OPEN
Owner Id:	18408		
Owner Name:	R & L CARRIERS		
Owner Address:	PO BOX 8000 ATTN: RICK DUKEN WILMINGTON, OH 45177		
Owner Contact:	RICK DUKEN		
Owner Phone:	(800) 543-5589		
Tank Content Desc:	Fuel user/Non-retail		
Type Description:	Fuel user/Non-retail		
Tank Id:	4	Vessel Indicator:	TANK
Tank Location:	UNDERGROUND		
Substance:			
Description:	Vehicular diesel		
Gallons:	10000		
Category:	Vehicular Fuels		
Regulation Began:	1986-07-01		
Tank Status:	In service	Tank Status Date:	01-OCT-1994
Install Date:	01-OCT-1994		
Tank Construction:			
Tank Id:	4		
Construction Desc:	Double wall		
Category:	Secondary Containment		
Description:	Dbl wall; single mat; out tnk amt = in tmk mat		
Tank Id:	4		
Construction Desc:	Steel		
Category:	Primary Construction		
Description:	Steel		
Tank Id:	4		
Construction Desc:	Level gauges/alarms		
Category:	Overfill/Spill		
Description:	Level gauges/hi level alarms		

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

GATOR FREIGHTWAYS INC (Continued)

U002275317

Petro Monitoring:
 Monitoring Desc: Manually sampled wells
 Category: External Tk Monitoring
 Description: Manually Sampled Wells

Monitoring Desc: Visual inspect pipe sumps
 Category: Miscellaneous
 Description: Visual Inspections of Piping Sumps

Monitoring Desc: Visual inspect dispenser liners
 Category: Miscellaneous
 Description: Visual Inspection of Dispenser Liners

Monitoring Desc: Electronic monitor pipe sumps
 Category: Miscellaneous
 Description: Electronic Monitoring of Piping Sumps

Monitoring Desc: Monitor dbl wall tank space
 Category: Tank Monitoring
 Description: Interstitial space - Double wall tank

Tank Piping:
 Piping Desc: Steel/galvanized metal
 Category: Primary Construction
 Description: Steel or Galvanized Metal

Piping Desc: Suction piping system
 Category: Miscellaneous Attributes
 Description: Suction piping system

Piping Desc: Dispenser liners
 Category: Miscellaneous Attributes
 Description: Dispenser liners

Facility ID: 9401207
 Facility Phone: (954) 432-2600
 Owner Id: 18408
 Owner Name: R & L CARRIERS
 Owner Address: PO BOX 8000
 ATTN: RICK DUKEN
 WILMINGTON, OH 45177

Facility Type: Fuel User / Non-retail
 Facility Status: OPEN

Owner Contact: RICK DUKEN
 Owner Phone: (800) 543-5589
 Tank Content Desc: Fuel user/Non-retail
 Type Description: Fuel user/Non-retail
 Tank Id: 3
 Tank Location: UNDERGROUND
 Substance:
 Description: Vehicular diesel
 Gallons: 10000
 Category: Vehicular Fuels
 Regulation Began: 1986-07-01
 Tank Status: In service
 Install Date: 01-OCT-1994
 Tank Construction:
 Tank Id: 3
 Construction Desc: Double wall
 Category: Secondary Containment

Vessel Indicator: TANK

Tank Status Date: 01-OCT-1994

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

GATOR FREIGHTWAYS INC (Continued)

U002275317

Description: Dbl wall; single mat; out tnk amt = in tmk mat

Tank Id: 3
 Construction Desc: Steel
 Category: Primary Construction
 Description: Steel

Tank Id: 3
 Construction Desc: Level gauges/alarms
 Category: Overfill/Spill
 Description: Level gauges/hi level alarms

Tank Id: 3
 Construction Desc: Sacrificial anode CP
 Category: Corrosion Protection
 Description: Cathodically protected-sacrificial anode

Petro Monitoring:
 Monitoring Desc: Manually sampled wells
 Category: External Tk Monitoring
 Description: Manually Sampled Wells

Monitoring Desc: Visual inspect pipe sumps
 Category: Miscellaneous
 Description: Visual Inspections of Piping Sumps

Monitoring Desc: Visual inspect dispenser liners
 Category: Miscellaneous
 Description: Visual Inspection of Dispenser Liners

Monitoring Desc: Electronic monitor pipe sumps
 Category: Miscellaneous
 Description: Electronic Monitoring of Piping Sumps

Monitoring Desc: Monitor dbl wall tank space
 Category: Tank Monitoring
 Description: Interstitial space - Double wall tank

Tank Piping:
 Piping Desc: Steel/galvanized metal
 Category: Primary Construction
 Description: Steel or Galvanized Metal

Piping Desc: Suction piping system
 Category: Miscellaneous Attributes
 Description: Suction piping system

Piping Desc: Dispenser liners
 Category: Miscellaneous Attributes
 Description: Dispenser liners

FL UST Broward County:

Location ID: 586138
 Install Date: 1/18/94
 Tank Size: 10000.0000
 Tank Type: UG
 State ID: 069401207

Location ID: 586138
 Install Date: 1/18/94

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

GATOR FREIGHTWAYS INC (Continued)

U002275317

Tank Size: 10000.0000
 Tank Type: UG
 State ID: 069401207

Location ID: 586138
 Install Date: 1/18/94
 Tank Size: 1500.0000
 Tank Type: UG
 State ID: 069401207

AST:

Facility ID: 9401207
 Facility Phone: (954) 432-2600
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No
 Substance:
 Description: Unknown/Not reported
 Gallons: 15000
 Category: Vehicular Fuels
 Regulation Began:1986-07-01
 Tank Status: Deleted
 Install Date: 01-APR-1991
 Owner Id: 18408
 Owner Name: R & L CARRIERS
 Owner Contact: RICK DUKEN
 Owner Address: PO BOX 8000
 ATTN: RICK DUKEN
 WILMINGTON, OH 45177

Tank ID: 2
 Vessel Indicator: TANK
 Content Description: Unknown/Not Reported
 Facility Status: OPEN

Tank Construction:
 Tank Id: Not reported
 Construction Desc:Not reported
 Category: Not reported
 Description: Not reported
 Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported
 Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Status Date: 01-JAN-1991
 Owner Phone: (800) 543-5589

Facility ID: 9401207
 Facility Phone: (954) 432-2600
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No
 Substance:
 Description: Unknown/Not reported
 Gallons: 15000
 Category: Vehicular Fuels
 Regulation Began:1986-07-01
 Tank Status: Deleted
 Install Date: 01-APR-1991
 Owner Id: 18408

Tank ID: 1
 Vessel Indicator: TANK
 Content Description: Unknown/Not Reported
 Facility Status: OPEN

Status Date: 01-JAN-1991
 Owner Phone: (800) 543-5589

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

GATOR FREIGHTWAYS INC (Continued)

U002275317

Owner Name: R & L CARRIERS
 Owner Contact: RICK DUKEN
 Owner Address: PO BOX 8000
 ATTN: RICK DUKEN
 WILMINGTON, OH 45177

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

**22 PEMBROKE PINES,CITY-FUEL STATION #3
 21451 JOHNSON ST
 PEMBROKE PINES, FL 33029**

**AST U003107906
 N/A**

AST:

Facility ID:	8622552	Tank ID:	1
Facility Phone:	(305) 431-4500		
Facility Type:	Fuel User / Non-retail		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	Fuel user/Non-retail	Content Description:	Leaded Gas
DEP Contrctr Own:	No	Facility Status:	OPEN
Substance:			
Description:	Leaded gas		
Gallons:	500		
Category:	Vehicular Fuels		
Regulation Began:	1986-07-01		
Tank Status:	In service	Status Date:	Not reported
Install Date:	01-JUL-1984		
Owner Id:	16657	Owner Phone:	(954) 437-1111
Owner Name:	PEMBROKE PINES CITY UTILITY DEPT		
Owner Contact:	TAJ SIDDIQUI		
Owner Address:	13975 PEMBROKE RD ATTN: TAJ SIDDIQUI DIRECTOR PEMBROKE PINES, FL 33027		

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

MAP FINDINGS

Map ID		EDR ID Number
Direction		
Distance		
Distance (ft.)Site	Database(s)	EPA ID Number

23	BERGERON SAND & ROCK MINI	MINES	M100019515
			N/A

BROWARD (County), FL

U.S. MINES:

Mine ID: 0800633	SIC Codes: 14220 00000 00000 00000 00000 00000
Entity Name: HOLLYWOOD PIT	Company: BERGERON SAND & ROCK MINI
State FIPS code: 12	County FIPS code: 011
Status Date: 06/30/1996	Status: permanently abandoned
Operation Class: Non-coal mining	Number of Shops: 0
Number of Pits: 000	Number of Plants: 0
Latitude: 26 00 50	Longitude: 080 25 03

23	EPIK COMMUNICATIONS	AST	A100179878
	21011 JOHNSON ST		N/A
	PEMBROKE PINES, FL 33332		

AST:

Facility ID: 9803876	Tank ID: 2	
Facility Phone: (727) 235-4285		
Facility Type: Fuel User / Non-retail		
Tank Location: ABOVEGROUND	Vessel Indicator: TANK	
Type Description: Fuel user/Non-retail	Content Description: Emerg Generator Diesel	
DEP Contrctr Own: No	Facility Status: CLOSED	
Substance:		
Description: Diesel-emergen generator		
Gallons: 3000		
Category: Petroleum Pollutant		
Regulation Began: 1991-04-01		
Tank Status: Enclosed/modified	Status Date: 01-NOV-2003	
Install Date: 01-AUG-2001		
Owner Id: 51061	Owner Phone: (727) 235-4285	
Owner Name: EPIK COMMUNICATIONS		
Owner Contact: KURT STRAUB (EMAIL: KSTRAUB1@CFL.RR.COM)		
Owner Address: 3501 QUADRANGLE BLVD		
ATTN: KURT STRAUB		
ORLANDO, FL 32817		

Tank Construction:

Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:

Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:

Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9803876	Tank ID: 1	
Facility Phone: (727) 235-4285		
Facility Type: Fuel User / Non-retail		
Tank Location: ABOVEGROUND	Vessel Indicator: TANK	
Type Description: Fuel user/Non-retail	Content Description: Emerg Generator Diesel	
DEP Contrctr Own: No	Facility Status: CLOSED	
Substance:		
Description: Diesel-emergen generator		
Gallons: 1000		
Category: Petroleum Pollutant		

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

EPIK COMMUNICATIONS (Continued)

A100179878

Regulation Began: 1991-04-01

Tank Status:	Removed	Status Date:	01-AUG-2001
Install Date:	01-APR-2001		
Owner Id:	51061	Owner Phone:	(727) 235-4285
Owner Name:	EPIK COMMUNICATIONS		
Owner Contact:	KURT STRAUB (EMAIL: KSTRAUB1@CFL.RR.COM)		
Owner Address:	3501 QUADRANGLE BLVD ATTN: KURT STRAUB ORLANDO, FL 32817		

Tank Construction:

Tank Id:	Not reported
Construction Desc:	Not reported
Category:	Not reported
Description:	Not reported

Petro Monitoring:

Monitoring Desc:	Not reported
Category:	Not reported
Description:	Not reported

Tank Piping:

Piping Desc:	Not reported
Category:	Not reported
Description:	Not reported

23	<p>MIAMI MANAGEMENT MAINT INC 21011 JOHNSON ST PEMBROKE PINES, FL 33029</p> <p>HAZMAT: Document Id: 7699</p>	<p>BROWARD CO. HM</p>	<p>S104521158 N/A</p>
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24	<p>PEMBROKE PINES CITY 21800 N 7 MNR PEMBROKE PINES, FL 33029</p> <p>FL BROWARD COUNTY EDIEAR: Facility ID: 0832 Region: BROWARD Facility Type: FUEL FACILITY Facility Department: 069102722 Program Type: FDEP Pollutant Type: DIESEL Lead Agency: BCDPEP Site Studies: Not reported Remedy Selected: No Remedy Design: No Cleanup Ongoing: No Project Completed: No Environmental Assessment Remediation License: Not reported Wellfield Site: Not reported Wellfield Site 2: Yes</p>	<p>Broward Co. EDIEAR</p>	<p>S104144668 N/A</p>
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MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

**24 PEMBROKE PINES CITY-HOLLY LAKE PUMP ST
 21800 N 7TH MANOR
 PEMBROKE PINES, FL 33029**

**LUST U002220134
 UST N/A**

LUST:

Facility ID:	9102722	Region:	STATE
Facility District:	Southeast District		
Section:	Not reported	Township:	Not reported
Range:	Not reported	Lat/long:	26° 0' 51.884600" / 80° 26' 20.912500"
Facility Status:	OPEN	Facility Type:	H - Local Government -
Operator:	DON BAUER		
Facility Phone:	(954) 437-1111		
Related Party:	PEMBROKE PINES CITY UTILITY DEPT		
Related Party Addr:	13975 PEMBROKE RD ATTN: TAJ SIDDIQUI DIRECTOR PEMBROKE PINES, FL 33027		
RP Bad Address:	No		
Related Party ID:	16657	Related Party Role:	ACCOUNT OWNER
Related Prty Contact:	TAJ SIDDIQUI		
Related Party Phone:	(954) 437-1111	RP Phone Ext:	Not reported
Related Party Begin:	09-12-1991		
Name Update:	Not reported	Address Update:	06-12-2001
Facility Cleanup Score:	9		
Facility Cleanup Rank:	11086		
Score Effective Date:	04-21-2003		
Score When Ranked:	9		
Feature:	Not reported		
Method:	AGPS		
Datum:	0		
Discharge Date:	02-21-1997		
Pct Discharge Combined With:	Not reported		
Information Source:	-		
Other Source Description:	Not reported		
Score Effective Date:	04-21-2003		
Score:	9		
Cleanup Required :	R - CLEANUP REQUIRED		
Discharge Cleanup Status :	ENTD - ELIGIBLE - NO TASK LEVEL DATA		
Disch Cleanup Status Dt :	10-09-2000		
Cleanup Work Status :	INACTIVE		
Eligibility Indicator :	E		
Site Manager :	Not reported		
Site Mgr End Date :	Not reported		
Tank Office :	-		
Rank :	11086		
Facility Status :	OPEN		
Facility Type :	H - Local Government - Local Government		
Discharge Date :	02-21-1997		
Discharge Combined With :	Not reported		
Cleanup Required :	R - CLEANUP REQUIRED		
Discharge Cleanup Status :	ENTD - ELIGIBLE - NO TASK LEVEL DATA		
Disch Cleanup Status Dt :	10-09-2000		
Cleanup Work Status :	INACTIVE		
Eligibility Indicator :	E		
Site Manager :	Not reported		
Site Mgr End Date :	Not reported		
Tank Office :	-		
RAP Task ID:	0		
RAP Cleanup Responsible ID:	-		

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

PEMBROKE PINES CITY-HOLLY LAKE PUMP ST (Continued)

U002220134

RAP Funding Elig Type: -
 RAP Last Order Approved: Not reported
 RAP Actual Completion Date: Not reported
 RAP Payment Date: Not reported
 RAP Actual Cost: Not reported
 RA Task ID: 0
 RA Actual Cost: Not reported
 RA Cleanup Responsible: -
 RA Funding Elig Type: -
 Ra Years to Complete: Not reported
 SRC Completion Status: -
 SRC Completion Status Dt: Not reported
 SRC Action Type: -
 SRC Submit Date: Not reported
 SRC Review Date: Not reported
 SRC Issue Date: Not reported
 SRC Comment: Not reported
 SA ID: 0
 SA Cleanup Responsible: -
 SA Actual Completion Date: Not reported
 SA Payment Date: Not reported
 SA Funding Elig Type: -
 SA Actual Cost: Not reported
 SR Task ID: 0
 SR Cleanup Responsible: -
 SR Oral Date: Not reported
 SR Written Date: Not reported
 Free Product Removal: Not reported
 Soil Removal: Not reported
 Soil Tonnage Removed: Not reported
 Soil Treatment: Not reported
 Other Treatment: Not reported
 SR Actual Completion Date: Not reported
 SR Funding Elig Type: -
 SR Payment Date: Not reported
 SR Actual Cost: Not reported
 SR Alternate Procedure Comments: Not reported
 SR Alternate Procedure Status: Not reported
 SR Alternate Procedure Status Date: Not reported
 SR Alternate Procedure Recieved: Not reported
 Score : 9
 Score Ranked : 9
 Score Effective : 04-21-2003
 Rank : 11086
 Facility Status : OPEN
 Facility Type : H - Local Government -
 Facility Phone : (954) 437-1111
 Operator : DON BAUER
 Name Update : Not reported
 Address Update : 06-12-2001
 Primary Responsible Party Id : 16657
 Primary Responsible Party Role : ACCOUNT OWNER
 Responsible Party Begin Date : 09-12-1991
 Responsible Party Name : PEMBROKE PINES CITY UTILITY DEPT
 District : SED
 Sec Facility Address : Not reported
 Lat / Long : 26° 0' 52" / 80° 26' 21"

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

PEMBROKE PINES CITY-HOLLY LAKE PUMP ST (Continued)

U002220134

Feature :	Not reported
Method :	AGPS
Datum :	0
Section :	Not reported
Township :	Not reported
Range :	Not reported
Responsible Party Address:	13975 PEMBROKE RD ATTN: TAJ SIDDIQUI DIRECTOR PEMBROKE PINES, FL 33027 - 0
Responsible Party Phone :	(954) 437-1111
Responsible Party Extension :	Not reported
Contact :	TAJ SIDDIQUI
Responsible Party Bad Address :	No
District :	Not reported
Facility Id :	Not reported
Discharge Date :	Not reported
Disc Combined With :	Not reported
Cleanup Required :	Not reported
Disch Cleanup Status :	Not reported
Disch Cleanup Status Dt :	Not reported
Cleanup Work Status :	Not reported
Information Source :	Not reported
Other Source :	Not reported
Elig Indicator :	Not reported
Site Manager :	Not reported
Site Manager End Date :	Not reported
Tank Office :	Not reported
Score :	Not reported
Score Effective Date :	Not reported
Rank :	Not reported
Contaminated Drinking Wells :	Not reported
Contaminated Monitoring Wells :	Not reported
Contaminated Soil :	Not reported
Contaminated Surface Water :	Not reported
Contaminated Ground Water :	Not reported
Pollutant :	Not reported
Other Description :	Not reported
Gallons Discharged :	Not reported
District :	SED
County Code :	6
Facility Id :	9102722
Discharge Date :	02-21-1997
Discharge Combined With :	Not reported
Cleanup Required :	R - CLEANUP REQUIRED
Discharge Cleanup Status :	ENTD - ELIGIBLE - NO TASK LEVEL DATA
Disc Cleanup Status Date :	10-09-2000
Cleanup Work Status :	INACTIVE
Information Source :	-
Other Source :	Not reported
Application Received Dt :	04-03-1997
Cleanup Program :	P - PETROLEUM LIABILITY AND RESTORATION INSURANCE PROGRAM
Eligibility Status :	E - ELIGIBLE
Elig Status Date :	07-28-1997
Letter Of Intent Dt :	07-24-1997
Elig Letter Sent :	07-28-1997
Redetermined :	N

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

PEMBROKE PINES CITY-HOLLY LAKE PUMP ST (Continued)

U002220134

Inspection Date : 02-26-1997
 Site Manager : Not reported
 Site Manager End Date : Not reported
 Tank Office : -
 Score : 9
 Score Effective Date : 04-21-2003
 Rank : 11086
 Deductible Amount : \$10,000.00
 Deductible Paid To Date : \$0.00
 Co-pay Amount : Not reported
 Co-pay Paid To Date : \$0.00
 Cap Amount : \$150,000.00
 Cap To Date : 0.00

UST:

Facility ID: 9102722 Facility Type: Local Government
 Facility Phone: (954) 437-1111 Facility Status: OPEN
 Owner Id: 16657
 Owner Name: PEMBROKE PINES CITY UTILITY DEPT
 Owner Address: 13975 PEMBROKE RD
 ATTN: TAJ SIDDIQUI DIRECTOR
 PEMBROKE PINES, FL 33027

Owner Contact: TAJ SIDDIQUI
 Owner Phone: (954) 437-1111
 Tank Content Desc: Local Government
 Type Description: Local Government
 Tank Id: 1 Vessel Indicator: TANK
 Tank Location: UNDERGROUND
 Substance:
 Description: Diesel-emergen generator
 Gallons: 8000
 Category: Petroleum Pollutant
 Regulation Began: 1991-04-01
 Tank Status: In service Tank Status Date: Not reported
 Install Date: 01-JUL-1990

Tank Construction:
 Tank Id: 1
 Construction Desc: Fiberglass
 Category: Primary Construction
 Description: Fiberglass

Tank Id: 1
 Construction Desc: Double wall
 Category: Secondary Containment
 Description: Dbl wall; single mat; out tnk amt = in tmk mat

Tank Id: 1
 Construction Desc: Spill containment bucket
 Category: Overfill/Spill
 Description: Spill containment bucket

Petro Monitoring:
 Monitoring Desc: Automatically sampled wells
 Category: External Tk Monitoring
 Description: Automatically Sampled Wells

Monitoring Desc: Manually sampled wells
 Category: External Tk Monitoring
 Description: Manually Sampled Wells

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

PEMBROKE PINES CITY-HOLLY LAKE PUMP ST (Continued)

U002220134

Monitoring Desc: Manual tank gauging - USTs
 Category: Tank Monitoring
 Description: Manual tank gauging system
 Tank Piping:
 Piping Desc: Fiberglass
 Category: Primary Construction
 Description: Fiberglass

 Piping Desc: Double wall
 Category: Secondary Containment
 Description: Dbl wall;single mat;out pipe mat = in pip mat

FL UST Broward County:
 Location ID: 587351
 Install Date: 7/1/90
 Tank Size: 8000.0000
 Tank Type: UG
 State ID: 069102722

**25 AT&T ANDYTOWN SOUTH
 0 U S HWY 27 & PINES BLVD
 PEMBROKE PINES, FL 33029**

**UST U003360578
 BROWARD CO. HM N/A**

HAZMAT:
 Document Id: 4812

 FL UST Broward County:
 Location ID: 587937
 Install Date: 3/3/91
 Tank Size: 1000.0000
 Tank Type: UG
 State ID: 068627883

**26 AMERICAN TOWERS
 US 27 HOLLYWOOD BLVD
 HOLLYWOOD, FL 33020**

**UST U001343112
 N/A**

UST:
 Facility ID: 8627883 Facility Type: Fuel User / Non-retail
 Facility Phone: (770) 308-1970 Facility Status: CLOSED
 Owner Id: 51686
 Owner Name: AMERICAN TOWER MGMT INC
 Owner Address: 651 CORPORATE CIRCLE #108
 ATTN: ROBIN SOGAN
 GOLDEN, CO 80401
 Owner Contact: ROBIN SOGAN
 Owner Phone: (305) 244-2556
 Tank Content Desc: Fuel user/Non-retail
 Type Description: Fuel user/Non-retail
 Tank Id: 2 Vessel Indicator: TANK
 Tank Location: UNDERGROUND
 Substance:
 Description: Diesel-emergen generator
 Gallons: 1000
 Category: Petroleum Pollutant
 Regulation Began: 1991-04-01
 Tank Status: Removed Tank Status Date: 01-JUL-2002
 Install Date: 01-DEC-1990

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

AMERICAN TOWERS (Continued)

U001343112

Tank Construction:

Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:

Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:

Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 8627883
 Facility Phone: (770) 308-1970
 Owner Id: 51686
 Owner Name: AMERICAN TOWER MGMT INC
 Owner Address: 651 CORPORATE CIRCLE #108
 ATTN: ROBIN SOGAN
 GOLDEN, CO 80401

Facility Type:
 Facility Status: Fuel User / Non-retail
 CLOSED

Owner Contact: ROBIN SOGAN
 Owner Phone: (305) 244-2556
 Tank Content Desc: Fuel user/Non-retail
 Type Description: Fuel user/Non-retail

Tank Id: 1
 Tank Location: UNDERGROUND

Vessel Indicator: TANK

Substance:
 Description: Diesel-emergen generator
 Gallons: 4000
 Category: Petroleum Pollutant
 Regulation Began: 1991-04-01

Tank Status: Removed
 Install Date: 01-JUL-1964

Tank Status Date: 31-DEC-1990

Tank Construction:

Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:

Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:

Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

27

**SOUTH FILL INC
 300 N 208TH AVE
 PEMBROKE PINES, FL 33024**

**AST S101229872
 N/A**

AST:

Facility ID: 8838158
 Facility Phone: (305) 791-3455
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No

Tank ID: 1
 Vessel Indicator: TANK
 Content Description: Vehicular Diesel
 Facility Status: CLOSED

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

BLUE HAVEN CLEANER INC (Continued)

1001487120

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 AEROMETRIC INFORMATION RETRIEVAL SYSTEM/AIRS FACILITY SYSTEM
 RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

HAZMAT:

Document Id: 7216

DRYCLN:

Facility Status:	OPEN	Facility Type Desc:	Drycleaner
Facility ID:	9801732	Start Date:	1999-06-29
Facility Type:	Drycleaner	Facility Tel:	(954) 442-1030
Owner ID:	48891	Contact:	ROCH POIRIER
Address:	20170 PINES BLVD PEMBROKE PINES, FL 33029		
Owner Role:	ACCOUNT OWNER	RP Phone:	(954) 563-5125

Facility Status:	OPEN	Facility Type Desc:	Drycleaner
Facility ID:	9801732	Start Date:	1999-06-29
Facility Type:	Drycleaner	Facility Tel:	(954) 442-1030
Owner ID:	48891	Contact:	ROCH POIRIER
Address:	20170 PINES BLVD PEMBROKE PINES, FL 33029		
Owner Role:	FACILITY OWNER	RP Phone:	(954) 563-5125

Facility Status:	OPEN	Facility Type Desc:	Drycleaner
Facility ID:	9801732	Start Date:	1999-06-29
Facility Type:	Drycleaner	Facility Tel:	(954) 442-1030
Owner ID:	48892	Contact:	DAVID BRAUN, PR
Address:	1601 N PALM AVE #301 PEMBROKE PINES, FL 33029		
Owner Role:	PROPERTY OWNER	RP Phone:	(954) 432-2900

29 HARDRIVES COMPANY

**MINES M100019366
 N/A**

BROWARD (County), FL

U.S. MINES:

Mine ID:	0800484	SIC Codes:	14220 00000 00000 00000 00000 00000
Entity Name:	SNAKE CREEK QUARRY	Company:	HARDRIVES COMPANY
State FIPS code:	12	County FIPS code:	011
Status Date:	04/17/1984	Status:	permanently abandoned
Operation Class:	Non-coal mining	Number of Shops:	0
Number of Pits:	000	Number of Plants:	0
Latitude:	25 59 57	Longitude:	080 24 13

**30 MIRAMAR, SUNSET LAKES TEMP F S
 2700 SW 186 AVE
 MIRAMAR, FL 33029**

**BROWARD CO. HM S105212534
 N/A**

HAZMAT:

Document Id: 9224

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

31 REUTER RECYCLING OF FLORIDA
 20701 PEMBROKE RD
 PEMBROKE PINES, FL 33029

BROWARD CO. HM S104153856
 N/A

HAZMAT:
 Document Id: 4953

31 REUTER RECYCLING OF FLORIDA INC
 20701 PEMBROKE RD
 PEMBROKE PINES, FL 33029

AST S101223666
 N/A

AST:

Facility ID:	9401795	Tank ID:	1
Facility Phone:	(954) 443-9408		
Facility Type:	Fuel User / Non-retail		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	Fuel user/Non-retail	Content Description:	Vehicular Diesel
DEP Contrctr Own:	No	Facility Status:	OPEN
Substance:			
Description:	Vehicular diesel		
Gallons:	2000		
Category:	Vehicular Fuels		
Regulation Began:	1986-07-01		
Tank Status:	In service	Status Date:	01-SEP-1994
Install Date:	01-SEP-1994		
Owner Id:	37801	Owner Phone:	(954) 436-9500
Owner Name:	REUTER RECYCLING OF FLORIDA INC		
Owner Contact:	JIM STEPHENS		
Owner Address:	PO BOX 297110 ATTN: TREVOR ROBERTS PEMBROKE PINES, FL 33029		

Tank Construction:

Tank Id: 1
 Construction Desc: Double wall
 Category: Secondary Containment
 Description: Dbl wall; single mat; out tnk amt = in tmk mat

Tank Id: 1
 Construction Desc: Spill containment bucket
 Category: Overfill/Spill
 Description: Spill containment bucket

Tank Id: 1
 Construction Desc: Concrete
 Category: Primary Construction
 Description: Concrete

Petro Monitoring:

Monitoring Desc: Visual inspection of ASTs
 Category: Q
 Description: Q

Tank Piping:

Piping Desc: Abv, no soil contact
 Category: Miscellaneous Attributes
 Description: Aboveground-no contact with soil

Piping Desc: Suction piping system
 Category: Miscellaneous Attributes
 Description: Suction piping system

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site
 Database(s)
 EPA ID Number
 EDR ID Number

31 REUTER RECYCLING OF FLORIDA, I
 20701 PEMBROKE ROAD
 PEMBROKE PINES, FL 33029 FINDS 1005815216
 110009077872

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 PERMIT COMPLIANCE SYSTEM

31 U.S.A. WASTE SYSTEMS, INC.
 PEMBROKE ROAD / NW 208 AVENUE SWF/LF S102656949
 PEMBROKE PINES, FL N/A

LF:
 Facility Status: INACTIVE
 Responsible Authority Name : CAROLYN MCCREEDY
 Responsible Authority Address: 10800 NE 128 AVENUE
 OKEECHOBEE, FL 34972
 Responsible Authority Phone : (941) 357-0111
 GMS_ID: 5006P07646
 Class Type: 750
 Section: 23
 Range: 39E
 Lat/Long: 25:59:38.51 / 80:25:23.77
 Facility ID: 00055456
 District : SED

31 REUTER RECYCLING OF FLORIDA INC.
 5/8 MILES EAST OFF HWY 27 PEM. SWF/LF S101646533
 PEMBROKE PINES, FL N/A

LF:
 Facility Status: ACTIVE
 Responsible Authority Name : REUTER RECYLING INC.
 Responsible Authority Address: 410 11 AVE SO.
 HOPKINS, MN 55343
 Responsible Authority Phone : (612) 935-6921
 GMS_ID: 5006P02326
 Class Type: 700
 Section: 23
 Range: 39E
 Lat/Long: 25:59:45.05 / 80:25:18.08
 Facility ID: 00054128
 District : SED

32 MOBIL #02-TCX #18523
 18495 MIRAMAR PKY UST U003798672
 MIRAMAR, FL 33029 N/A

UST:
 Facility ID: 9803183 Facility Type: Retail Station
 Facility Phone: (954) 538-0312 Facility Status: OPEN
 Owner Id: 14745
 Owner Name: EXXONMOBIL OIL CORP %VEEDER-ROOT
 Owner Address: 12265 W BAYAUD AVE #300
 ATTN: VEEDER-ROOT CMS
 LAKEWOOD, CO 80228
 Owner Contact: ERIC MCPHEE

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

MOBIL #02-TCX #18523 (Continued)

U003798672

Owner Phone: (303) 986-8011
 Tank Content Desc: Retail Station
 Type Description: Retail Station
 Tank Id: 3 Vessel Indicator: TANK
 Tank Location: UNDERGROUND
 Substance:
 Description: Vehicular diesel
 Gallons: 8000
 Category: Vehicular Fuels
 Regulation Began: 1986-07-01
 Tank Status: In service Tank Status Date: 01-JUL-2000
 Install Date: 01-JUL-2000
 Tank Construction:
 Tank Id: 3
 Construction Desc: Fiberglass
 Category: Primary Construction
 Description: Fiberglass

 Tank Id: 3
 Construction Desc: Ball check valve
 Category: Overfill/Spill
 Description: Ball Check Valve

 Tank Id: 3
 Construction Desc: Tight fill
 Category: Overfill/Spill
 Description: Tight fill

 Tank Id: 3
 Construction Desc: Level gauges/alarms
 Category: Overfill/Spill
 Description: Level gauges/hi level alarms

 Tank Id: 3
 Construction Desc: Double wall
 Category: Secondary Containment
 Description: Dbl wall; single mat; out tnk amt = in tmk mat
 Petro Monitoring:
 Monitoring Desc: Monitor dbl wall tank space
 Category: Tank Monitoring
 Description: Interstitial space - Double wall tank

 Monitoring Desc: Electronic line leak detector
 Category: Piping Monitoring
 Description: Line leak detector with electronic flow shutoff

 Monitoring Desc: Visual inspect pipe sumps
 Category: Miscellaneous
 Description: Visual Inspections of Piping Sumps

 Monitoring Desc: Visual inspect dispenser liners
 Category: Miscellaneous
 Description: Visual Inspection of Dispenser Liners
 Tank Piping:
 Piping Desc: Fiberglass
 Category: Primary Construction
 Description: Fiberglass

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

MOBIL #02-TCX #18523 (Continued)

U003798672

Piping Desc: Double wall
 Category: Secondary Containment
 Description: Dbl wall;single mat;out pipe mat = in pip mat

Piping Desc: Pressurized piping system
 Category: Miscellaneous Attributes
 Description: Pressurized piping system

Piping Desc: Dispenser liners
 Category: Miscellaneous Attributes
 Description: Dispenser liners

Facility ID: 9803183 Facility Type: Retail Station
 Facility Phone: (954) 538-0312 Facility Status: OPEN
 Owner Id: 14745
 Owner Name: EXXONMOBIL OIL CORP %VEEDER-ROOT
 Owner Address: 12265 W BAYAUD AVE #300
 ATTN: VEEDER-ROOT CMS
 LAKEWOOD, CO 80228

Owner Contact: ERIC MCPHEE
 Owner Phone: (303) 986-8011

Tank Content Desc:Retail Station

Type Description: Retail Station

Tank Id: 2

Vessel Indicator: TANK

Tank Location: UNDERGROUND

Substance:

Description: Unleaded gas

Gallons: 12000

Category: Vehicular Fuels

Regulation Began:1986-07-01

Tank Status: In service

Tank Status Date: 01-JUL-2000

Install Date: 01-JUL-2000

Tank Construction:

Tank Id: 2

Construction Desc:Fiberglass

Category: Primary Construction

Description: Fiberglass

Tank Id: 2

Construction DescBall check valve

Category: Overfill/Spill

Description: Ball Check Valve

Tank Id: 2

Construction Desc:Tight fill

Category: Overfill/Spill

Description: Tight fill

Tank Id: 2

Construction DescLevel gauges/alarms

Category: Overfill/Spill

Description: Level gauges/hi level alarms

Tank Id: 2

Construction DescDouble wall

Category: Secondary Containment

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

MOBIL #02-TCX #18523 (Continued)

U003798672

Description: Dbl wall; single mat; out tnk amt = in tmk mat
 Petro Monitoring:
 Monitoring Desc: Monitor dbl wall tank space
 Category: Tank Monitoring
 Description: Interstitial space - Double wall tank

Monitoring Desc: Electronic line leak detector
 Category: Piping Monitoring
 Description: Line leak detector with electronic flow shutoff

Monitoring Desc: Visual inspect pipe sumps
 Category: Miscellaneous
 Description: Visual Inspections of Piping Sumps

Monitoring Desc: Visual inspect dispenser liners
 Category: Miscellaneous
 Description: Visual Inspection of Dispenser Liners

Tank Piping:
 Piping Desc: Fiberglass
 Category: Primary Construction
 Description: Fiberglass

Piping Desc: Double wall
 Category: Secondary Containment
 Description: Dbl wall;single mat;out pipe mat = in pip mat

Piping Desc: Pressurized piping system
 Category: Miscellaneous Attributes
 Description: Pressurized piping system

Piping Desc: Dispenser liners
 Category: Miscellaneous Attributes
 Description: Dispenser liners

Facility ID: 9803183 Facility Type: Retail Station
 Facility Phone: (954) 538-0312 Facility Status: OPEN
 Owner Id: 14745
 Owner Name: EXXONMOBIL OIL CORP %VEEDER-ROOT
 Owner Address: 12265 W BAYAUD AVE #300
 ATTN: VEEDER-ROOT CMS
 LAKEWOOD, CO 80228

Owner Contact: ERIC MCPHEE
 Owner Phone: (303) 986-8011

Tank Content Desc: Retail Station

Type Description: Retail Station

Tank Id: 1 Vessel Indicator: TANK

Tank Location: UNDERGROUND

Substance:
 Description: Unleaded gas
 Gallons: 12000
 Category: Vehicular Fuels
 Regulation Began: 1986-07-01

Tank Status: In service Tank Status Date: 01-JUL-2000

Install Date: 01-JUL-2000

Tank Construction:

Tank Id: 1
 Construction Desc: Fiberglass

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

MOBIL #02-TCX #18523 (Continued)

U003798672

Category: Primary Construction
 Description: Fiberglass

Tank Id: 1
 Construction Desc: Ball check valve
 Category: Overfill/Spill
 Description: Ball Check Valve

Tank Id: 1
 Construction Desc: Tight fill
 Category: Overfill/Spill
 Description: Tight fill

Tank Id: 1
 Construction Desc: Level gauges/alarms
 Category: Overfill/Spill
 Description: Level gauges/hi level alarms

Tank Id: 1
 Construction Desc: Double wall
 Category: Secondary Containment
 Description: Dbl wall; single mat; out tnk amt = in tmk mat

Petro Monitoring:
 Monitoring Desc: Monitor dbl wall tank space
 Category: Tank Monitoring
 Description: Interstitial space - Double wall tank

Monitoring Desc: Electronic line leak detector
 Category: Piping Monitoring
 Description: Line leak detector with electronic flow shutoff

Monitoring Desc: Visual inspect pipe sumps
 Category: Miscellaneous
 Description: Visual Inspections of Piping Sumps

Monitoring Desc: Visual inspect dispenser liners
 Category: Miscellaneous
 Description: Visual Inspection of Dispenser Liners

Tank Piping:
 Piping Desc: Fiberglass
 Category: Primary Construction
 Description: Fiberglass

Piping Desc: Double wall
 Category: Secondary Containment
 Description: Dbl wall;single mat;out pipe mat = in pip mat

Piping Desc: Pressurized piping system
 Category: Miscellaneous Attributes
 Description: Pressurized piping system

Piping Desc: Dispenser liners
 Category: Miscellaneous Attributes
 Description: Dispenser liners

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

**32 MOBIL STATION #02-TCX
 18495 MIRAMAR PKWY
 MIRAMAR, FL 33029**

**UST U003835826
 N/A**

FL UST Broward County:
 Location ID: 591662
 Install Date: 9/15/0
 Tank Size: 15000.0000
 Tank Type: UG
 State ID: Not reported

Location ID: 591662
 Install Date: 9/15/0
 Tank Size: 10000.0000
 Tank Type: UG
 State ID: Not reported

Location ID: 591662
 Install Date: 9/15/0
 Tank Size: 8000.0000
 Tank Type: UG
 State ID: Not reported

Location ID: 591662
 Install Date: 9/15/0
 Tank Size: 15000.0000
 Tank Type: UG
 State ID: Not reported

Location ID: 591662
 Install Date: 9/15/0
 Tank Size: 10000.0000
 Tank Type: UG
 State ID: Not reported

Location ID: 591662
 Install Date: 9/15/0
 Tank Size: 8000.0000
 Tank Type: UG
 State ID: Not reported

**33 THE SHOPS AT SUNSET LAKES
 SW 184TH AVE & MIRAMAR PKWY
 MIRAMAR, FL 33027**

**FINDS 1005592993
 110010119344**

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 PERMIT COMPLIANCE SYSTEM

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)Site		Database(s)	EPA ID Number

34	FT LAUDERDALE BMBTAR#7	FUDS	1007212682
			N/A

FORT LAUDERDALE, FL

FUDS:

Federal Facility ID:	FL9799F7139
Facility Name:	FT LAUDERDALE BMBTAR#7
City:	FORT LAUDERDALE
State:	FL
EPA Region:	4
County:	BROWARD
Congressional District:	21
US Army District:	Jacksonville District (SAJ)
Fiscal Year:	2003
First Name:	EUNICE
Last name:	FORD
Phone:	904-232-2235
Inst ID:	56790
CTC:	Not reported
RAB:	Not reported

35	DYNO NOBEL FLORIDA INCORPORATED	RCRA-SQG	1000176475
	4101 S.W. 196TH AVE.	FINDS	FLD981025802
	MIRAMAR, FL 33023		

RCRAInfo:

Owner:	CLAY FOWLER, PLANT MGR
	(305) 432-3065
EPA ID:	FLD981025802
Contact:	Not reported
Classification:	Small Quantity Generator
TSDF Activities:	Not reported
Violation Status:	No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM
 TOXIC CHEMICAL RELEASE INVENTORY SYSTEM

36	DYNO NOBEL FLORIDA	AST	S103297304
	4101 SW 196TH AVE		N/A
	MIRAMAR, FL 33027		

AST:

Facility ID:	9200883	Tank ID:	13
Facility Phone:	(305) 862-6999		
Facility Type:	Chemical User	Vessel Indicator:	TANK
Tank Location:	ABOVEGROUND	Content Description:	Unleaded Gas
Type Description:	Chemical user	Facility Status:	CLOSED
DEP Contrctr Own:	No		
Substance:			
Description:	Unleaded gas		
Gallons:	4000		
Category:	Vehicle Fuels		
Regulation Began:	1986-07-01		
Tank Status:	Removed	Status Date:	01-NOV-1995
Install Date:	01-NOV-1995		
Owner Id:	10857	Owner Phone:	(305) 823-6999

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

DYNO NOBEL FLORIDA (Continued)

S103297304

Owner Name: DYNO NOBEL INC
 Owner Contact: CLAY FOWLER OR DEE WHIFFORD
 Owner Address: 11420 NW 134TH ST
 ATTN: CLAY FOWLER
 MIAMI, FL 33178

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9200883
 Facility Phone: (305) 862-6999
 Facility Type: Chemical User
 Tank Location: ABOVEGROUND
 Type Description: Chemical user
 DEP Contrctr Own: No

Tank ID: 12
 Vessel Indicator: TANK
 Content Description: Petroleum Additive
 Facility Status: CLOSED

Substance:
 Description: Petroleum additive
 Gallons: 560
 Category: Petroleum Pollutant
 Regulation Began: 1991-04-01

Tank Status: Removed
 Install Date: 01-JUL-1981
 Owner Id: 10857
 Owner Name: DYNO NOBEL INC
 Owner Contact: CLAY FOWLER OR DEE WHIFFORD
 Owner Address: 11420 NW 134TH ST
 ATTN: CLAY FOWLER
 MIAMI, FL 33178

Status Date: 25-JAN-1999
 Owner Phone: (305) 823-6999

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9200883
 Facility Phone: (305) 862-6999
 Facility Type: Chemical User
 Tank Location: ABOVEGROUND
 Type Description: Chemical user

Tank ID: 11
 Vessel Indicator: TANK
 Content Description: Waste Oil

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

DYNO NOBEL FLORIDA (Continued)

S103297304

DEP Contrctr Own: No	Facility Status:	CLOSED
Substance:		
Description: Waste oil		
Gallons: 560		
Category: Petroleum Pollutant		
Regulation Began:1991-04-01		
Tank Status: Removed	Status Date:	25-JAN-1999
Install Date: 01-JUL-1981		
Owner Id: 10857	Owner Phone:	(305) 823-6999
Owner Name: DYNO NOBEL INC		
Owner Contact: CLAY FOWLER OR DEE WHIFFORD		
Owner Address: 11420 NW 134TH ST		
ATTN: CLAY FOWLER		
MIAMI, FL 33178		

Tank Construction:
 Tank Id: Not reported
 Construction Desc:Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9200883	Tank ID:	9
Facility Phone: (305) 862-6999		
Facility Type: Chemical User		
Tank Location: ABOVEGROUND	Vessel Indicator:	TANK
Type Description: Chemical user	Content Description:	Vehicular Diesel
DEP Contrctr Own: No	Facility Status:	CLOSED

Substance:		
Description: Vehicular diesel		
Gallons: 2000		
Category: Vehicular Fuels		
Regulation Began:1986-07-01		
Tank Status: Removed	Status Date:	25-JAN-1999
Install Date: 01-JUL-1981		
Owner Id: 10857	Owner Phone:	(305) 823-6999
Owner Name: DYNO NOBEL INC		
Owner Contact: CLAY FOWLER OR DEE WHIFFORD		
Owner Address: 11420 NW 134TH ST		
ATTN: CLAY FOWLER		
MIAMI, FL 33178		

Tank Construction:
 Tank Id: Not reported
 Construction Desc:Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

DYNO NOBEL FLORIDA (Continued)

S103297304

Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9200883
 Facility Phone: (305) 862-6999
 Facility Type: Chemical User
 Tank Location: ABOVEGROUND
 Type Description: Chemical user
 DEP Contrctr Own: No

Tank ID: 7

Vessel Indicator: TANK
 Content Description: Petroleum Additive
 Facility Status: CLOSED

Substance:
 Description: Petroleum additive
 Gallons: 2000
 Category: Petroleum Pollutant
 Regulation Began: 1991-04-01

Tank Status: Removed

Status Date: 25-JAN-1999

Install Date: 01-JUL-1985

Owner Id: 10857

Owner Phone: (305) 823-6999

Owner Name: DYNO NOBEL INC
 Owner Contact: CLAY FOWLER OR DEE WHIFFORD
 Owner Address: 11420 NW 134TH ST
 ATTN: CLAY FOWLER
 MIAMI, FL 33178

Tank Construction:

Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:

Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:

Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9200883
 Facility Phone: (305) 862-6999
 Facility Type: Chemical User
 Tank Location: ABOVEGROUND
 Type Description: Chemical user
 DEP Contrctr Own: No

Tank ID: 5

Vessel Indicator: TANK
 Content Description: Petroleum Additive
 Facility Status: CLOSED

Substance:
 Description: Petroleum additive
 Gallons: 2000
 Category: Petroleum Pollutant
 Regulation Began: 1991-04-01

Tank Status: Removed

Status Date: 25-JAN-1999

Install Date: 01-JUL-1981

Owner Id: 10857

Owner Phone: (305) 823-6999

Owner Name: DYNO NOBEL INC
 Owner Contact: CLAY FOWLER OR DEE WHIFFORD
 Owner Address: 11420 NW 134TH ST
 ATTN: CLAY FOWLER
 MIAMI, FL 33178

Tank Construction:

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

DYNO NOBEL FLORIDA (Continued)

S103297304

Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported
 Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported
 Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9200883
 Facility Phone: (305) 862-6999
 Facility Type: Chemical User
 Tank Location: ABOVEGROUND
 Type Description: Chemical user
 DEP Contrctr Own: No

Tank ID: 3

Vessel Indicator: TANK
 Content Description: Ammonia Compound
 Facility Status: CLOSED

Substance:
 Description: Ammonia compound
 Gallons: 12000
 Category: WQ Pollutant
 Regulation Began: 1992-04-01

Tank Status: Removed
 Install Date: 01-JUL-1981
 Owner Id: 10857
 Owner Name: DYNO NOBEL INC
 Owner Contact: CLAY FOWLER OR DEE WHIFFORD
 Owner Address: 11420 NW 134TH ST
 ATTN: CLAY FOWLER
 MIAMI, FL 33178

Status Date: 25-JAN-1999

Owner Phone: (305) 823-6999

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9200883
 Facility Phone: (305) 862-6999
 Facility Type: Chemical User
 Tank Location: ABOVEGROUND
 Type Description: Chemical user
 DEP Contrctr Own: No

Tank ID: 1

Vessel Indicator: TANK
 Content Description: Ammonia Compound
 Facility Status: CLOSED

Substance:
 Description: Ammonia compound
 Gallons: 12000
 Category: WQ Pollutant
 Regulation Began: 1992-04-01

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

DYNO NOBEL FLORIDA (Continued)

S103297304

Tank Status:	Removed	Status Date:	25-JAN-1999
Install Date:	01-JUL-1990		
Owner Id:	10857	Owner Phone:	(305) 823-6999
Owner Name:	DYNO NOBEL INC		
Owner Contact:	CLAY FOWLER OR DEE WHIFFORD		
Owner Address:	11420 NW 134TH ST ATTN: CLAY FOWLER MIAMI, FL 33178		

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID:	9200883	Tank ID:	2
Facility Phone:	(305) 862-6999		
Facility Type:	Chemical User	Vessel Indicator:	TANK
Tank Location:	ABOVEGROUND	Content Description:	Ammonia Compound
Type Description:	Chemical user	Facility Status:	CLOSED
DEP Contrctr Own:	No		

Substance:
 Description: Ammonia compound
 Gallons: 12000
 Category: WQ Pollutant
 Regulation Began: 1992-04-01

Tank Status:	Removed	Status Date:	25-JAN-1999
Install Date:	01-JUL-1981		
Owner Id:	10857	Owner Phone:	(305) 823-6999
Owner Name:	DYNO NOBEL INC		
Owner Contact:	CLAY FOWLER OR DEE WHIFFORD		
Owner Address:	11420 NW 134TH ST ATTN: CLAY FOWLER MIAMI, FL 33178		

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID:	9200883	Tank ID:	4
Facility Phone:	(305) 862-6999		

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

DYNO NOBEL FLORIDA (Continued)

S103297304

Facility Type:	Chemical User	Vessel Indicator:	TANK
Tank Location:	ABOVEGROUND	Content Description:	Petroleum Additive
Type Description:	Chemical user	Facility Status:	CLOSED
DEP Contrctr Own:	No		
Substance:			
Description:	Petroleum additive		
Gallons:	2000		
Category:	Petroleum Pollutant		
Regulation Began:	1991-04-01		
Tank Status:	Removed	Status Date:	25-JAN-1999
Install Date:	01-JUL-1981		
Owner Id:	10857	Owner Phone:	(305) 823-6999
Owner Name:	DYNO NOBEL INC		
Owner Contact:	CLAY FOWLER OR DEE WHIFFORD		
Owner Address:	11420 NW 134TH ST ATTN: CLAY FOWLER MIAMI, FL 33178		

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID:	9200883	Tank ID:	6
Facility Phone:	(305) 862-6999		
Facility Type:	Chemical User	Vessel Indicator:	TANK
Tank Location:	ABOVEGROUND	Content Description:	Vehicular Diesel
Type Description:	Chemical user	Facility Status:	CLOSED
DEP Contrctr Own:	No		
Substance:			
Description:	Vehicular diesel		
Gallons:	8000		
Category:	Vehicular Fuels		
Regulation Began:	1986-07-01		
Tank Status:	Removed	Status Date:	25-JAN-1999
Install Date:	01-JUL-1985		
Owner Id:	10857	Owner Phone:	(305) 823-6999
Owner Name:	DYNO NOBEL INC		
Owner Contact:	CLAY FOWLER OR DEE WHIFFORD		
Owner Address:	11420 NW 134TH ST ATTN: CLAY FOWLER MIAMI, FL 33178		

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

DYNO NOBEL FLORIDA (Continued)

S103297304

Category: Not reported
 Description: Not reported
 Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9200883
 Facility Phone: (305) 862-6999
 Facility Type: Chemical User
 Tank Location: ABOVEGROUND
 Type Description: Chemical user
 DEP Contrctr Own: No

Tank ID: 8

Vessel Indicator: TANK
 Content Description: Petroleum Additive
 Facility Status: CLOSED

Substance:
 Description: Petroleum additive
 Gallons: 2000
 Category: Petroleum Pollutant
 Regulation Began:1991-04-01

Tank Status: Removed

Status Date: 25-JAN-1999

Install Date: 01-JUL-1985

Owner Phone: (305) 823-6999

Owner Id: 10857
 Owner Name: DYNO NOBEL INC
 Owner Contact: CLAY FOWLER OR DEE WHIFFORD
 Owner Address: 11420 NW 134TH ST
 ATTN: CLAY FOWLER
 MIAMI, FL 33178

Tank Construction:
 Tank Id: Not reported
 Construction Desc:Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9200883
 Facility Phone: (305) 862-6999
 Facility Type: Chemical User
 Tank Location: ABOVEGROUND
 Type Description: Chemical user
 DEP Contrctr Own: No

Tank ID: 10

Vessel Indicator: TANK
 Content Description: Unleaded Gas
 Facility Status: CLOSED

Substance:
 Description: Unleaded gas
 Gallons: 1000
 Category: Vehicular Fuels
 Regulation Began:1986-07-01

Tank Status: Removed

Status Date: 25-JAN-1999

Install Date: 01-JUL-1991

Owner Phone: (305) 823-6999

Owner Id: 10857
 Owner Name: DYNO NOBEL INC
 Owner Contact: CLAY FOWLER OR DEE WHIFFORD
 Owner Address: 11420 NW 134TH ST

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

DYNO NOBEL FLORIDA (Continued)

S103297304

ATTN: CLAY FOWLER
 MIAMI, FL 33178

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported
 Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported
 Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

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**MIRAMAR ROCK
 4104 SW 196TH AVE
 MIRAMAR, FL 33027**

**AST S101225624
 N/A**

AST:

Facility ID: 8943882	Tank ID: 13
Facility Phone: Not reported	
Facility Type: Fuel User / Non-retail	
Tank Location: ABOVEGROUND	Vessel Indicator: TANK
Type Description: Fuel user/Non-retail	Content Description: New/Lube Oil
DEP Contrctr Own: No	Facility Status: CLOSED
Substance: Description: New/lube oil	
Gallons: 250	
Category: Petroleum Pollutant	
Regulation Began: 1991-04-01	
Tank Status: Removed	Status Date: 01-MAR-1996
Install Date: 01-OCT-1989	
Owner Id: 14664	Owner Phone: (305) 431-2700
Owner Name: MIRAMAR LAKES INC	
Owner Contact: RAY KNOWLES	
Owner Address: 7100-39 FAIRWAY DR #307-F PALM BEACH GARDE, FL 33418	

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported
 Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported
 Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 8943882	Tank ID: 8
Facility Phone: Not reported	
Facility Type: Fuel User / Non-retail	
Tank Location: ABOVEGROUND	Vessel Indicator: TANK
Type Description: Fuel user/Non-retail	Content Description: New/Lube Oil
DEP Contrctr Own: No	Facility Status: CLOSED

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

MIRAMAR ROCK (Continued)

S101225624

Facility ID:	8943882	Tank ID:	9
Facility Phone:	Not reported		
Facility Type:	Fuel User / Non-retail		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	Fuel user/Non-retail	Content Description:	New/Lube Oil
DEP Contrctr Own:	No	Facility Status:	CLOSED
Substance:			
Description:	New/lube oil		
Gallons:	250		
Category:	Petroleum Pollutant		
Regulation Began:	1991-04-01		
Tank Status:	Removed	Status Date:	01-MAR-1996
Install Date:	01-OCT-1989		
Owner Id:	14664	Owner Phone:	(305) 431-2700
Owner Name:	MIRAMAR LAKES INC		
Owner Contact:	RAY KNOWLES		
Owner Address:	7100-39 FAIRWAY DR #307-F PALM BEACH GARDE, FL 33418		

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported
 Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported
 Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID:	8943882	Tank ID:	12
Facility Phone:	Not reported		
Facility Type:	Fuel User / Non-retail		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	Fuel user/Non-retail	Content Description:	New/Lube Oil
DEP Contrctr Own:	No	Facility Status:	CLOSED
Substance:			
Description:	New/lube oil		
Gallons:	250		
Category:	Petroleum Pollutant		
Regulation Began:	1991-04-01		
Tank Status:	Removed	Status Date:	01-MAR-1996
Install Date:	01-OCT-1989		
Owner Id:	14664	Owner Phone:	(305) 431-2700
Owner Name:	MIRAMAR LAKES INC		
Owner Contact:	RAY KNOWLES		
Owner Address:	7100-39 FAIRWAY DR #307-F PALM BEACH GARDE, FL 33418		

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported
 Petro Monitoring:

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

MIRAMAR ROCK (Continued)

S101225624

Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported
 Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 8943882
 Facility Phone: Not reported
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No

Tank ID: 6

Vessel Indicator: TANK
 Content Description: New/Lube Oil
 Facility Status: CLOSED

Substance:
 Description: New/lube oil
 Gallons: 5000
 Category: Petroleum Pollutant
 Regulation Began:1991-04-01

Tank Status: Removed
 Install Date: 01-OCT-1989
 Owner Id: 14664
 Owner Name: MIRAMAR LAKES INC
 Owner Contact: RAY KNOWLES
 Owner Address: 7100-39 FAIRWAY DR #307-F
 PALM BEACH GARDE, FL 33418

Status Date: 01-MAR-1996

Owner Phone: (305) 431-2700

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 8943882
 Facility Phone: Not reported
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No

Tank ID: 4

Vessel Indicator: TANK
 Content Description: Unleaded Gas
 Facility Status: CLOSED

Substance:
 Description: Unleaded gas
 Gallons: 3000
 Category: Vehicular Fuels
 Regulation Began:1986-07-01

Tank Status: Removed
 Install Date: 01-OCT-1989
 Owner Id: 14664
 Owner Name: MIRAMAR LAKES INC
 Owner Contact: RAY KNOWLES
 Owner Address: 7100-39 FAIRWAY DR #307-F

Status Date: 01-NOV-1995

Owner Phone: (305) 431-2700

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

MIRAMAR ROCK (Continued)

S101225624

PALM BEACH GARDE, FL 33418

Tank Construction:

Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:

Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:

Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 8943882
 Facility Phone: Not reported
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No

Tank ID: 1

Vessel Indicator: TANK
 Content Description: Vehicular Diesel
 Facility Status: CLOSED

Substance:

Description: Vehicular diesel
 Gallons: 10000
 Category: Vehicular Fuels
 Regulation Began: 1986-07-01

Tank Status: Removed
 Install Date: 01-JUN-1988
 Owner Id: 14664

Status Date: 01-NOV-1995

Owner Phone: (305) 431-2700

Owner Name: MIRAMAR LAKES INC
 Owner Contact: RAY KNOWLES
 Owner Address: 7100-39 FAIRWAY DR #307-F
 PALM BEACH GARDE, FL 33418

Tank Construction:

Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:

Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:

Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 8943882
 Facility Phone: Not reported
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No

Tank ID: 10

Vessel Indicator: TANK
 Content Description: Misc Petrol-Based Product
 Facility Status: CLOSED

Substance:

Description: Misc. petrol-based product
 Gallons: 250
 Category: Petroleum Pollutant

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

MIRAMAR ROCK (Continued)

S101225624

Regulation Began:1991-04-01
 Tank Status: Removed Status Date: 01-MAR-1996
 Install Date: 01-OCT-1989
 Owner Id: 14664 Owner Phone: (305) 431-2700
 Owner Name: MIRAMAR LAKES INC
 Owner Contact: RAY KNOWLES
 Owner Address: 7100-39 FAIRWAY DR #307-F
 PALM BEACH GARDE, FL 33418

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 8943882 Tank ID: 11
 Facility Phone: Not reported
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND Vessel Indicator: TANK
 Type Description: Fuel user/Non-retail Content Description: New/Lube Oil
 DEP Contrctr Own: No Facility Status: CLOSED

Substance:
 Description: New/lube oil
 Gallons: 250
 Category: Petroleum Pollutant

Regulation Began:1991-04-01
 Tank Status: Removed Status Date: 01-MAR-1996
 Install Date: 01-OCT-1989
 Owner Id: 14664 Owner Phone: (305) 431-2700
 Owner Name: MIRAMAR LAKES INC
 Owner Contact: RAY KNOWLES
 Owner Address: 7100-39 FAIRWAY DR #307-F
 PALM BEACH GARDE, FL 33418

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 8943882 Tank ID: 2
 Facility Phone: Not reported
 Facility Type: Fuel User / Non-retail

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

MIRAMAR ROCK (Continued)

S101225624

Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	Fuel user/Non-retail	Content Description:	Vehicular Diesel
DEP Contrctr Own:	No	Facility Status:	CLOSED
Substance:			
Description:	Vehicular diesel		
Gallons:	10000		
Category:	Vehicular Fuels		
Regulation Began:	1986-07-01		
Tank Status:	Removed	Status Date:	01-NOV-1995
Install Date:	01-JUN-1988		
Owner Id:	14664	Owner Phone:	(305) 431-2700
Owner Name:	MIRAMAR LAKES INC		
Owner Contact:	RAY KNOWLES		
Owner Address:	7100-39 FAIRWAY DR #307-F PALM BEACH GARDE, FL 33418		
Tank Construction:			
Tank Id:	Not reported		
Construction Desc:	Not reported		
Category:	Not reported		
Description:	Not reported		
Petro Monitoring:			
Monitoring Desc:	Not reported		
Category:	Not reported		
Description:	Not reported		
Tank Piping:			
Piping Desc:	Not reported		
Category:	Not reported		
Description:	Not reported		
Facility ID:	8943882	Tank ID:	3
Facility Phone:	Not reported		
Facility Type:	Fuel User / Non-retail		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	Fuel user/Non-retail	Content Description:	Vehicular Diesel
DEP Contrctr Own:	No	Facility Status:	CLOSED
Substance:			
Description:	Vehicular diesel		
Gallons:	10000		
Category:	Vehicular Fuels		
Regulation Began:	1986-07-01		
Tank Status:	Removed	Status Date:	01-NOV-1995
Install Date:	01-JUN-1988		
Owner Id:	14664	Owner Phone:	(305) 431-2700
Owner Name:	MIRAMAR LAKES INC		
Owner Contact:	RAY KNOWLES		
Owner Address:	7100-39 FAIRWAY DR #307-F PALM BEACH GARDE, FL 33418		
Tank Construction:			
Tank Id:	Not reported		
Construction Desc:	Not reported		
Category:	Not reported		
Description:	Not reported		
Petro Monitoring:			
Monitoring Desc:	Not reported		
Category:	Not reported		
Description:	Not reported		
Tank Piping:			

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

MIRAMAR ROCK (Continued)

S101225624

Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 8943882
 Facility Phone: Not reported
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No

Tank ID: 5

Vessel Indicator: TANK
 Content Description: Waste Oil
 Facility Status: CLOSED

Substance:
 Description: Waste oil
 Gallons: 1000
 Category: Petroleum Pollutant
 Regulation Began: 1991-04-01

Tank Status: Removed

Status Date: 01-MAR-1996

Install Date: 01-OCT-1989

Owner Id: 14664

Owner Phone: (305) 431-2700

Owner Name: MIRAMAR LAKES INC

Owner Contact: RAY KNOWLES

Owner Address: 7100-39 FAIRWAY DR #307-F
 PALM BEACH GARDE, FL 33418

Tank Construction:

Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:

Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:

Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

**37 JOSE ELIO AND AIDA ROMAN
 18200 W OKEECHOBEE RD
 HIALEAH, FL 33018**

**Miami-Dade Co. IW2-4 S106021108
 N/A**

FL Industrial Waste:

Facility ID:	0015422	Permit Section:	IW5
Facility Code:	23.00	Region:	DADE
Shell Name:	PEN	File Number:	20546.00
Permitted:	Yes		

**38 OPA LOCKA AIRPORT
 OPA LOCKA AIRPORT
 MIAMI, FL**

**ERNS 89124920
 N/A**

[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

**39 CONTINENTAL FL MATERIALS MIAMI CNTY LINE
 13791 NW 186TH ST
 MIAMI, FL 33015**

**AST A100207513
 N/A**

AST:

Facility ID:	9801535	Tank ID:	1
Facility Phone:	(305) 223-7840		
Facility Type:	Fuel User / Non-retail		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	Fuel user/Non-retail	Content Description:	Vehicular Diesel
DEP Contrctr Own:	No	Facility Status:	OPEN
Substance:			
Description:	Vehicular diesel		
Gallons:	12000		
Category:	Vehicular Fuels		
Regulation Began:	1986-07-01		
Tank Status:	In service	Status Date:	01-NOV-1998
Install Date:	01-NOV-1998		
Owner Id:	45733	Owner Phone:	(954) 858-0788
Owner Name:	CONTINENTAL FLORIDA MATERIALS INC		
Owner Contact:	JACK RAIMONDI		
Owner Address:	13450 W SUNRISE BLVD #430 ATTN: JACK RAIMONDI SUNRISE, FL 33323		

Tank Construction:

Tank Id: 1
 Construction DescSteel
 Category: Primary Construction
 Description: Steel

Tank Id: 1
 Construction DescFlow shut-Off
 Category: Overfill/Spill
 Description: Flow shut off

Tank Id: 1
 Construction DescDouble wall
 Category: Secondary Containment
 Description: Dbl wall; single mat; out tnk amt = in tmk mat

Tank Id: 1
 Construction DescLevel gauges/alarms
 Category: Overfill/Spill
 Description: Level gauges/hi level alarms

Petro Monitoring:

Monitoring Desc: Monitor dbl wall tank space
 Category: Tank Monitoring
 Description: Interstitial space - Double wall tank

Monitoring Desc: None
 Category: Site/General
 Description: None

Monitoring Desc: Automatic tank gauging - USTs
 Category: Tank Monitoring
 Description: Auto tank gauging system

Tank Piping:

Piping Desc: Abv, no soil contact
 Category: Miscellaneous Attributes

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

CONTINENTAL FL MATERIALS MIAMI CNTY LINE (Continued)

A100207513

Description: Aboveground-no contact with soil

Piping Desc: Pressurized piping system
 Category: Miscellaneous Attributes
 Description: Pressurized piping system

Piping Desc: Approved synthetic material
 Category: Primary Construction
 Description: Approved synthetic material

Piping Desc: Internal pipe/internal sump riser
 Category: Secondary Containment
 Description: Internal Piping within internal sump riser

39

CONTINENTAL FLORIDA MATERIALS, INC.
13791 NW 186 ST
MIAMI, FL 33018

UST
Miami-Dade Co. IW2-4
Miami-Dade Co. AP
WASTEWATER

U003702698
N/A

FL Industrial Waste:

Facility ID:	0011931	Permit Section:	IW5
Facility Code:	22.00	Region:	DADE
Shell Name:	RBTO	File Number:	16155.00
Permitted:	Yes		

Dade County Air Permit:

Facility ID:	0001690	Facility Number:	16155.00
Permit Section:	AP	Region:	DADE
Facility Code:	No Violation		
Shell Name:	GEN		
Permitted:	Yes		

FL WW:

Facility ID:	FLG110172	District Office:	SED
Telephone:	(954) 858-0780	Owner Type:	Privately Owned
Facility Type:	Concrete Batch GP		
Facility Address:	Not reported		
Flag:	INDUSTRIAL		
Status:	Active - Existing, permitted facility/site for which effluent, reclaimed water or wastewater residual discharge into the environment and/or monitoring is taking place.		

NPDES Permitted Site: Yes

Domestic Water Class: Not reported

Permit Capacity: 0.00000

Party Name: MR JACK RAIMONDI, MANAGER, S&H

Responsible Party Address: 13450 W. SUNRISE BLVD., SUITE 430

RP Address 2: Not reported
 SUNRISE FL 33323

Treatment : SETTLING; DETENTION AND RETENTION

FL UST DADE COUNTY:

Facility ID: 0005850

Permit Section: UT

File Number: 16155.00

Shell Name: Not reported

Permitted: No

Facility Code: Not reported

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

39	METROMIX OF SOUTH FLORIDA PLAN 13791 NW 186 STREET MIAMI, FL 33015	FINDS	1005628246 110009129790
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FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 PERMIT COMPLIANCE SYSTEM

39	FLORIDA ROCK INDUSTRIES, INC. 13801 NW 186 ST HIALEAH, FL 33178	UST Miami-Dade Co. IW2-4 Miami-Dade Co. AP	U003703464 N/A
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FL Industrial Waste:

Facility ID:	0010229	Permit Section:	IW5
Facility Code:	22.00	Region:	DADE
Shell Name:	RBTO	File Number:	6407.00
Permitted:	Yes		

Dade County Air Permit:

Facility ID:	0002041	Facility Number:	6407.00
Permit Section:	AP	Region:	DADE
Facility Code:	No Violation		
Shell Name:	GEN		
Permitted:	Yes		

FL UST DADE COUNTY:

Facility ID:	0005548
Permit Section:	UT
File Number:	6407.00
Shell Name:	Not reported
Permitted:	No
Facility Code:	Not reported

39	FLORIDA ROCK INDUSTRIES INC 13801 NW 186TH ST HIALEAH, FL 33016	AST	1006271952 N/A
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AST:

Facility ID:	9602071	Tank ID:	1
Facility Phone:	(305) 594-4336		
Facility Type:	Fuel User / Non-retail	Vessel Indicator:	TANK
Tank Location:	ABOVEGROUND	Content Description:	Vehicular Diesel
Type Description:	Fuel user/Non-retail	Facility Status:	OPEN
DEP Contrctr Own:	No		
Substance:			
Description:	Vehicular diesel		
Gallons:	10000		
Category:	Vehicular Fuels		
Regulation Began:	1986-07-01		
Tank Status:	In service	Status Date:	01-OCT-1996
Install Date:	01-OCT-1996		
Owner Id:	7551	Owner Phone:	(904) 355-1781
Owner Name:	FL ROCK INDUSTRIES INC		
Owner Contact:	HUGH PERRY		
Owner Address:	PO BOX 4667		
	ATTN: HUGH PERRY-CONCRETE GROUP		
	JACKSONVILLE, FL 32202		

Tank Construction:

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

FLORIDA ROCK INDUSTRIES INC (Continued)

1006271952

Tank Id: 1
 Construction Desc: Steel
 Category: Primary Construction
 Description: Steel

Tank Id: 1
 Construction Desc: AST containment
 Category: Secondary Containment
 Description: Cn crt, synt mat; offsite clay bneth AST & cnmt area

Petro Monitoring:
 Monitoring Desc: Manually sampled wells
 Category: External Tk Monitoring
 Description: Manually Sampled Wells

Monitoring Desc: Visual inspection of ASTs
 Category: Q
 Description: Q

Tank Piping:
 Piping Desc: Abv, no soil contact
 Category: Miscellaneous Attributes
 Description: Aboveground-no contact with soil

Piping Desc: Steel/galvanized metal
 Category: Primary Construction
 Description: Steel or Galvanized Metal

Piping Desc: External protective coating
 Category: Corrosion Protection
 Description: External Protective Coating

**39 FLORIDA ROCK INDUSTRIES - HWY
 13801 NW 186TH STREET
 MIAMI, FL 33018**

**FINDS 1005691757
 110010051282**

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 PERMIT COMPLIANCE SYSTEM

**39 FLORIDA ROCK INDUSTRIES - HWY 27 PLANT
 13801 NW 186TH STREET
 MIAMI, FL**

**WASTEWATER S105028477
 N/A**

FL WW:
 Facility ID: FLG110258 District Office: SED
 Telephone: (904) 355-1781 Owner Type: Privately Owned
 Facility Type: Concrete Batch GP
 Facility Address: Not reported
 Flag: INDUSTRIAL
 Status: Active - Existing, permitted facility/site for which effluent, reclaimed water or wastewater residual discharge into the environment and/or monitoring is taking place.

NPDES Permitted Site: Yes
 Domestic Water Class: Not reported
 Permit Capacity: 0.00600
 Party Name: MR. HUGH PERRY, ENVIRONMENTAL DIRECTOR

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

FLORIDA ROCK INDUSTRIES - HWY 27 PLANT (Continued)

S105028477

Responsible Party Address: P.O. BOX 4667
 RP Address 2: 155 EAST 21ST STREET
 JACKSONVILLE FL 32201
 Treatment : SETTLING AND RECYCLING

**39 AMARALTO CONCRETE PLANT 2 (138
 13851 NW 186 ST
 MIAMI, FL 33018**

**FINDS 1005691726
 110010051371**

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 PERMIT COMPLIANCE SYSTEM

**39 AMARALTO CONCRETE
 13851 NW 186 ST
 MIAMI, FL 33018**

**UST
 Miami-Dade Co. IW2-4
 Miami-Dade Co. AP
 WASTEWATER**

**1004280686
 N/A**

FL Industrial Waste:

Facility ID:	0010851	Permit Section:	IW5
Facility Code:	22.00	Region:	DADE
Shell Name:	RBTO	File Number:	15446.00
Permitted:	Yes		

Dade County Air Permit:

Facility ID:	0001896	Facility Number:	15446.00
Permit Section:	AP	Region:	DADE
Facility Code:	No Monitoring Wells		
Shell Name:	GEN		
Permitted:	Yes		

FL WW:

Facility ID:	FLG110292	District Office:	SED
Telephone:	(305) 553-0200	Owner Type:	Privately Owned

Facility Type: Concrete Batch GP
 Facility Address: Not reported
 Flag: INDUSTRIAL
 Status: Active - Existing, permitted facility/site for which effluent, reclaimed water or wastewater residual discharge into the environment and/or monitoring is taking place.

NPDES Permitted Site: Yes
 Domestic Water Class: Not reported
 Permit Capacity: 0.00000
 Party Name: ANGEL LLIZO, PRESIDENT
 Responsible Party Address: 280 NW 129 AVE.
 RP Address 2: Not reported
 MIAMI FL 33182
 Treatment : Not reported

FL UST DADE COUNTY:

Facility ID: 0005526
 Permit Section: UT
 File Number: 15446.00
 Shell Name: Not reported
 Permitted: No
 Facility Code: Not reported

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

39	COMMUNITY ASPHALT 14005 N.W. 186TH STREET HIALEAH, FL 33018	FINDS	1005846045 110007019412
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FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 AEROMETRIC INFORMATION RETRIEVAL SYSTEM/AIRS FACILITY SYSTEM
 NATIONAL EMISSIONS INVENTORY
 TOXIC CHEMICAL RELEASE INVENTORY SYSTEM

39	COMMUNITY ASPHALT CORPORATION , FL	FINDS	1006299229 AST 110012322593
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FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 PERMIT COMPLIANCE SYSTEM

AST:

Facility ID: 9501729	Tank ID: 9	
Facility Phone: (305) 829-0700		
Facility Type: Fuel User / Non-retail		
Tank Location: ABOVEGROUND	Vessel Indicator: TANK	
Type Description: Fuel user/Non-retail	Content Description: Petroleum Additive	
DEP Contrctr Own: No	Facility Status: OPEN	
Substance:		
Description: Petroleum additive		
Gallons: 20000		
Category: Petroleum Pollutant		
Regulation Began: 1991-04-01		
Tank Status: In service	Status Date: 01-APR-1991	
Install Date: 01-APR-1991		
Owner Id: 4517	Owner Phone: (305) 829-0700	
Owner Name: COMMUNITY ASPHALT CORP		
Owner Contact: RUDY ROBLES		
Owner Address: 14005 NW 186TH ST		
ATTN: RODOLFO ROBLES		
HIALEAH, FL 33018		

Tank Construction:

Tank Id: 9	
Construction Desc: Steel	
Category: Primary Construction	
Description: Steel	
Tank Id: 9	
Construction Desc: DEP approved tank material	
Category: Primary Construction	
Description: Other DER approved tank material	

Petro Monitoring:

Monitoring Desc: Visual inspection of ASTs	
Category: Q	
Description: Q	
Tank Piping:	
Piping Desc: Abv, no soil contact	
Category: Miscellaneous Attributes	
Description: Aboveground-no contact with soil	
Piping Desc: Steel/galvanized metal	
Category: Primary Construction	
Description: Steel or Galvanized Metal	

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

COMMUNITY ASPHALT CORPORATION (Continued)

1006299229

Facility ID:	9501729	Tank ID:	8
Facility Phone:	(305) 829-0700		
Facility Type:	Fuel User / Non-retail		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	Fuel user/Non-retail	Content Description:	Petroleum Additive
DEP Contrctr Own:	No	Facility Status:	OPEN
Substance:			
Description:	Petroleum additive		
Gallons:	20000		
Category:	Petroleum Pollutant		
Regulation Began:	1991-04-01		
Tank Status:	In service	Status Date:	01-MAY-2004
Install Date:	01-APR-1991		
Owner Id:	4517	Owner Phone:	(305) 829-0700
Owner Name:	COMMUNITY ASPHALT CORP		
Owner Contact:	RUDY ROBLES		
Owner Address:	14005 NW 186TH ST ATTN: RODOLFO ROBLES HIALEAH, FL 33018		

Tank Construction:

Tank Id:	8
Construction Desc:	Steel
Category:	Primary Construction
Description:	Steel
Tank Id:	8
Construction Desc:	DEP approved tank material
Category:	Primary Construction
Description:	Other DER approved tank material

Petro Monitoring:

Monitoring Desc:	Visual inspection of ASTs
Category:	Q
Description:	Q

Tank Piping:

Piping Desc:	Abv, no soil contact
Category:	Miscellaneous Attributes
Description:	Aboveground-no contact with soil
Piping Desc:	Steel/galvanized metal
Category:	Primary Construction
Description:	Steel or Galvanized Metal

Facility ID:	9501729	Tank ID:	7
Facility Phone:	(305) 829-0700		
Facility Type:	Fuel User / Non-retail		
Tank Location:	ABOVEGROUND	Vessel Indicator:	TANK
Type Description:	Fuel user/Non-retail	Content Description:	Misc Petrol-Based Product
DEP Contrctr Own:	No	Facility Status:	OPEN
Substance:			
Description:	Misc. petrol-based product		
Gallons:	8000		
Category:	Petroleum Pollutant		
Regulation Began:	1991-04-01		
Tank Status:	In service	Status Date:	01-MAY-2004
Install Date:	01-JAN-1994		
Owner Id:	4517	Owner Phone:	(305) 829-0700

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

COMMUNITY ASPHALT CORPORATION (Continued)

1006299229

Owner Name: COMMUNITY ASPHALT CORP
 Owner Contact: RUDY ROBLES
 Owner Address: 14005 NW 186TH ST
 ATTN: RODOLFO ROBLES
 HIALEAH, FL 33018

Tank Construction:
 Tank Id: 7
 Construction Desc: Steel
 Category: Primary Construction
 Description: Steel

Tank Id: 7
 Construction Desc: AST containment
 Category: Secondary Containment
 Description: Cn crt, synt mat; offsite clay bneth AST & cnmt area

Petro Monitoring:
 Monitoring Desc: Visual inspection of ASTs
 Category: Q
 Description: Q

Tank Piping:
 Piping Desc: Abv, no soil contact
 Category: Miscellaneous Attributes
 Description: Aboveground-no contact with soil

Piping Desc: Steel/galvanized metal
 Category: Primary Construction
 Description: Steel or Galvanized Metal

Facility ID: 9501729
 Facility Phone: (305) 829-0700
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No
 Substance:
 Description: Z
 Gallons: 12000
 Category: Exempt Substances
 Regulation Began: 1986-07-01

Tank ID: 6
 Vessel Indicator: TANK
 Content Description: Other Non Regulated
 Facility Status: OPEN

Tank Status: In service
 Install Date: 01-JAN-1994
 Owner Id: 4517
 Owner Name: COMMUNITY ASPHALT CORP
 Owner Contact: RUDY ROBLES
 Owner Address: 14005 NW 186TH ST
 ATTN: RODOLFO ROBLES
 HIALEAH, FL 33018

Status Date: 01-JAN-1994
 Owner Phone: (305) 829-0700

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

COMMUNITY ASPHALT CORPORATION (Continued)

1006299229

Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID: 9501729
 Facility Phone: (305) 829-0700
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No

Tank ID: 5

Vessel Indicator: TANK
 Content Description: Petroleum Additive
 Facility Status: OPEN

Substance:
 Description: Petroleum additive
 Gallons: 10000
 Category: Petroleum Pollutant
 Regulation Began: 1991-04-01

Tank Status: In service
 Install Date: 01-JUN-1994

Status Date: 01-MAY-2004

Owner Id: 4517
 Owner Name: COMMUNITY ASPHALT CORP
 Owner Contact: RUDY ROBLES
 Owner Address: 14005 NW 186TH ST
 ATTN: RODOLFO ROBLES
 HIALEAH, FL 33018

Owner Phone: (305) 829-0700

Tank Construction:
 Tank Id: 5
 Construction Desc: Steel
 Category: Primary Construction
 Description: Steel

Tank Id: 5
 Construction Desc: AST containment
 Category: Secondary Containment
 Description: Cn crt, synt mat; offsite clay bneth AST & cnmt area

Petro Monitoring:
 Monitoring Desc: Not required
 Category: Site/General
 Description: Not required - See Rule For Exemptions

Monitoring Desc: None
 Category: Site/General
 Description: None

Tank Piping:
 Piping Desc: Steel/galvanized metal
 Category: Primary Construction
 Description: Steel or Galvanized Metal

Facility ID: 9501729
 Facility Phone: (305) 829-0700
 Facility Type: Fuel User / Non-retail
 Tank Location: ABOVEGROUND
 Type Description: Fuel user/Non-retail
 DEP Contrctr Own: No

Tank ID: 4

Vessel Indicator: TANK
 Content Description: Other Non Regulated
 Facility Status: OPEN

Substance:
 Description: Z
 Gallons: 20000
 Category: Exempt Substances
 Regulation Began: 1986-07-01

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

COMMUNITY ASPHALT CORPORATION (Continued)

1006299229

Tank Status:	Removed	Status Date:	09-JUN-1999
Install Date:	01-JUL-1989		
Owner Id:	4517	Owner Phone:	(305) 829-0700
Owner Name:	COMMUNITY ASPHALT CORP		
Owner Contact:	RUDY ROBLES		
Owner Address:	14005 NW 186TH ST ATTN: RODOLFO ROBLES HIALEAH, FL 33018		

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID:	9501729	Tank ID:	3
Facility Phone:	(305) 829-0700		
Facility Type:	Fuel User / Non-retail	Vessel Indicator:	TANK
Tank Location:	ABOVEGROUND	Content Description:	Fuel Oil - Onsite Heat
Type Description:	Fuel user/Non-retail	Facility Status:	OPEN
DEP Contrctr Own:	No		

Substance:
 Description: Fuel oil-on site heat
 Gallons: 20000
 Category: Exempt Substances
 Regulation Began: 1986-07-01

Tank Status:	In service	Status Date:	17-JUL-2003
Install Date:	01-JUL-1989		
Owner Id:	4517	Owner Phone:	(305) 829-0700
Owner Name:	COMMUNITY ASPHALT CORP		
Owner Contact:	RUDY ROBLES		
Owner Address:	14005 NW 186TH ST ATTN: RODOLFO ROBLES HIALEAH, FL 33018		

Tank Construction:
 Tank Id: Not reported
 Construction Desc: Not reported
 Category: Not reported
 Description: Not reported

Petro Monitoring:
 Monitoring Desc: Not reported
 Category: Not reported
 Description: Not reported

Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

Facility ID:	9501729	Tank ID:	2
Facility Phone:	(305) 829-0700		

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

COMMUNITY ASPHALT CORPORATION (Continued)

1006299229

Facility Type: Fuel User / Non-retail Tank Location: ABOVEGROUND Type Description: Fuel user/Non-retail DEP Contrctr Own: No Substance: Description: Misc. petrol-based product Gallons: 8000 Category: Petroleum Pollutant Regulation Began:1991-04-01 Tank Status: Removed Install Date: 01-JUL-1989 Owner Id: 4517 Owner Name: COMMUNITY ASPHALT CORP Owner Contact: RUDY ROBLES Owner Address: 14005 NW 186TH ST ATTN: RODOLFO ROBLES HIALEAH, FL 33018 Tank Construction: Tank Id: Not reported Construction Desc:Not reported Category: Not reported Description: Not reported Petro Monitoring: Monitoring Desc: Not reported Category: Not reported Description: Not reported Tank Piping: Piping Desc: Not reported Category: Not reported Description: Not reported Facility ID: 9501729 Facility Phone: (305) 829-0700 Facility Type: Fuel User / Non-retail Tank Location: ABOVEGROUND Type Description: Fuel user/Non-retail DEP Contrctr Own: No Substance: Description: Misc. petrol-based product Gallons: 22000 Category: Petroleum Pollutant Regulation Began:1991-04-01 Tank Status: Removed Install Date: 01-JUL-1989 Owner Id: 4517 Owner Name: COMMUNITY ASPHALT CORP Owner Contact: RUDY ROBLES Owner Address: 14005 NW 186TH ST ATTN: RODOLFO ROBLES HIALEAH, FL 33018 Tank Construction: Tank Id: Not reported Construction Desc:Not reported Category: Not reported Description: Not reported Petro Monitoring: Monitoring Desc: Not reported	Vessel Indicator: TANK Content Description: Misc Petrol-Based Product Facility Status: OPEN Status Date: 01-SEP-1997 Owner Phone: (305) 829-0700 Tank ID: 1 Vessel Indicator: TANK Content Description: Misc Petrol-Based Product Facility Status: OPEN Status Date: 09-JUN-1999 Owner Phone: (305) 829-0700
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MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

COMMUNITY ASPHALT CORPORATION (Continued)

1006299229

Category: Not reported
 Description: Not reported
 Tank Piping:
 Piping Desc: Not reported
 Category: Not reported
 Description: Not reported

39

**SAWGRASS ROCK QUARRY
 14005 NW 186 ST FACILITY A
 MIAMI, FL 33108**

**UST
 Miami-Dade Co. IW2-4
 Miami-Dade Co. ENF
 Miami-Dade Co. AP**

**U003703267
 N/A**

FL Industrial Waste:

Facility ID:	0000390	Permit Section:	IW
Facility Code:	22.00	Region:	DADE
Shell Name:	GEN SHELL	File Number:	4444.00
Permitted:	Yes		

Facility ID:	0004798	Permit Section:	IW5
Facility Code:	23.00	Region:	DADE
Shell Name:	SPEC	File Number:	4444.00
Permitted:	Yes		

FL Enforcement:

Region: DADE
 Facility Type: Wetlands
 Status Date: 04/24/96
 Folio Num: 3029030000060
 Enforcement Officer: KARAFB

Region: DADE
 Facility Type: Wetlands
 Status Date: 04/24/96
 Folio Num: 3029030000060
 Enforcement Officer: POWERF

Dade County Air Permit:

Facility ID:	0000949	Facility Number:	4444.00
Permit Section:	AP	Region:	DADE
Facility Code:	No Monitoring Wells		
Shell Name:	GEN		
Permitted:	Yes		

FL UST DADE COUNTY:

Facility ID: 0005571
 Permit Section: UT
 File Number: 4444.00
 Shell Name: Not reported
 Permitted: No
 Facility Code: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site
 Database(s)
 EDR ID Number
 EPA ID Number

40	SOUTH FLORIDA TEST SERVICE 17301 OKEECHOBEE RD MIAMI, FL 33018	Miami-Dade Co. IW2-4	S103447680 N/A
	FL Industrial Waste: Facility ID: 0003537 Facility Code: 22.00 Shell Name: SPEC Permitted: Yes Permit Section: IW5 Region: DADE File Number: 3274.00		
41	ARENCIBIA 17015 W OKEECHOBEE RD HIALEAH, FL 33015	Miami-Dade Co. ENF	S105437043 N/A
	FL Enforcement: Region: DADE Facility Type: Wetlands Status Date: 05/31/96 Folio Num: 3029100020110 Enforcement Officer: KURESD		
42	THE LOWELL DUNN COMPANY DADE (County), FL	MINES	M100019394 N/A
	U.S. MINES: Mine ID: 0800512 Entity Name: AIRPORT PIT State FIPS code: 12 Status Date: 10/01/2000 Operation Class: Non-coal mining Number of Pits: 000 Latitude: 25 55 53 SIC Codes: 14220 00000 00000 00000 00000 00000 Company: THE LOWELL DUNN COMPANY County FIPS code: 025 Status: permanently abandoned Number of Shops: 0 Number of Plants: 0 Longitude: 080 25 18		
43	FT LAUDERDALE BMBTAR#4 FORT LAUDERDALE, FL	FUDS	1007212684 N/A
	FUDS: Federal Facility ID: FL9799F7136 Facility Name: FT LAUDERDALE BMBTAR#4 City: FORT LAUDERDALE State: FL EPA Region: 4 County: DADE Congressional District: 25 US Army District: Jacksonville District (SAJ) Fiscal Year: 2003 First Name: EUNICE Last name: FORD Phone: 904-232-2235 Inst ID: 62179 CTC: Not reported RAB: Not reported		

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FORT LAUDERDAL	A100229421	FL DEPT OF TRANSPORTATION TOLL MP 25	I-75 ALLIGATOR ALLEY MM25	33327	AST
FT LAUDERDALE	S105212655	NEXTEL TOWER FL 1646	2001 US 27	33327	BROWARD CO. HM
FT LAUDERDALE	S104520240	GATESWELL,ATLAS-WASTE MAGIC,AGRACYCLE CO	0 GRIFFIN RD / U S HWY 27	33332	BROWARD CO. NOV
FT LAUDERDALE	S104520241	DELBERT D. BISHOP	0 GRIFFIN RD / U S HWY 27	33332	BROWARD CO. NOV
FT LAUDERDALE	S103297424	FDOT/TD I-75 EAST TOLL PLAZA	0 I-75 M M 25 / 27 AVE	33327	BROWARD CO. HM
FT LAUDERDALE	S103299004	COMMERCIAL CARRIER & JOHN BRUMMITT	0 U S HWY 27 / I-75	33327	BROWARD CO. NOV
FT LAUDERDALE	S103299013	SAM & JUANITA NIXON	3800 N U S HWY 27	33332	BROWARD CO. NOV
FT LAUDERDALE	U003729782	CITGO, SEMINOLE T STOP INC	4690 N U S HWY 27	33332	UST, BROWARD CO. HM
MEDLEY	S104291390	FLORIDA WORKS GROUP, INC.	11111 NW 115 WAY	33178	Miami-Dade Co. IW2-4
MEDLEY	S105871384	FLORIDA BLOCK	8720 NW 91 ST	33178	Miami-Dade Co. AP
MEDLEY	1005442349	PROBEX FLUIDS RECOVERY INC	10302 NW S RIVER DR BAY 10	33178	RCRA-SQG, FINDS
MEDLEY	A100167935	UNIVERSAL CONCRETE & READY MIX CORP	11790 NW SOUTH RIVER DR	33178	AST
MEDLEY	S105891731	AJO TRUCK REPAIRS/ DBA LAURIES GENERAL W	11350 NW SOUTH RIVER DR FAC. A	33178	Miami-Dade Co. IW2-4, Miami-Dade Co. AP
MEDLEY	U003702960	UNIVERSAL CONCRETE AND	11790 NW SOUTH RIVER DR UNIT 1	33178	UST, Miami-Dade Co. IW2-4, Miami-Dade Co. AP
MEDLEY	U003703360	ROUCO & SONS, INC.	12700 NW SOUTH RIVER DR	33178	UST, Miami-Dade Co. IW2-4
MEDLEY	U003974545	SUNSHINE PLAZA OF S FL INC	12200 NW SOUTH RIVER DR	33178	UST
MEDLEY	A100269828	SYSCO FOOD SERVICES OF SOUTH FLORIDA	12500 SYSCO WAY	33178	AST
MIAMI	U003918498	RANGER CONSTRUCTION SOUTH	18600 NW 122 AVE	33178	UST, Miami-Dade Co. IW2-4
MIAMI	U003701372	RANGER CONSTRUCTION SOUTH	18600 NW 122 AVE	33178	Miami-Dade Co. AP
MIAMI	S106344577	DELTA DADE TRACT 55 MRF	NW 154 ST / 97 AVE	33018	SWF/LF
MIAMI	S105966240	PURE BEAUTY FARMS TRUCK FUEL SPILL ACCID	NW 177TH AVE / HWY 27	33178	LUST
MIAMI	S105793221	GIOVANNI TURANO INTERNATIONAL DESIGN	11115 W OKEECHOBEE RD BAY # \$	33018	Miami-Dade Co. AP
MIAMI	U003918522	SOUTH FLORIDA TRUCK STOP	12200 NW SOUTH RIVER DR	33178	UST
MIAMI	U003704344	ROCK & FILL CORP	11700 NW SOUTH RIVER DR	33178	UST, Miami-Dade Co. HWS, Miami-Dade Co. SPILL
MIRAMAR	S105622497	SUNSET LAKES LOTS 9-10	SW 192ND PL / 40TH ST	33029	LUST
PEMBROKE PINES	A100202702	WEEKLEY ASPHALT PAVING INC #2	1451 SW 185TH AVE	33029	AST
PEMBROKE PINES	S105202257	ISLA TRUCKING SPILL	US HWY 27 1 MI SOUTH OF GRIFFIN RD	33332	LUST
PEMBROKE PINES	U003730055	TWIN OIL GAS STATION	0 SHERIDAN ST & US 27	33029	UST
PEMBROKE PINES	S105212466	PAVEX CORPORATION	0 SHERIDAN ST 400'E OF US27	33332	BROWARD CO. NOV
PEMBROKE PINES	U003961987	SUNOCO US 27	21250 SHERIDAN ST	33332	UST
PEMBROKE PINES	A100265915	WEEKLEY ASPHALT PAVING #2	20701 STIRLING RD	33332	AST
SUNRISE	S104521261	WALGREENS #1421	15860 SR 84	33326	BROWARD CO. HM
SUNRISE	1001213278	WALGREENS #1421	15860 W SR 84	33326	RCRA-SQG, FINDS
SUNRISE	S101228042	POOL CENTERS USA	15920 W SR 84	33326	BROWARD CO. HM
SUNRISE	S102632145	DRYCLEAN U S A, SUNRISE	15984 W SR 84	33326	BROWARD CO. HM
SUNRISE	S104520337	BROW CO PK, MARKHAM PARK	16001 W SR 84	33326	BROWARD CO. HM
SUNRISE	U002219929	MOBIL LUBE EXPRESS #02-BO9	15990 W SR 84	33326	BROWARD CO. HM
SUNRISE	1005435064	POOL CENTERS U.S.A. #6	15920 WESTON ROAD	33326	SSTS
WESTON	S105118165	SOUTH FLORIDA TRUCK	I-75 150 YDS W OF E	33327	LUST, Broward Co. EDIEAR
WESTON	U003729684	AMOCO, EAST MALL AMOCO	17990 SR 84	33326	UST

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
WESTON	S105212461	SOUTH FLORIDA TANK LINES CORP.	0 I-75 E TOLLBTH-150YD W OF	33326	BROWARD CO. NOV
WESTON	S104520648	MAGNUM LAND DEVELOPMENT, INC	0 SADDLE CLUB RD / S POST RD	33327	BROWARD CO. HM
WESTON	U003434675	MOBIL #02-RRM	2635 WESTON RD & PACIFIC LOOP	33326	LUST, UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List

Source: EPA

Telephone: N/A

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/28/05

Date Made Active at EDR: 05/16/05

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 05/04/05

Elapsed ASTM days: 12

Date of Last EDR Contact: 05/04/05

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1

Telephone 617-918-1143

EPA Region 3

Telephone 215-814-5418

EPA Region 4

Telephone 404-562-8033

EPA Region 6

Telephone: 214-655-6659

EPA Region 8

Telephone: 303-312-6774

Proposed NPL: Proposed National Priority List Sites

Source: EPA

Telephone: N/A

Date of Government Version: 04/27/05

Date Made Active at EDR: 05/16/05

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 05/04/05

Elapsed ASTM days: 12

Date of Last EDR Contact: 05/04/05

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA

Telephone: 703-413-0223

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/15/05

Date Made Active at EDR: 04/06/05

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/22/05

Elapsed ASTM days: 15

Date of Last EDR Contact: 03/22/05

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/22/05
Date Made Active at EDR: 04/06/05
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 04/01/05
Elapsed ASTM days: 5
Date of Last EDR Contact: 04/01/05

CORRACTS: Corrective Action Report

Source: EPA
Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/29/05
Date Made Active at EDR: 05/16/05
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 04/11/05
Elapsed ASTM days: 35
Date of Last EDR Contact: 03/07/05

RCRA: Resource Conservation and Recovery Act Information

Source: EPA
Telephone: 800-424-9346

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 05/20/05
Date Made Active at EDR: 06/09/05
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 05/24/05
Elapsed ASTM days: 16
Date of Last EDR Contact: 05/24/05

ERNS: Emergency Response Notification System

Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/04
Date Made Active at EDR: 03/24/05
Database Release Frequency: Annually

Date of Data Arrival at EDR: 01/27/05
Elapsed ASTM days: 56
Date of Last EDR Contact: 04/25/05

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System

Source: EPA/NTIS
Telephone: 800-424-9346

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/01/01
Database Release Frequency: Biennially

Date of Last EDR Contact: 04/15/05
Date of Next Scheduled EDR Contact: 06/13/05

CONSENT: Superfund (CERCLA) Consent Decrees

Source: Department of Justice, Consent Decree Library
Telephone: Varies

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/14/04
Database Release Frequency: Varies

Date of Last EDR Contact: 04/26/05
Date of Next Scheduled EDR Contact: 07/25/05

ROD: Records Of Decision

Source: EPA
Telephone: 703-416-0223

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/10/05
Database Release Frequency: Annually

Date of Last EDR Contact: 04/04/05
Date of Next Scheduled EDR Contact: 07/04/05

DELISTED NPL: National Priority List Deletions

Source: EPA
Telephone: N/A

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/28/05
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/04/05
Date of Next Scheduled EDR Contact: 08/01/05

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA
Telephone: N/A

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/11/05
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/04/05
Date of Next Scheduled EDR Contact: 07/04/05

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation
Telephone: 202-366-4555

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/04
Database Release Frequency: Annually

Date of Last EDR Contact: 04/19/05
Date of Next Scheduled EDR Contact: 07/18/05

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/14/05
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/04/05
Date of Next Scheduled EDR Contact: 07/04/05

MINES: Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/11/05
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/30/05
Date of Next Scheduled EDR Contact: 06/27/05

NPL LIENS: Federal Superfund Liens

Source: EPA
Telephone: 202-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 02/22/05
Date of Next Scheduled EDR Contact: 05/23/05

PADS: PCB Activity Database System

Source: EPA
Telephone: 202-564-3887

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/30/05
Database Release Frequency: Annually

Date of Last EDR Contact: 05/10/05
Date of Next Scheduled EDR Contact: 08/08/05

DOD: Department of Defense Sites

Source: USGS
Telephone: 703-692-8801

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 10/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/08/05
Date of Next Scheduled EDR Contact: 05/09/05

UMTRA: Uranium Mill Tailings Sites

Source: Department of Energy
Telephone: 505-845-0011

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized. In 1978, 24 inactive uranium mill tailings sites in Oregon, Idaho, Wyoming, Utah, Colorado, New Mexico, Texas, North Dakota, South Dakota, Pennsylvania, and on Navajo and Hopi tribal lands, were targeted for cleanup by the Department of Energy.

Date of Government Version: 12/29/04
Database Release Frequency: Varies

Date of Last EDR Contact: 03/22/05
Date of Next Scheduled EDR Contact: 06/20/05

ODI: Open Dump Inventory

Source: Environmental Protection Agency
Telephone: 800-424-9346

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/85
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/23/95
Date of Next Scheduled EDR Contact: N/A

FUDS: Formerly Used Defense Sites

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/03
Database Release Frequency: Varies

Date of Last EDR Contact: 04/04/05
Date of Next Scheduled EDR Contact: 07/04/05

INDIAN RESERV: Indian Reservations

Source: USGS
Telephone: 202-208-3710

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 10/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/08/05
Date of Next Scheduled EDR Contact: 05/09/05

US ENG CONTROLS: Engineering Controls Sites List

Source: Environmental Protection Agency
Telephone: 703-603-8867

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/10/05
Database Release Frequency: Varies

Date of Last EDR Contact: 04/04/05
Date of Next Scheduled EDR Contact: 07/04/05

RAATS: RCRA Administrative Action Tracking System

Source: EPA
Telephone: 202-564-4104

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 03/07/05
Date of Next Scheduled EDR Contact: 06/06/05

TRIS: Toxic Chemical Release Inventory System

Source: EPA
Telephone: 202-566-0250

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/02
Database Release Frequency: Annually

Date of Last EDR Contact: 03/22/05
Date of Next Scheduled EDR Contact: 06/20/05

TSCA: Toxic Substances Control Act

Source: EPA
Telephone: 202-260-5521

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/02
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 04/05/05
Date of Next Scheduled EDR Contact: 06/06/05

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA
Telephone: 202-566-1667

Date of Government Version: 04/13/05
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/21/05
Date of Next Scheduled EDR Contact: 06/20/05

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SSTS: Section 7 Tracking Systems

Source: EPA
Telephone: 202-564-4203

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/03
Database Release Frequency: Annually

Date of Last EDR Contact: 04/19/05
Date of Next Scheduled EDR Contact: 07/18/05

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/13/05
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/21/05
Date of Next Scheduled EDR Contact: 06/20/05

STATE OF FLORIDA ASTM STANDARD RECORDS

SHWS: Florida's State-Funded Action Sites

Source: Department of Environmental Protection
Telephone: 850-488-0190

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 03/10/05
Date Made Active at EDR: 04/12/05
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 03/22/05
Elapsed ASTM days: 21
Date of Last EDR Contact: 03/22/05

SWF/LF: Solid Waste Facility Database

Source: Department of Environmental Protection
Telephone: 850-922-7121

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/16/05
Date Made Active at EDR: 05/26/05
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/17/05
Elapsed ASTM days: 9
Date of Last EDR Contact: 05/17/05

LUST: PCT01 - Petroleum Contamination Detail Report

Source: Department of Environmental Protection
Telephone: 850-245-8839

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 05/04/05
Date Made Active at EDR: 06/16/05
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 05/31/05
Elapsed ASTM days: 16
Date of Last EDR Contact: 05/31/05

UST: STI02 - Facility/Owner/Tank Report

Source: Department of Environmental Protection
Telephone: 850-245-8839

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/04/05
Date Made Active at EDR: 06/23/05
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 05/31/05
Elapsed ASTM days: 23
Date of Last EDR Contact: 05/31/05

INDIAN UST: Underground Storage Tanks on Indian Land
Source: EPA Region 4
Telephone: 404-562-9424

Date of Government Version: 03/03/05
Date Made Active at EDR: 04/18/05
Database Release Frequency: Varies

Date of Data Arrival at EDR: 03/18/05
Elapsed ASTM days: 31
Date of Last EDR Contact: 02/15/05

VCP: Voluntary Cleanup Sites
Source: Department of Environmental Protection
Telephone: 850-245-8705

Date of Government Version: 03/29/05
Date Made Active at EDR: 04/18/05
Database Release Frequency: Varies

Date of Data Arrival at EDR: 03/29/05
Elapsed ASTM days: 20
Date of Last EDR Contact: 03/22/05

INDIAN LUST: Leaking Underground Storage Tanks on Indian Land
Source: EPA Region 4
Telephone: 404-562-8677
LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 03/01/05
Date Made Active at EDR: 04/18/05
Database Release Frequency: Varies

Date of Data Arrival at EDR: 03/18/05
Elapsed ASTM days: 31
Date of Last EDR Contact: 02/15/05

STATE OF FLORIDA ASTM SUPPLEMENTAL RECORDS

AST: STI02 - Facility/Owner/Tank Report
Source: Department of Environmental Protection
Telephone: 850-245-8839
Registered Aboveground Storage Tanks.

Date of Government Version: 05/04/05
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/31/05
Date of Next Scheduled EDR Contact: 08/29/05

FL SITES: Sites List
Source: Department of Environmental Protection
Telephone: 850-245-8705

Date of Government Version: 12/31/89
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 03/24/94
Date of Next Scheduled EDR Contact: N/A

FL Cattle Dip. Vats: Cattle Dipping Vats
Source: Department of Environmental Protection
Telephone: 850-488-3601

Date of Government Version: 05/01/94
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 02/07/05
Date of Next Scheduled EDR Contact: 05/09/05

SPILLS: Oil and Hazardous Materials Incidents
Source: Department of Environmental Protection
Telephone: 850-488-2974
Statewide oil and hazardous materials inland incidents.

Date of Government Version: 02/27/05
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/01/05
Date of Next Scheduled EDR Contact: 05/09/05

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DEDB: Ethylene Dibromide Database Results

Source: Department of Environmental Protection
Telephone: 850-245-8335

Ethylene dibromide (EDB), a soil fumigant, that has been detected in drinking water wells. The amount found exceeds the maximum contaminant level as stated in Chapter 62-550 or 520. It is a potential threat to public health when present in drinking water.

Date of Government Version: 04/26/05
Database Release Frequency: Varies

Date of Last EDR Contact: 04/18/05
Date of Next Scheduled EDR Contact: 07/18/05

ENG CONTROLS: Institutional Controls Registry

Source: Department of Environmental Protection
Telephone: 850-245-8927

The registry is a database of all contaminated sites in the state of Florida which are subject to engineering controls. Engineering Controls encompass a variety of engineered remedies to contain and/or reduce contamination, and/or physical barriers intended to limit access to property. ECs include fences, signs, guards, landfill caps, provision of potable water, slurry walls, sheet pile (vertical caps), pumping and treatment of groundwater, monitoring wells, and vapor extraction systems.

Date of Government Version: 05/03/05
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/27/05
Date of Next Scheduled EDR Contact: 08/01/05

PRIORITYCLEANERS: Priority Ranking List

Source: Department of Environmental Protection
Telephone: 850-245-8927

The Florida Legislature has established a state-funded program to cleanup properties that are contaminated as a result of the operations of a drycleaning facility.

Date of Government Version: 05/01/05
Database Release Frequency: Varies

Date of Last EDR Contact: 05/27/05
Date of Next Scheduled EDR Contact: 08/22/05

DRY CLEANERS: Drycleaning Facilities

Source: Department of Environmental Protection
Telephone: 850-245-8927

Date of Government Version: 05/04/05
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/23/05
Date of Next Scheduled EDR Contact: 08/22/05

WASTEWATER: Wastewater Facility Regulation Database

Source: Department of Environmental Protection
Telephone: 850-921-9495

Domestic and industrial wastewater facilities.

Date of Government Version: 02/18/05
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/08/05
Date of Next Scheduled EDR Contact: 06/06/05

LOCAL RECORDS

ALACHUA COUNTY:

Facility List

Source: Alachua County Environmental Protection Department
Telephone: 352-264-6800
List of all regulated facilities in Alachua County.

Date of Government Version: 01/20/05
Database Release Frequency: Annually

Date of Last EDR Contact: 04/04/05
Date of Next Scheduled EDR Contact: 06/20/05

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

BROWARD COUNTY:

Underground Storage Tanks

Source: Department of Natural Resources Protection
Telephone: 954-519-1292

Date of Government Version: 12/01/02
Database Release Frequency: Annually

Date of Last EDR Contact: 04/11/04
Date of Next Scheduled EDR Contact: 06/27/05

Notice Of Violations Sites

Source: Department of Natural Resources Protection
Telephone: 954-519-1292

NOV facilities have received a notice of violation letter under the Broward County Chapter 27 Code.

Date of Government Version: 12/01/02
Database Release Frequency: Annually

Date of Last EDR Contact: 04/11/05
Date of Next Scheduled EDR Contact: 06/27/05

Semi-Annual Inventory Report on Contaminated Locations

Source: Broward County Department of Natural Resources Protection
Telephone: 954-519-1260

Early Detection Incentive/Environmental Assessment Remediation. This report monitors the status and remediation progress of known contaminated locations within Broward County. Sites listed by the US EPA, the Florida Department of Environmental Protection, and sites licensed for contamination assessment and cleanup by the Division of Pollution Prevention and Remediation Programs of the Department.

Date of Government Version: 01/01/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 04/15/05
Date of Next Scheduled EDR Contact: 06/27/05

Hazardous Material Sites

Source: Department of Natural Resources Protection
Telephone: 954-519-1292

HM sites use or store greater than 25 gallons of hazardous materials per month.

Date of Government Version: 12/01/02
Database Release Frequency: Annually

Date of Last EDR Contact: 04/11/05
Date of Next Scheduled EDR Contact: 06/27/05

MIAMI-DADE COUNTY:

Underground Storage Tanks

Source: Department of Environmental Resource Management
Telephone: 305-372-6700

Date of Government Version: 02/09/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/28/05
Date of Next Scheduled EDR Contact: 06/27/05

Grease Trap Sites

Source: Dade County Dept. of Env. Resources Mgmt.
Telephone: 305-372-6508

Any non-residential facility that discharges waste to a sanitary sewer.

Date of Government Version: 12/17/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/28/05
Date of Next Scheduled EDR Contact: 06/27/05

Enforcement Case Tracking System Sites

Source: Department of Environmental Resources Management
Telephone: 305-372-6755

Date of Government Version: 12/17/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/28/05
Date of Next Scheduled EDR Contact: 06/27/05

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Fuel Spills Cases

Source: Department of Environmental Resources Management
Telephone: 305-372-6755

Date of Government Version: 05/24/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/28/05
Date of Next Scheduled EDR Contact: 06/27/05

Hazardous Waste Sites

Source: Dade County Department of Environmental Resources Management
Telephone: 305-372-6755
Sites with the potential to generate waste

Date of Government Version: 11/05/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/28/05
Date of Next Scheduled EDR Contact: 06/27/05

Air Permit Sites

Source: Department of Environmental Resources Management
Telephone: 305-372-6755

Date of Government Version: 02/09/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/28/05
Date of Next Scheduled EDR Contact: 06/27/05

Industrial Waste Permit Sites

Source: Department of Environmental Resources Management
Telephone: 305-372-6700

Facilities that either generate more than 25,000 of wastewater per day to sanitary sewers or are pre-defined by EPA.

Date of Government Version: 12/17/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/28/05
Date of Next Scheduled EDR Contact: 06/27/05

Industrial Waste Type 2-4 Sites

Source: Department of Environmental Resources Management
Telephone: 305-372-6700

IW2s are facilities having reclaim or recycling systems with no discharges, aboveground holding tanks or spill prevention and countermeasure plans. IW4s are facilities that discharge an effluent to the ground.

Date of Government Version: 02/09/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/28/05
Date of Next Scheduled EDR Contact: 06/27/05

Industrial Waste Type 5 Sites

Source: Department of Environmental Resources Management
Telephone: 305-372-6700

Generally these facilities fall under the category of "conditionally exempt small quantity generator" or "small quantity generator".

Date of Government Version: 02/09/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/28/05
Date of Next Scheduled EDR Contact: 06/27/05

Industrial Waste Type 6

Source: Department of Environmental Resources Management
Telephone: 305-372-6700

Permits issued to those non-residential land uses located within the major drinking water wellfield protection areas that are not served by sanitary sewers. These facilities do not handle hazardous materials but are regulated because of the env. sensitivity of the areas where they are located.

Date of Government Version: 02/09/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/28/05
Date of Next Scheduled EDR Contact: 06/27/05

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

BROWNFIELDS DATABASES

Inst Control: Institutional Controls Registry

Source: Department of Environmental Protection
Telephone: 850-245-8927

The registry is a database of all contaminated sites in the state of Florida which are subject to institutional and engineering controls.

Date of Government Version: 05/03/05
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/27/05
Date of Next Scheduled EDR Contact: 08/01/05

Brownfields: Brownfield Areas

Source: Department of Environmental Protection
Telephone: 850-413-0062

Date of Government Version: 04/01/05
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/03/05
Date of Next Scheduled EDR Contact: 08/01/05

VCP: Voluntary Cleanup Sites

Source: Department of Environmental Protection
Telephone: 850-245-8705

Date of Government Version: 03/29/05
Database Release Frequency: Varies

Date of Last EDR Contact: 03/22/05
Date of Next Scheduled EDR Contact: 06/20/05

US BROWNFIELDS: A Listing of Brownfields Sites

Source: Environmental Protection Agency
Telephone: 202-566-2777

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 01/10/05
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/14/05
Date of Next Scheduled EDR Contact: 06/13/05

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US INST CONTROL: Sites with Institutional Controls

Source: Environmental Protection Agency

Telephone: 703-603-8867

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/10/05

Database Release Frequency: Varies

Date of Last EDR Contact: 04/04/05

Date of Next Scheduled EDR Contact: 07/04/05

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Department of Children & Families

Source: Provider Information

Telephone: 850-488-4900

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

Florida State Wetlands

Source: Florida Department of Environmental Protection

This data was obtained by EDR in 2003 from the Florida Department of Environmental Protection.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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

Disclaimer

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No warranty of merchantability or of fitness for a particular purpose, expressed or implied, shall apply and EDR specifically disclaims the making of such warranties. In no event shall EDR be liable to anyone for special, incidental, consequential or exemplary damages.

Appendix C

Records of Correspondence



930 WOODCOCK ROAD, SUITE 101
ORLANDO, FL. 32803
PHONE (407) 894 - 9900 / FAX (407) 894 -1089

COMMUNICATION LOG

Date: 7-19-05

Time: 10:40

Contact: Damaris Lugo

Company: Broward County Pollution Prevention Division

Phone #: (954) 519-1260

Fax #:

Re: Broward County Interim Landfill – US Highway 27/Sheridan Street

Project #:05-3055CSEO

Notes: BEM contacted Ms. Damaris Lugo with the Broward County Pollution Prevention Division for information pertaining to the Broward County Interim Landfill located near the intersection of U.S. Highway 27 and Sheridan Street in Broward County, Florida.

Ms. Lugo indicated that the facility is a permitted Class 1 landfill although they accept mostly construction and demolition debris from the County. She indicated that the landfill is required to submit groundwater monitoring reports on an annual basis as part of their permit requirements. She is unaware of any groundwater impacts at the landfill, however she suggested that a review of the available reports would be prudent to ensure her belief that no groundwater impacts exist at the landfill.

Christopher Pisarri

CRB Project Summary for C-9/C-11 SFWMD Projects

From: Christopher J. Pisarri
Sent: Wednesday, July 13, 2005 7:13 AM
To: 'vrossinsky@crbgeo.net'
Subject: CRB Project Summary for C-9/C-11 SFWMD Projects

Importance: High
Victor:

Can you please provide a summary of the work that CRB has completed within the C-9/C-11 Project Areas? I have pretty much everything that you have up to 2001. The information that I need is the updated corrective actions/additional assessments that have been conducted on behalf of the property owners since the completion of BEM's assessments in 2002.

I have a meeting with Bob Taylor tomorrow, so any information that you can provide would be appreciated. Pretty much all that I need is the report name, property tract number, date of the report, a summary of what was completed (soil delineation, soil excavation, tank closure), is additional assessment required or does the site meet NFA, date report provided to the District or USFWS. A summary table would be sufficient.

Thank you;
Chris Pisarri
BEM Systems, Inc.
(407) 894-9900 ext 154

CRB Assessments for Weekley Smith and White Properties

From: Christopher J. Pisarri
Sent: Wednesday, August 17, 2005 8:32 AM
To: 'vrossinsky@crbgeo.net'
Subject: CRB Assessments for Weekley, Smith and White Properties
Victor;

The project summaries that were sent to me did not include information pertaining to the recent assessments conducted by CRB for the above-referenced properties. Can you provide an update? I know that CRB was scheduled to conduct assessments at the Weekley and White properties this year. I also thought that CRB completed a recent assessment (after 2003) for Smith property.

Please let me know if you have any additional information for these sites.

Thank you;
Chris Pisarri
BEM Systems, Inc.
(407) 894-9900 ext 154

FW Former Utilized Defense Site

From: Mahoney, Laura L SAJ [Laura.L.Mahoney@saj02.usace.army.mil]
Sent: Tuesday, July 19, 2005 11:04 AM
To: McAdams, James J SAJ; Cintron, Barbara B SAJ
Cc: CPisarri@bemsys.com
Subject: FW: Former Utilized Defense Site

Jim/Barbara, do either of you know someone who could help this gentleman?
laura

-----Original Message-----

From: Christopher J. Pisarri [mailto:CPisarri@bemsys.com]
Sent: Tuesday, July 19, 2005 10:33 AM
To: Mahoney, Laura L SAJ
Subject: Former Utilized Defense Site

Laura:

My name is Chris Pisarri and I work for BEM Systems, Inc in Orlando, Florida. We are environmental consultants that are working on behalf of the South Florida Water Management District on an extensive environmental project located in Dade and Broward Counties, Florida.

During our assessment, we became aware that a former utilized defense site (FUDES) is located within our project area. The FUDES site was listed as Ft. Lauderdale BMBTAR #7 and the ID number for the site as identified on the USACE website is listed as I04FL0097. I also have a Federal Facility ID number for the site listed as FL9799F7139.

Previously, you could go on the USACE web page and download the project fact sheet for a particular FUD site. I can no longer link to that site to get the required information. I have already left a message with Robert Bridgers in the Jax corps for this info.

Thank you for your assistance;

Chris Pisarri
BEM Systems, Inc.
Orlando, Florida 32803
(407) 894-9900 ext 154

RE Former Utilized Defense Site(A)

From: Cintron, Barbara B SAJ [Barbara.B.Cintron@saj02.usace.army.mil]
Sent: Tuesday, July 19, 2005 11:18 AM
To: Mahoney, Laura L SAJ; McAdams, James J SAJ
Cc: CPisarri@bemsys.com
Subject: RE: Former Utilized Defense Site(A)

Yes. Jim McAdams is the right person, after Robert Bridgers. Jim used to be chief of EQ section of environmental branch. EQ engineers did testing of all FUDS sites in Florida and PR in the nineties.

-----Original Message-----

From: Mahoney, Laura L SAJ
Sent: Tuesday, July 19, 2005 11:04 AM
To: McAdams, James J SAJ; Cintron, Barbara B SAJ
Cc: 'CPisarri@bemsys.com'
Subject: FW: Former Utilized Defense Site

Jim/Barbara, do either of you know someone who could help this gentleman?
laura

-----Original Message-----

From: Christopher J. Pisarri [mailto:CPisarri@bemsys.com]
Sent: Tuesday, July 19, 2005 10:33 AM
To: Mahoney, Laura L SAJ
Subject: Former Utilized Defense Site

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Thank you for your assistance;

Chris Pisarri
BEM Systems, Inc.
Orlando, Florida 32803
(407) 894-9900 ext 154

RE Former Utilized Defense Site

Re: Former Utilized Defense Site
From: McAdams, James J SAJ [James.J.McAdams@saj02.usace.army.mil]
Sent: Wednesday, August 03, 2005 11:24 AM
To: Christopher J. Pisarri; Acosta, Ivan SAJ; Bridgers, Robert C SAJ; Freeman, Thomas R III MVS
Subject: RE: Former Utilized Defense Site

I TOO AM LOCKED OUT AND CANNOT HELP ON THIS ISSUE. I AM FORWARDING THIS TO OTHERS WHOM CAN HELP.

From: Christopher J. Pisarri [mailto:CPisarri@bemsys.com]
Sent: Tuesday, August 02, 2005 8:01 AM
To: McAdams, James J SAJ; Mahoney, Laura L SAJ; Cintron, Barbara B SAJ; Acosta, Ivan SAJ
Subject: RE: Former Utilized Defense Site

To All:

Please note that I have not received any correspondence regarding this matter. Please respond via email since I am out of the office today.

Thank you;

Chris Pisarri

BEM Systems, Inc.

Orlando, Florida 32803

-----Original Message-----

From: McAdams, James J SAJ [mailto:James.J.McAdams@saj02.usace.army.mil]
Sent: Wednesday, July 20, 2005 8:27 AM
To: Mahoney, Laura L SAJ; Cintron, Barbara B SAJ; Acosta, Ivan SAJ
Cc: CPisarri@bemsys.com
Subject: Re: Former Utilized Defense Site

I am not in the office. I am forwarding this to ivan acosta whom may be able to get the links

Sent via BlackBerry Wireless

-----Original Message-----

From: Mahoney, Laura L SAJ <Laura.L.Mahoney@saj02.usace.army.mil>
To: McAdams, James J SAJ <James.J.McAdams@saj02.usace.army.mil>; Cintron, Barbara B SAJ <Barbara.B.Cintron@saj02.usace.army.mil>
CC: 'CPisarri@bemsys.com' <CPisarri@bemsys.com>
Sent: Tue Jul 19 11:04:07 2005
Subject: FW: Former Utilized Defense Site

RE Former Utilized Defense Site

Jim/Barbara, do either of you know someone who could help this gentleman?
laura

-----Original Message-----

From: Christopher J. Pisarri [mailto:CPisarri@bemsys.com]
Sent: Tuesday, July 19, 2005 10:33 AM
To: Mahoney, Laura L SAJ
Subject: Former Utilized Defense Site

Laura:

My name is Chris Pisarri and I work for BEM Systems, Inc in Orlando, Florida. We are environmental consultants that are working on behalf of the South Florida Water Management District on an extensive environmental project located in Dade and Broward Counties, Florida.

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Thank you for your assistance;

Chris Pisarri
BEM Systems, Inc.
Orlando, Florida 32803
(407) 894-9900 ext 154

Utilized Defense Contacts for Jax Corps

From: Christopher J. Pisarri
Sent: Wednesday, August 31, 2005 12:52 PM
To: 'rtaylor@sfwmd.gov'
Subject: Utilized Defense Contacts for Jax Corps
Bob T:

The contacts with the Jax Corps for the Utilized Defense Sites are Mr. Robert Bridgers and Mr. Eunice Ford. The phone number for Jax Corps is 904-232-2568. The number for Mr. Eunice Ford is (904) 232-2415. You will have to provide them with the facility number and name of the site as identified by the Corps.

These guys never really call back so you might be better leaving a message on their voice mail and then calling the main office number and having them paged so they will call you back.

Chris

RE Tract 312-023

From: Christopher J. Pisarri
Sent: Friday, August 19, 2005 7:19 AM
To: 'Vince Yarina'
Subject: RE: Tract 312-023

Thank you. CP

-----Original Message-----

From: Vince Yarina [mailto:vyarina@Langan.com]
Sent: Thursday, August 18, 2005 5:17 PM
To: Christopher J. Pisarri
Subject: Tract 312-023

Chris, Here is an excerpt from our report dated 10/30/03 regarding the pesticide on tract 312-023. I hope this helps.

Vince

Vincent D. Yarina, PG
PROJECT MANAGER
Cell: 305.321.2847

LANGAN I ENGINEERING & ENVIRONMENTAL SERVICES
T: 305.362.1166 F: 305.362.5212
7900 Miami Lakes Drive
Suite 102
Miami Lakes, FL 33016-5897
www.langan.com

The chlordane and toxaphene detected on the Property appear to have resulted from previous agricultural activity. There is evidence that the portion of the Property where sample SS-023-2 was collected had been previously used for hog rearing operations. Insecticides used in hog production operations have been known to contain toxaphene.

Based on the proximity of sample location SS-023-2 to the presumed hog production operations, we believe this area to be a probable "worst-case" area. Langan delineated the area of the identified toxaphene impact during the secondary sampling activities. Neither toxaphene nor chlordane was detected in any of the other original three samples or in the area surrounding SS-023-2. Based on this information, Langan believes the area of impact to be isolated at this location and estimates the area to be approximately 10 ft wide x 10 ft long x 1 ft deep, which has an estimated volume of soil removal is 5 tons. Additionally, based on the apparent high organic content visually observed in the soil samples, Langan believes the likelihood for the toxaphene to release from the soil into the environment is low.

However, even though the impacted area appears to be very isolated and the apparent high organic content would limit ecological exposures, Langan recommends that, prior to this area being inundated, the 5 tons of pesticide-contaminated soil be removed and properly disposed. Langan expects that this soil can be incinerated locally for a cost of \$3,000. The cost associated with the soil removal should be assumed by the

RE Tract 312-023

District based on the intended use of the Property. Based on the limited corrective actions a bifurcation table was not necessary.

Langan also recommends proper decommissioning and abandonment of the supply well observed on the Property. The cost to abandon the well is expected to be on the order of \$500.

RE Krome Avenue Trailer Park

From: Taylor, Robert [rtaylor@sfwmd.gov]
Sent: Tuesday, September 06, 2005 1:49 PM
To: Christopher J. Pisarri
Cc: Needle, Jeffrey
Subject: RE: Krome Avenue Trailer Park

Chris

The tracts that included the trailer park should be consider and out parcel.

Robert Taylor Lead Environmental Engineer
Land Acquisition Support Division
Office (561)-682-2264
Cell (561)-236-4227

-----Original Message-----

From: Christopher J. Pisarri [mailto:CPisarri@bemsys.com]
Sent: Tuesday, September 06, 2005 1:42 PM
To: Taylor, Robert
Subject: Krome Avenue Trailer Park

Bob T:

Is it you understanding that the trailer park located in tracts 9312-001 and 9312-011 (Nell Jones) along Krome Avenue are to be considered "out-parcels" for my report? I know that you informed me that the FP&L substation was considered an "out-parcel" however I don't know if you received confirmation about the two tracts that comprise the trailer park.

I just want my tables and figures to be accurate.

Thanks

Chris

Appendix D

Archives Search Report



US Army Corps
of Engineers
Rock Island District



Defense Environmental Restoration Program
for
Formerly Used Defense Sites

ORDNANCE AND EXPLOSIVES

Archives Search Report

FINDINGS

for the

FORMER

FORT LAUDERDALE BOMB TARGET SITE No. 7

Fort Lauderdale, Florida
PROJECT NUMBER I04FL009701

March 1996



DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
for
FORMER USED DEFENSE SITES

FINDINGS

ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR THE
FORMER
FT LAUDERDALE BOMB TARGET SITE No. 7
FT LAUDERDALE, FLORIDA
PROJECT NUMBER I04FLO09701

March 1996

Prepared For

U.S. Army Corps of Engineers
Army Engineering and Support Center
ATTN: CEHNC-OE
P.O. Box 1600
Huntsville, Alabama, 35807-4301

Prepared By

U.S. Army Corps of Engineers
Rock Island District
ATTN: CENCR-ED-DO
P.O. Box 2004
Rock Island, Illinois 61204-2004

and

U.S. Army Defense Ammunition
Center and School
ATTN: SIOAC-ESL
Savanna, Illinois 61074-9639

ORDNANCE AND EXPLOSIVES
 ARCHIVES SEARCH REPORT
 FOR
 THE FORMER
 FT LAUDERDALE BOMB TARGET SITE No. 7
 FT LAUDERDALE, FLORIDA
 PROJECT NUMBER I04FL009701

ACKNOWLEDGMENTS

The following persons provided support, as indicated.

Function	Name	Title	Organization	Telephone
On-Site Assessment	*James L. Aschnewitz	UXO Safety Specialist (EOD)	CENCR-ED-DO	(309)794-6035
	George Williams	QA Specialist Ammunition (QASAS)	CENCR-ED-DO	(309)794-6027
	Chris Churney	Chemical Engineer	CENCR-ED-DO	(309)794-6011
Engineering Support	Daniel J. Holmes	Professional Engineer	CENCR-ED-DO	(309)794-6080
Technical Library Search	Tom Meekma	QA Specialist Ammunition (QASAS)	SIOAC-ESL	(815)273-8739
Geographic District Support	Russ Jones	Project Manager	CESAJ-PD-EE	(904)232-2168
Industrial Hygiene	Robert Platt	Industrial Hygienist	MCXP-RIA	(309)782-0806
CADD Support	Tom Geerlings	Technician	CENCR-ED-DO	(309)794-6072

* Team Leader

ORDNANCE AND EXPLOSIVES PROJECTS
ARCHIVES SEARCH REPORT
FOR THE
FORMER
FT LAUDERDALE BOMB TARGET SITE No. 7
FT LAUDERDALE, FLORIDA
PROJECT NUMBER I04FL009701

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ORDNANCE AND EXPLOSIVES PROJECTS
ARCHIVES SEARCH REPORT
FOR
THE FORMER
FORT LAUDERDALE BOMB TARGET SITE No. 7
FORT LAUDERDALE, FLORIDA
PROJECT NUMBER I04FL009701

1. INTRODUCTION

a. **Subject and Purpose**

(1) This report presents the findings of a historical records search and site inspection for presence of ordnance and explosives (OE) located at the former Fort Lauderdale Bomb Target Site No. 7, near Fort Lauderdale, Florida (see plate 1 for general location map). The investigation was performed under the authority of the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP FUDS).

(2) The investigation focused on 640 acres that were identified as the former Fort Lauderdale Bomb Target Site No. 7 (see document L-1 and plate 1). Fort Lauderdale Bomb Target No. 7 was under United States Military control from approximately August 1944 until January 1947. The site was utilized by the Naval Air Advanced Training Command (NAATC).

(3) The purpose of this investigation was to characterize the site for potential OE contamination, to include conventional ammunition and chemical warfare material (CWM). The investigation was conducted by experienced ordnance experts through thorough evaluation of historical records, interviews, and on-site visual inspection results.

b. **Scope**

(1) This report presents the site history, site description, real estate ownership information, and confirmed ordnance presence (prior to and after site closure), based on available records, interviews, site inspections, and analyses. The analyses provide a complete evaluation of all information to assess current day potential ordnance contamination, where actual ordnance presence has not been confirmed.

(2) For the purpose of this report, OE contamination consists of live ammunition, ammunition components, CWM or explosives which have been lost, abandoned, discarded, buried, fired, or thrown from demolition pits or burning pads. These items were either manufactured, purchased, stored, used, and/or disposed of by the War Department/Department of Defense. Such ammunition/components are no longer under accountable record control of any DOD organization or activity.

(3) **Expended** small arms ammunition (caliber .50 or smaller) is **not** considered OE contamination. OE further includes "explosive soil" which refers to any mixture in soil, sands, clays, etc., such that the mixture itself is explosive. Generally, 10 percent or more by weight of secondary explosives in a soil mixture is considered explosive soil.

2. PREVIOUS INVESTIGATIONS

a. 1993 Preliminary Assessment

(1) A Preliminary Assessment of the former Fort Lauderdale Bomb Target No. 7 was conducted under the Defense Environmental Restoration Program, for Formerly Used Defense Sites (DERP FUDS) by the U.S. Army Corps of Engineers, Jacksonville District (site number I04FL009700). The Findings and Determination of Eligibility (FDE), dated 5 December 1993, concluded that this site was found to have been formerly used by the Department of Defense (DOD), and was therefore eligible for the Defense Environmental Restoration Program (see document E-1).

(2) The INPR recommends an OE investigation at the former Fort Lauderdale Bomb Target No. 7, which is the subject of this report. Table 2-1 represents the overall assessment of the site.

TABLE 2-1 DERP-FUDS PRELIMINARY ASSESSMENT PROJECTS				
Project Number	DERP Category	Present Phase	Comments	Location
I04FL009701	OE	SI	Ordnance or Explosive Contamination	See Plate 2
	HTRW		None Recommended	
	CON/HTRW		None Recommended	
	BD/DR		None Recommended	

b. **Additional Investigations**

There were no other previous investigations during this site assessment team's investigation of the subject location.

3. SITE DESCRIPTION

a. **Existing Land Usage**

(1) Currently the entire site is being utilized for grazing of cattle. U.S. Highway 27 predates the development of the bomb target and would have been the most likely means of access to the target. The easiest way to get to the site is to travel east off of U.S. Highway 27 onto Highway 820 (Pines Boulevard and then turn south on SW 196 Avenue. Travel south on this road until it dead-ends at Miramar Rock Company. Permission to gain access to the site may be gained at this location.

(2) Miramar Rock Company owns the entire site as well as much land adjoining it. This particular site is leased to Mr. Mike Bragman for the purpose of cattle grazing.

TABLE 3-1 CURRENT LAND USAGE					
AREA	FORMER USAGE	PRESENT OWNER	PRESENT USAGE	SIZE/ ACRES*	COMMENTS
A	Target Area	Miramar Rock Co Ray Knowles 954-431-2755	Cattle Grazing	42	See plate 2 & 3
B	Target Buffer Area	Miramar Rock Co	Cattle Grazing	119	See plate 2 & 3
C	Remaining Land	Miramar Rock Co	Cattle Grazing	479	See plate 2 & 3
Approximate Acres*				Total: 640	

b. **Climatic Data**

(1) The climate in the Fort Lauderdale and surrounding area which includes the former Fort Lauderdale Bomb Target No. 7 is essentially subtropical marine. This features long and warm summers, with abundant rainfall, followed by a mild, dry winter (reference B-2).

(2) Hurricanes occasionally affect the area. The months of greatest frequency are September and October. Destructive tornadoes are very infrequent. Funnel clouds are occasionally sighted and a few touch the ground briefly

but significant damage is seldom reported. June, July and August have the highest frequency of dangerous lightning events (reference B-2).

(3) Relative humidity averages around 80% year around. Annual Precipitation is normally 56 inches. The number of partly cloudy to clear days is approximately 250 a year.

(4) The hottest months are July and August with an average monthly temperature of 89 degrees Fahrenheit. The average high winter temperatures are 75 degrees and the lows fall to approximately 60 degrees Fahrenheit (see reference B-2).

c. Topography

The topographic features of the former Fort Lauderdale Bomb Range No. 7 consists of nearly level, poorly drained land. The few high spots rise only 10 to 30 feet above sea level. Some of these soils are sandy throughout, and others are made up entirely of organic materials. Soils near the target bull's-eye are primarily organic muck which is 12 inches to 20 inches in depth. All of these soils are underlain by limestone. Numerous manmade canals lace the area and provide drainage. Material dredged from the canals many times are used as fill in other low laying areas.

d. Geology and Soils

The U.S. Department of Agriculture Soil Conservation Service reports the soils in the subject area are a combination of soils on broad flats. The soil is of Dania Association. Attributes of this soil are very poor drainage, nearly level and organic muck. The natural vegetation of this area is sawgrass. This soil is less than 40 inches deep to hard limestone. (reference B-1).

e. Hydrology

Much of the acreage is in natural vegetation. The water table stays a near constant 12 to 18 inches below the surface nearly year around. Drainage and water control have been established over most of the surrounding area by means of canals (reference B-1).

f. Natural Resources

(1) Table 3-2 lists the various species of plants and wildlife designated as endangered or threatened by the federal government and the state of Florida in Broward County (references B-20 through B-22). It is doubtful that many of the plants would still exist as the entire area has

been disked and planted with Bahia grass numerous times for the grazing of cattle.

(2) If actions should proceed further regarding the former Fort Lauderdale Bomb Range No. 7, participants should contact the Florida Game and Fresh Water Fish Commission.

g. Historical/Cultural Resources

Included in Table 3-2 are the historical and cultural resources which may be present on or adjacent to subject area.

TABLE 3-2 Natural Historical and Cultural Resources		
Resource	Type	Comments
Wildlife	Mammals	
	Florida Manatee	Endangered
	Everglades Mink	Endangered
	Reptiles	
	American Alligator	Endangered
	Miami Black Headed Snake	Endangered
	Eastern Indigo Snake	Endangered
	Birds	
	Tricolored Heron	Special State Concern
	Snowy Egret	Special State Concern
	Florida Scrub Jay	Threatened
	White Ibis	Special species concern
	Red-Cockaded Woodpecker	Endangered
	Ivory Billed Woodpecker	Endangered
Little Kestrel	Endangered	
Vegetation	Flora	
	Slender Spleenwort	Endangered

4. HISTORICAL ORDNANCE PRESENCE

a. **Chronological Site Summary**

(1) The U.S. Navy acquired the 640 acre site for use by the Naval Air Advanced Training Command for training operations associated with the Miami and Fort Lauderdale Naval Air Stations (see documents E-1, and G-1). Fort Lauderdale Bomb Target Site No. 7 is located in Township 51 South, Range 39 East and Section 26. A permit was issued by the Trustees of the Internal Improvement Fund of the State of Florida for the bombing target on June 8, 1944. This permit further defined the location as Tract 92, 93, 100 and 101 within Section 26 (see documents E-5, E-6, E-7, L-1 and L-2). These tracts form a rectangle 1/8 by 1/4 mile containing 20 acres.

(2) There is a lapse in historical data on the bombing target. The next documents, dated 28 January 1947, to be uncovered state that the U.S. Navy did not have the Fort Lauderdale Bomb Target Site No. 7 on the active list for target areas. The Navy thus declared the target excess and requested cancellation of the permit (see document E-2).

(3) There is no documentation available that discusses actual use of the range. This leads to speculation that the bombing target may never have been utilized due to the downscaling of pilot training at that time.

b. **Review of Ordnance Related Records**

(1) Research efforts began with a review of all reports, articles, historical documents, and reference materials gathered during the archival records search. During this review an effort was made to focus on areas of potential OE contamination as described in the OE project summary sheet, as well as any additional areas which may have been identified during research concerning this former facility.

(2) In the initial request for acquisition of land for additional bomb targets it is explicitly stated that the targets were to be practice bombing targets (see document E-5). Actual documentation describing a bomb target has not been found, however, the implication is that the range would be for dive bombing. Only 20 acres were requested for the site. This fits in with the concept of dive bombing practice using MK 23/43 type 3 1/2 pound practice bombs on an extremely small range. The Fort Lauderdale Practice Bombing Target Site No. 7 was in the everglades and considered waste. There is no indication that these targets were for high explosive type bombs.

(3) Along with these targets the Navy used water ranges in the Atlantic Ocean maintaining at any one time more than fifty target boats. These boats were used for torpedo, dive bombing and depth bombing. A history report from the Fort Lauderdale Naval Air Station indicates that the majority of the live bombing was on water targets (see document E-4).

(4) Inventory records from the Miami Naval Air Station and the Fort Lauderdale Naval Air Station indicate a variety of munitions could have been used on this bombing target. MK-4, MK-23 and AN-MK 43, miniature practice bombs with AN-MK 4/5 spotting charges were utilized extensively for training. These three are basically the same weighing from 3.5 pounds to 4.5 pounds. The only difference is the AN-MK-43 was the heavier because it was manufactured out of a lead alloy material (see document E-3 and F-1 through F-3).

(5) There is no documentation available which indicated munitions of any type were used on this area. There is documentation showing that a small four-foot frame panel set in the pattern of a bull's eye target was constructed. This was circled by 100', 200', and 400' circles (see document E-2).

c. Interviews With Site-Related Personnel

(1) Personal interviews were conducted with officials, local citizens and land managers to help in the investigation for the presence of contamination (OE) in this area, and to gain further knowledge into the former Fort Lauderdale Bombing Target No. 7.

(2) Mr. E. J. Price, Real Estate Division, Jacksonville District, U.S. Army Corps of Engineers was one the first contacts made. Mr. Price handles all the FDE's for the FUDS Sites in the Jacksonville District. Mr. Price visited the Fort Lauderdale Bomb Targets approximately two years ago. He stated that he saw no evidence of ordnance on any of the targets. Mr. Price said that his office did not have any copies of leases for the property. The target ranges were discovered on an old map which was found in Navy historical reports and that the location of the ranges were approximated using sketchy details.

(3) Mr. Frank Cornetta, Supervisor Detective for the Broward County Sheriff's Department was an extremely knowledgeable and helpful individual. Mr. Cornetta has been with the Ft. Lauderdale Bomb and Arson Squad for fifteen years and in charge of it for the last three. When asked about this particular section of land he stated he had no reports of ordnance being discovered there. Mr. Cornetta

went on to say in the last ten years his department had probably picked up over 500 small practice bombs and some larger ones in other areas. Mr. Cornetta did not know personally if any of these practice bombs were live because their standard procedure was to dispose of the bombs by detonation.

(4) Mr. Ray Knowles has owned this land for the last 27 years. He stated that he never had seen or heard of any practice bombs or any other type of ordnance being found on this property. He has leased this land for cattle grazing for over 20 years and the lessor of the land has never told him of any ordnance discoveries on the land. Mr. Knowles added that this land was being entered into Mitigation Banking, a type of land bank which would maintain this land as wetlands. This means a permanent ban on any type of development. Another good piece of information provided by Mr. Knowles was he had the topsoil removed from nearly dead center of the Navy's proposed bulls-eye on the target for the purpose of sampling for his quarrying operations and had found no OE. Mr. Knowles provided 1996 aerial maps of where he had dug which reinforced his statements (see document L-2).

(5) Mr. Mike Bragman has leased this land for 20 years. Mr. Bragman said he has disked the land and planted it in Bahia grass for his cattle grazing operations. Mr. Bragman said he has ridden horses over the entire area and never did he see any type of ordnance or target circles.

5. SITE ELIGIBILITY

a. **Confirmed Formerly Used Defense Sites**

(1) Former land usage of Fort Lauderdale Bomb Target Site No. 7 by the Department of Defense has been previously confirmed for this entire site. Twenty acres of the approximate six hundred forty acres of land were documented as a practice bombing target range (see document E-5). The remaining 620 acres addressed in the FDE, while not clearly documented, is consistent with a typical range, and therefore, appropriate for consideration based on usage

(2) All information obtained during the archives search, site visit, and personal interviews has verified that the former Fort Lauderdale Bomb Range, No 7 is to be considered a confirmed site under the FUDS program.

b. **Potential Formerly Used Defense Sites**

No potential Formerly Used Defense Sites were discovered during this Archive Search Report.

6. VISUAL SITE INSPECTION

a. **General Procedures and Safety**

(1) During the period of 15-19 January 1996, members of the Site Inspection (SI) team traveled to the former Fort Lauderdale Bomb Target Site No. 7, near Fort Lauderdale, Florida. The primary task of the site inspection team was to assess subject facility for OE presence and potential. The site inspection was limited to non-intrusive methods, i.e., subsurface sampling was neither authorized nor performed at this location.

(2) Real Estate rights-of-entry were not necessary due to the cooperation of Broward County officials, land owner, Miramar Rock Company and the current lessor, Mr. Mike Bragman. Mr. Bragman accompanied the SI Team on the subject property.

(3) A site safety plan was developed and utilized by the site inspection team to assure safety from injury to all personnel during the site inspection of this facility. A briefing was conducted prior to the inspection, at which time it was stressed that OE should only be handled by military EOD personnel. During this on-site inspection, the assessment team maintained site safety at all times. A magnetometer was used due to grass cover to ensure safety of the SI Team.

(4) Prior to the site visit, a thorough review of all available reports, historical documents, texts, and technical ordnance reference materials gathered during the historical records search portion of the ASR was made, to ensure awareness of potential ordnance types and hazards.

b. **Area A: Target Area**

This area is located in the southeast corner of Section 26 centered in parcels 92, 93, 100, and 101 (see document L-1, J-1, J-2, J-3, J-5 and J-8). The area is nearly level with a few incidental trees and bushes. The majority of the land is Bahia grass and saw grass. There was no indication of target rings or the "bull's eye". The land has been disked many times and planted with Bahia grass for cattle. An aerial photograph taken in January 1996 shows the area being cut with a large mower which is what the SI Team witnessed during the visit (see document L-2). There was no indication of any OE or OE debris.

c. Area B: Target Buffer Area

The area surrounding the former Fort Lauderdale Bomb Target Area (Area A) was most likely used as a buffer area if in fact the target was actually used. The entire area has been disked, planted in Bahia grass, mowed several times a year and obviously was being used as a grazing area for cattle. The land is very level with little brush or trees. There is no visual OE or OE debris presence (see document J-8).

d. Area C: Remaining Land

This area is much the same as the above two areas. It is covered in high grass and there is a sprinkling of bushes and clumps of small trees. A canal and unimproved road run the entire eastern border of the site (see document J-6). The generally flat land is void of any type of OE contamination. No target debris was visible. This area, as with the other two, has been used for grazing cattle for many years.

7. EVALUATION OF ORDNANCE HAZARDS

a. General Procedures

(1) All lands known to have comprised the Fort Lauderdale Bomb Target Site No. 7 were evaluated to determine confirmed, potential, or uncontaminated ordnance presence. Confirmed ordnance contamination is based on verifiable historical evidence or direct witness of ordnance items since site closure. Verifiable historical records evidence consists of ordnance items located on site and documented by the local bomb squad, U. S. Army Explosive Ordnance Disposal Team, newspaper articles, correspondence, current findings, etc. Direct witness of ordnance items consists of the inspection team directly locating ordnance items by visual inspection. Additional field data is not needed to identify a confirmed subsite.

(2) Potential ordnance contamination is based on a lack of confirmed ordnance. Potential ordnance contamination is inferred from records or indirect witness. Inference from historical records would include common practice in production, storage, usage, or disposal, at that time, which could have allowed present day ordnance contamination. Potential ordnance contamination could also be based on indirect witness or from present day site features. Additional field data is needed to confirm potential ordnance subsites.

(3) Uncontaminated ordnance subsites are based on a lack of confirmed or potential ordnance evidence. All evidence found in historical records and present day site inspections do not indicate confirmed or potential ordnance contamination. There is no reasonable evidence, either direct or inferred, to suggest present day ordnance contamination. Additional field data is not needed to assess uncontaminated ordnance areas.

b. Area A: Target Area

(1) Using old maps and documents the target area was easily found (see documents E-5 and L-1). No information was found which indicated that the target was ever used. The area is much the same as the buffer area with tall grasses and grazing cattle. Again this area had been disked and planted and mowed at least three times a year with no indication of any OE.

(2) Even though Naval documents state a target had been present, there is no indication that this property was ever actually used as a range. No physical evidence at all such as OE, OE debris or target debris was found linking this area to a bombing target. The landowner and the land lessor both deny finding any type of OE or OE debris. The landowner provided a January 1996 Aerial map showing where he had removed topsoil and never found any type OE or OE debris (see document L-2). This area is nearly dead center of this target area. Additionally, during the site inspection a magnetometer sweep was made over the entire area with only 1 anomaly found (see documents J-5 and J-7).

(3) While it is evident the U.S. Navy did intend to develop this land into a dive bomb target, it is also evident that the target was never used. At the time the target was developed (1944) WW II was phasing down and the peace treaty was signed. Pilot training was cut drastically and there was no need to utilize this range for training. Based on these facts this area should be considered **uncontaminated**.

c. Area B: Target Buffer Area

(1) This area was most likely used as a buffer area or not used at all. There is no OE or OE debris presence. Neither is there any indication of any bombing target debris. None of the documents indicate that any practice or live bombs were dropped on the range. A Cancellation of Permit document (document E-2), state "no restoration is necessary".

(2) The entire area has been disked in the past and planted in grass for cattle grazing. The land is quite level and is under a heavy growth of planted grass. Some low trees and bushes are growing (see document J-8). Based on the lack of OE debris and documentation as stated for Area A, this area is to be considered **uncontaminated**.

d. Area C: Remaining Land

From the visual inspection it is quite apparent that this area was never a portion of the former Fort Lauderdale Bomb Target Site No. 7 used for training. As with the others it has been disked and mowed numerous times, rode over with horses, and been used as a cattle grazing range for many years. Based on these facts and observations Area C is to be considered **uncontaminated**.

8. SITE ORDNANCE TECHNICAL DATA

a. End Item Technical Data

Table 8-1 has been developed for reference purposes only to establish a list of potential ordnance items and their explosive/chemical fillers that would have most likely been used at this type of site. It is based upon available documentation and knowledge of this type of range in the WW II timeframe (see documents D-1 through D-4).

TABLE 8-1			
SUMMARY OF SITE-SPECIFIC ORDNANCE			
ITEM	MODEL/TYPE	FILLER/WEIGHT	FUZE/TYPE/MODEL
Bomb, Practice	MK-4, MK-23	Inert	N/A
	AN-MK-43		
Signal	MK-4	Titanium	N/A
		Tetrachloride	
		Red Phosphorus 10 gm	N/A
		Smokeless Powder 3 gm	N/A

* Confirmed on Site

b. Chemical Data of Ordnance Fillers

Table 8-2 has been developed to provide information on some of those items listed on Table 8-1.

TABLE 8-2
CHEMICAL DATA OF ORDNANCE FILLERS

Filler/Weight Chemical Formula	Synonym(s)	Chemical Compounds
Smokeless Powder Various % of: Nitrocellulose Dinitrotoluene Dibutylphalate Diphenylamine	Nitrocotton DNT Gelling Agent DPA, Stabilizer	$C_3H_5(ONO_2)_3$ $C_6H_2CH_3(NO_2)_2$ $C_6H_4(CO_2C_4H_9)_2$ $(C_6H_5)_2NH$
Red Phosphorus	RP, Red (DOT)	P_4
FS	Titanium Tetrachloride	$TiCl_4$

9. OTHER ENVIRONMENTAL HAZARDS

No potential HTRW or BD/DR hazards were noted that were not previously addressed by the Jacksonville District.

Appendix E

Site Photographs



Photograph 1 – Aerial view of the northern section of the project area. View toward the south.



Photograph 2 – Typical aerial view of the land tracts located west of U.S. Highway 27.
View toward the south.



Photograph 3 – Typical debris observed along the electrical transmission line right-of-way.
View toward the northwest.



Photograph 4 – Aerial view of Tracts 9201-075, 9201-076 and 9201-80 (Weekley Asphalt Property).
View toward the east.



Photograph 5 – Aerial view of Tract 9201-072 (former Weekley Maintenance Area and office location). View toward the east.



Photograph 6 – Aerial view of Tract 9201-111 (Levinson Property), U.S. Highway 27, and the adjacent Seminole T Truck Stop. View toward the south.



Photograph 7 – Aerial view of Tract 12102-012 (Gateswell/Nixon Property) and Tract 12102-013 (Bishop Property). View toward the west.



Photograph 8 – Aerial view of Tract 9200-902 and the eastern residential developments. View toward the southeast.



Photograph 9 – View of a former livestock pen located on Tract 9200-902. View toward the east.



Photograph 10 – Aerial view of an aboveground storage tank located on Tract 9200-930 (Kolt Property). The access road was flooded therefore the storage tank could not be inspected. The use and contents of the storage tank are unknown.



Photograph 11 – Aerial view of debris located on Tract 9200-921 (former Vietnamese Buddhist Cultural Center Property). View toward the southeast.



Photograph 12 – Aerial view of Tract 9312-003 (Carpomex of America/Cruz Property) and Tract 9312-025 (Montenegro Equipment Service/Delta Holdings Property). View toward the east.



Photograph 13 – Aerial view of two piles of dumped tires located on Tract 9312-018 (Correa Property).
View toward the southeast.



Photograph 14 – View of tire pile located on the southwest portion of Tract 9312-018 (Correa Property).
View toward the northwest.



Photograph 16 – View of tire pile located on the northern portion of Tract 9312-018 (Correa Property).
View toward the east.



Photograph 17 – Furrowed surface soils observed on Tract 9312-026 (Socarras Property). View toward
the north.

EAST COAST BUFFER REGIONAL SELENIUM PROJECT



Ecological Risk of Selenium in the Proposed East Coast Buffer Project Area

PREPARED FOR:



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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EXECUTIVE SUMMARY

The East Coast Buffer project area has been slated for construction by the South Florida Water Management District (District) and Army Corps of Engineers as part of Comprehensive Everglades Restoration Program. This project consists of areas C-11, C-9 and WCA3A/3B. Sampling and analysis from August 2006 in the C-11 project area indicate selenium concentrations in sediments ranging from less than 1 to 7.7 mg/Kg. The US Fish & Wildlife Service (USFWS) has expressed concern that restoration of the project areas may release selenium into the overlying water column resulting in elevated levels of risk to ecological receptors that may inhabit the area following restoration.

Additional sampling was conducted in the WCA 3A/3B, C-9 and C-11 areas to better define the mean selenium concentrations within each area. Discrete, or close composite, soil samples were collected in the linear WCA 3A/3B at 2,500 foot intervals. Much of the C-9 area was sampled at a rate of one close proximity discrete sample per 50 acres due to access limitations. Seven 50-acre grid cells within C-9 were sampled using a 10-point composite approach. C-11 was sampled at the rate of one discrete sample per 50-acres with no composite samples collected due to access issues.

The upper 95% UCL soil selenium concentrations calculated for discrete C-9, C-11 and WCA 3A/3B samples are 2.19 mg/kg, 2.63 mg/kg and 1.35 mg/kg respectively. The 95% UCL of composite soil samples from the northern portion of the C-9 was equal to 4.57 mg/kg. A batch leach test C-11 sediment samples indicates that less than 3 percent of the total selenium mass present in sediments were mobilized to the water and that selenium concentrations in surface waters that contact these sediments are expected to remain below the Florida surface water quality selenium standard of 0.005 mg/l for Class III fresh water (NewFields 2007). Additionally, the NewFields study indicated a very low probability that bioaccumulation of selenium in the food chain would result in reproductive effects to waterfowl that may inhabit the area and use it for breeding purposes after construction.

While NewFields' leaching study and the additional sample data collected suggests that the potential for risks to the environment due to selenium exposure are low, the presence of several areas of elevated selenium concentrations in surface soils in the southwest corner of the C-11 area and in the northern rectangular portion of C-9 are indicates the need for limited monitoring of surface water data following construction.

ECT also collected wetland area surface water samples in the vicinity of the high soil concentration areas. All six surface water samples reported non-detects (method detection limit of 0.5 ug/l). These concentrations are likely to reflect post-flooding conditions.

ECT, therefore, recommends the following, by project area.

WCA 3A/3B

The 95% UCL for selenium in soils within WCA 3A/3B is estimated to be 1.35 mg/kg. The concentration of residual pesticides and metals detected in the surficial soil within this section of the project area does not pose and unacceptable risk to the USFWS trustee species. Based on the regional concentration of selenium detected and the previous ecological risk assessments conducted in this area, no additional assessment or corrective actions are warranted.

C-9

The C-9 project area was divided into two areas for sampling and analysis of selenium concentrations. The first area was an approximately 1,600 hundred acre, squarely configured area located to the south. The second area was an approximately 400 acre rectangular area located to the north.

1,600 Acre Area

As part of the 1,600 acre area assessment, 34 discrete samples were collected for selenium analysis. The 95% UCL for selenium in soils within C-9 was calculated to be 2.19 mg/kg. Based upon previous discussions and coordination with the USFWS, the site specific selenium screening level concentration has a range of 2 mg/kg to approximately

4 mg/kg. In accordance with the site specific ecological risk assessment, the calculated selenium concentration of 2.19 mg/kg does not pose an unacceptable risk to the USFWS trustee species. Based upon the site specific conditions in this area, no further assessment or corrective action is warranted within this section of the project footprint.

400 Acre Area

The confirmation sampling included the collection of eight (8) composite soil samples from the 400-acre area. The 95% UCL for selenium in soils within the northern portion of the C-9 400-acre footprint was calculated to be 4.57 mg/kg. Based upon the desorption study and risk analysis conducted for this project, the detected concentration in the surficial soils may pose an unacceptable risk to waterfowl that may use this area for feeding and breeding purposes. Additional assessment and/or corrective action are warranted in this area prior to construction. These additional activities may include further ecological analysis of soil/sediment to develop a site specific remediation goal. Corrective action, which may include scraping/inverting or capping the area, could also be necessary to minimize the potential ecological risk to trust resources. The necessity for corrective action would be determined upon completion of the proposed additional assessment.

C-11

This assessment included the collection and analysis of 31 samples. The 95% UCL for selenium in soils within the C-11 footprint is estimated to be 2.63 mg/kg. Based on the desorption study and risk analysis conducted for the project area, the calculated concentration poses a low risk potential to future waterfowl that may use the areas for feeding and breeding purposes.

To further evaluate the potential impact of selenium, surface water samples were collected from onsite canal/ditches. The results of surface water samples collected for analysis did not indicate significant selenium concentrations. Based on the site specific conditions no further assessment or corrective action is warranted within this section of the project footprint.

In an effort to obtain additional data regarding the mobility of selenium within the environment, it is recommended that two quarters of post-construction surface water quality monitoring be conducted. It is anticipated that the concentration of selenium detected will be low and not pose risk to USFWS Trust species.

1.0 INTRODUCTION

1.1 PURPOSE

Phase I/II environmental assessments were completed as part of the District's pre-acquisition activities in the East Coast Buffer Project Area. The results of the pre-acquisition assessment and follow up studies have identified the presence of elevated concentrations of selenium in the surface soil. USFWS has indicated that the detection of selenium above 2 mg/kg may pose a potential for ecological risk to USFWS trustee species.

The initial assessment within the project areas identified concentrations ranging from less than 1 mg/kg to in excess of 7mg/kg. A desorption study and additional assessment of potential ecological risks from selenium were prepared indicating that only a small possibility of effects to waterfowl that may inhabit the area in the future exists at the upper levels of selenium concentrations (NewFields 2008). USFWS expressed concern that under conditions in which water in the area of elevated selenium concentrations was assumed to be stagnant for an extended period of time that the desorption study results indicated a possibility for effects to breeding waterfowl. In an effort to address concerns raised by the USFWS regarding the risk to waterfowl additional soil sampling was conducted. ECT proposed additional regional selenium sampling to demonstrate to the USFWS that comprehensive start up sampling and annual surface water quality monitoring for selenium may not be warranted. Subsequent communications between the USFWS and the District indicated that many of these concerns could be remedied by additional soil sampling within the project footprint to obtain a site wide average concentration for selenium. Based on BEM Systems, Inc. (BEM's) Phase II assessment data, barium was also analyzed since it exceeded initial screening values within the project footprint (BEM 2004) but is much less of a concern as an ecological risk than selenium. **Figures 1 and 2** illustrate the general ECB area and the project boundaries.

1.2 PROJECT BACKGROUND

The elevated selenium concentrations in the project area have been identified by a series of assessments and follow up studies. Currently no soil quality assessment guideline (SQAG) exists for selenium. USFWS has used varying screening concentrations based on periodic research to assess risk to trustee species. A brief summary of the relevant assessments and studies and their results is included below.

1.2.1 PHASE II ASSESSMENT

BEM conducted a Phase II Environmental Site Assessment (ESA) on behalf of the District at the East Coast Buffer Canal 11 (C-11) properties. The Phase II ESA was conducted to assess potential recognized environmental conditions associated with the properties noted in BEM's Phase I ESA, and information provided to BEM in a Phase I ESA prepared by CRB Geological & Environmental Services, Inc. (CRB) on behalf of the law firm representing the land owners in the condemnation process (Brigham Moore).

Selenium was reported in 13 of the 26 composite soil samples and in both of the duplicate soil samples that were collected at the C-11 properties. The maximum concentration of 1.4 mg/kg was found at the Bukele property. Selenium concentrations for the Lauderhill soil type in Broward County range from 2.45 mg/kg to 4.03 mg/kg (University of Florida 1999). The concentrations of selenium encountered in the discrete and composite soil samples collected during the C-11 Phase II ESA falls below this range. BEM presented the data and results of the UF study to the USFWS for review.

On December 5, 2002, BEM, USFWS and SFWMD met to discuss the results of the UF study and to determine if the range of selenium reported for the Lauderhill soil could be applied for this assessment as a natural background concentration for the soil samples, and on review of the data, it was agreed that it could. Because of the findings of the UF study and the approval of the USFWS of the background concentration of selenium, selenium was not considered to be a chemical of concern at the C-11 properties.

1.2.2 ECB SOIL SELENIUM ASSESSMENT

Shaw Environmental, Inc., (Shaw) conducted a selenium soil assessment on behalf of the District at ten tracts located within the 3A/3B, C-9, and C-11 project areas (Shaw 2007) in response to recommendations in the USFWS letter dated February 3, 2006. The analytical results of the 115 samples collected at the 10 tracts indicated that 73 soil samples had selenium concentrations at or above the 1.0 mg/kg interim guidance concentration. Forty-two of the samples were below the 1.0 mg/kg interim guidance concentration. Thirty-nine of these samples were listed as non-detect, but the laboratory's reporting limits were above the 1.0 mg/kg guidance concentration. Twenty-two of the samples had selenium concentrations at or above the 5.0 mg/kg, with the highest concentration at 7.7 mg/kg. Shaw contracted NewFields to conduct a 95% Upper Confidence Limit (UCL) on the mean selenium concentrations. NewFields calculated a UCL of 2.58 mg/kg.

1.2.3 LEACH TEST AND DESORPTION STUDY

NewFields conducted a batch leach testing of sediment samples collected from the C-11 project area to evaluate whether these sediments could release selenium by desorption or dissolution reactions, and to evaluate the selenium leaching potential. The batch leach test data indicated that the amount of selenium leached from C-11 sediments during these tests was less than 3 percent of the total selenium mass initially present, and the selenium concentrations in surface water that comes into contact with these sediments are expected to remain below the Florida surface water quality standard for selenium (0.005 mg/l for Class III fresh water).

Based on discussions with USFWS, NewFields conducted an expanded test consisting of aquarium sediment leaching for the evaluation of selenium in C-11 project area soils. This follow-up study allowed for a more direct estimate of selenium concentrations in surface water overlying soil/sediments from the site. The new methodology placed soils from the site into aquaria and incubated them with water for up to 98 days. Concentrations of selenium remained below Florida water quality standards and USFWS screening levels throughout the incubation period and the additional assessment indicated that reproductive risks to waterfowl were low.

1.3 SCOPE OF WORK

A scope of work was developed to conduct soil sampling within the project footprint to obtain a site wide average selenium concentration. The scope of work consisted of the following:

1.3.1 C-9 AND C-11 RESERVOIR

For project planning purposes, the C-11 project area was divided into 34 50-acre grids. The C-9 project area was divided into 42 50-acre grids. The assessment of the regional selenium impacts included the collection of ten discrete soil samples within five acre grids. Each soil sample was to be collected and combined into one sample representing a 50 acre composite sample. Each sampling coordinate was predetermined using GIS. The sampling locations were downloaded into a GPS for use in the field. It should be noted that this sampling plan could not be adhered to due to site conditions that are described in detail in section 2.0 of this report.

1.3.2 WCA 3A/3B SEEPAGE AREA

Water Conservation Area (WCA) 3A/3B is located on the west side of US Highway 27, and is the eastern edge of the WCA. The project area consists of approximately 5,500 acres. The majority of the property is undeveloped. No significant agricultural or industrial areas are located within the project footprint. There are several point source areas that have been excluded from the project footprint. Based on past limited agricultural use the District proposed to collect a close proximity sample at each 2,500 foot interval. Each close proximity composite sample consisted of five discrete samples. Each sampling coordinate was predetermined using GIS. The sampling locations were downloaded into a GPS unit for use in the field. In the event that they were relocated in the field, all actual sampling locations were recorded with a GPS unit.

1.3.3 SURFACE WATER SAMPLING

Surface water sampling was also conducted within specific areas of C9 and C11 where relatively higher selenium concentrations were observed. The surface water sampling was

conducted in the wetland or surface water bodies close to the high concentration selenium samples to observe the aqueous selenium concentration above soils with an elevated selenium concentration. A total of six (6), three within each C-9 and C-11, samples were collected to evaluate these areas.

1.3.4 QA/QC SAMPLING

Twenty percent of the soil samples were collected for quality assurance/quality control (QA/QC) measures. Ten percent of the QA/QC samples were submitted to the primary laboratory (Accutest) as duplicate samples. The remaining ten percent of the soil samples were submitted to Pace Analytical and Columbia Analytical Services.

1.3.5 DATA EVALUATION AND STATISTICAL DATA ANALYSIS

ECT prepared an ADaPT library and transmitted to the contract laboratory stating the District's project expectations with respect to reporting limits and lab QA/QC statistical limits on blank spikes, matrix spikes, lab duplicates, matrix spikes, etc. The analytical results were validated using ADaPT, and they were compared to sediment quality assessment guidelines and FDEP 62-777 groundwater and soil cleanup target levels. Tables were prepared to tabulate soil and groundwater quality on the property.

ECT conducted a statistical analysis of the data collected from the project areas. Summary statistics and a 95 % upper confidence limit of the mean were calculated for each site. This data was used in conjunction with the earlier selenium work conducted in the project areas to assess risk. A detailed description of the statistical analysis is included in Section 3 and the results and conclusions from these analyses are included in Section 4.

2.0 INVESTIGATIVE METHODOLOGIES

This section describes the sampling methodologies followed in C-11, C-9 and WCA 3A/3B. The sampling methods varied slightly in each of the three areas and are described in detail in a separate subsection.

2.1 SOIL BORING INSTALLATION

Soil borings were installed in each of three East Coast Buffer areas as described below. Soil sampling was conducted on February 17, 2010 for the WCA 3A/3B area, February 19, 24 and 25, 2010 for the C9 area, and February 23 and 26, 2010 at the C11 area.

2.1.1 C-11 AREA

A total of 34 50-acre grids were prepared during project planning. Soil samples were collected from zero to six (0-6") inches below land surface (bls) in 31 discrete sample locations in 50-acre increments in accordance with the *Protocol for Assessment, Remediation and Post-Remediation Monitoring for Environmental Contaminants on Everglades Restoration Projects* dated March 14, 2008, developed jointly with the USFWS, and approved by the FDEP. The proposal originally called for soil samples collected within every 5-acre grid and composited into one sample representing a 50-acre composite sample. This sampling plan could not be adhered to because of field conditions. It was jointly determined by ECT and the District project manager that 50-acre composite sampling would not be possible because of the presence of thick vegetation, access issues, and other environmental factors including wetland conditions and vegetative GPS signal disruption. It was concluded that one 50-acre discrete sample would be collected to represent the regional selenium and barium concentrations within the approximate 1,700 acres of area that encompasses the C-11 project boundary area. Wherever possible the actual sampling locations were recorded into a GPS unit, which the field team chose within the pre-programmed 50-acre grid. On other occasions where the GPS unit was unable to detect satellite signal because of environmental conditions, the field team chose a point along the line where the signal was last receivable and walked to a known distance to collect a sample. This was done to avoid collection of non-

representative samples which lay along the neighboring access road. The sampling point was noted in the field book by means of the distance from the reference point in the preprogrammed grid.

Figure 3 illustrates the actual sample locations within each 50-acre grid. It should also be noted that no access, either by road or on foot, was available to collect a sample within three (3) of the 34 50-acre grids. The soil borings were collected with a stainless steel trowel, marked 6 inches from the tip to allow sample collection to an exact depth. Care was taken to ensure that a soil column of uniform diameter was collected such that the sample was representative of average concentration of soil throughout the entire 6 inches, rather than weighting the sample with more soil from one end. The samples were collected in stainless steel bowls, mixed thoroughly, placed in pre-cleaned containers for transport to the laboratory, and placed on ice.

2.1.2 C-9 AREA

In areas where there was access to every 5-acre grid, soil samples were collected as a 50-acre composite sample. This resulted in a total of 8 composite samples representing the northern rectangular portion of the C-9 area. The remaining 34 soil samples were collected as 50-acre close-proximity discrete samples because of access issues similar to those described in the C-11 project area. The discrete samples represented a 50-acre grid with a soil sample collected at one location within that grid. The 50-acre composite samples were labeled CSS-C9-1 through CSS-C9-7 and the 50-acre discrete samples are labeled CSS-C9-17.

Figure 4 illustrates the sampling locations within this area. The Soil borings were collected with a stainless steel trowel, marked 6 inches from the tip to allow sample collection to an exact depth. Care was taken to ensure that a soil column of uniform diameter was collected such that the sample was representative of average concentration of soil throughout the entire 6 inches, rather than weighting the sample with more soil from either end. The samples were collected into stainless steel bowls, mixed thoroughly, placed in pre-cleaned containers for transport to the laboratory, and placed on ice. The primary soil samples were

sent to Accutest, and the split samples were sent to Columbia Analytical Services, Inc. (Columbia).

2.1.3 WCA 3A/3B AREA

The soil samples collected in WCA 3A/3B represented a close proximity discrete sample every 2,500 feet, as per the District proposal. Based on the sampling scheme a total of 34 discrete samples were collected representing the eastern edge of the WCA that lies west of US Highway 27. The project area consists of approximately 5,500 acres. The soil borings were collected with a stainless steel trowel, marked 6 inches from the tip to allow sample collection to an exact depth. Care was taken to ensure that a soil column of uniform diameter was collected such that the sample was representative of average concentration of soil throughout the entire 6 inches, rather than weighting the sample with more soil from either end. Five samples, starting with a central sample followed by four evenly spaced samples distributed radially at five foot intervals, were collected and homogenized to represent one close proximity sample. The samples were collected into stainless steel bowls, mixed thoroughly, placed in pre-cleaned containers for transport to the laboratory, and placed on ice.

2.2 SURFACE WATER SAMPLE COLLECTION

Surface water samples were collected by quiescent sampling techniques using a peristaltic pump and appropriate tubing. The length of the tubing was extended by connecting it to a 5' long PVC pipe so that the standing water was not disturbed during the approach to the sampling point. The pump was operated under low flow conditions at about 0.1 gallons per minute to collect a 500 ml aqueous selenium sample. Six (6) samples were collected to represent the surface water concentrations in the vicinity of six soil samples. The samples were sent to Pace to be analyzed for selenium using EPA method 6020.

2.3 SAMPLE CUSTODY, LABORATORY PROCEDURES AND ANALYSES

All sample transmittal forms were placed in waterproof bags and sealed in transport containers with the samples. Chain-of-custody seals were applied after the containers (coolers) were secured. All shipping bills from common carriers were kept with the forms.

All samples that were submitted to a laboratory were accompanied by a sample transmittal or chain-of-custody record.

2.4 QUALITY ASSURANCE/QUALITY CONTROL PROCEDURES

Quality assurance procedures used during this assessment included compliance with the FDEP SOP for Laboratory Operation and Sample Collection Activities. Specific quality assurance protocols and procedures for the analytical methodologies performed during this assessment were in accordance with FDEP SOP for laboratory analysis. Twenty percent of the soil samples were split for quality assurance/quality control (QA/QC) measures. Ten percent of the QA/QC samples were submitted to the primary laboratory as duplicate samples, whereas the remaining ten percent were submitted to two secondary laboratories, Pace and Columbia. This QA/QC procedure complies with the September 19, 2002 memorandum by Mr. Robert Kukleski and Mr. Robert Taylor of the District's Land Acquisition Support Division.

3.0 RESULTS

This section presents the results and conclusions from the sampling activities conducted within the East Coast Buffer project area. The soil samples were analyzed by Accutest Laboratories as the prime and by Pace and Columbia as the QA/QC split lab. Laboratory analytical reports are attached as **Appendix A**. The sample results from all three laboratories were verified using ADaPT 4.5.2. No critical errors were found during the error check. The results from the ADaPT error checks are included as **Appendix B**.

3.1 C-11 RESULTS

The 31 discrete samples collected within the C-11 area were analyzed for selenium, barium and total organic carbon (TOC). Selenium and barium were analyzed for all samples whereas TOC was analyzed for eight or approximately 25% of the total samples. 20% of the total samples were also analyzed for QA/QC purposes as duplicates and splits. Selenium and barium was analyzed using method 6020 as opposed to 6010, the later is known to be prone to matrix interference. A 95% upper confidence level (UCL) of the sample mean was calculated for selenium and barium. 95% UCL was calculated using FL UCL which is an Excel add-in tool developed by FDEP and the University of Florida to calculate the average concentration levels of a potential contaminate for a study site. Selenium concentrations ranged from 0.12 ppm to 6.4 ppm with a mean of 1.58 ppm. When a duplicate and split sample above detection limit existed, the mean was taken to calculate the UCL. When the lab returned split sample data that was below detection limits in one sample and within the quantifiable range in the other sample, only the quantifiable data was considered for calculations.

The 95% UCL values for selenium and barium are 2.62 ppm and 39.24 ppm respectively. Neither of these concentrations is above the FDEP mandated soil clean up target levels (SCTLs). The 95% UCL for selenium is lower than 4 mg/kg which is considered as a conservative risk assessment screening value based on the NewFields desorption and risk assessment studies. The 95% UCL for barium is above the sediment quality assessment guideline (SQAG) threshold effects concentrations (TECs) as developed by FDEP.

Review of the SQAG guidance document provides no information regarding the derivation of the TEC and PEC benchmarks for barium. The barium SQAGs are not representative of the typical consensus-based benchmarks provided for most of the metal contaminants in the guidance and no discussion regarding the underlying assumptions behind the benchmark is provided. A review of the referenced source for the benchmarks indicates that the author of the benchmark guidance obtained the benchmarks from a secondary source which was itself a draft document (SAIC 1991). Neither the secondary nor the primary US EPA sources (US EPA 1977) were located after an extensive search for both documents. Some information on the barium benchmarks was located in the Washington State Sediment Quality Guidelines document (WADOE 1997). The Washington document indicated that the benchmarks cited in the US EPA (1977) guidance developed by US EPA Region V in order to classify Great Lakes harbor sediments. The document notes that the values are ‘somewhat arbitrary and are not well founded scientifically’ and that they were only adequate for ‘determining the suitability of dredged material for open water disposal’. The barium benchmarks appear to be based not on benthic toxicity but on an unknown general ‘contamination classification’ scheme.

Based on the lack of PEC exceedances, the marginal exceedance of the TEC by the 95% UCL and the lack of scientific evidence that supports the use of the barium SQAGs for assessing ecological risk, it is highly unlikely that barium in the site soils would cause significant risk to a future aquatic community.

A correlation coefficient was calculated for the selenium and the TOC data. A significantly high positive correlation coefficient of 0.97 exists between these two data sets. A tabulation of the C-11 data is provided in **Table 1** and the 95% UCL calculations are attached as **Appendix C**. A figure showing the selenium exceeding 4 mg/kg and above FDEP SQAG TEC for barium are illustrated as **Figure 5**. **Figure 7** illustrates the barium exceedances in terms of the SQAGs.

Three surface water samples were collected from areas close to the discrete soil samples

CSS-C11-25, CSS-C11-30 and CSS-C11-34. All three samples reported concentrations lower than the 0.5 ug/l method detection limit. It is noteworthy that FDEP freshwater water quality standard for selenium is 5 ug/l. The surface water sample locations are illustrated as **Figure 8** and the analytical results are tabulated as **Table 4**.

3.2 C-9 RESULTS

The C-9 data, composed of eight 5-acre composite samples and 34 50-acre discrete samples, were analyzed for selenium, and ten samples were also analyzed for TOC. Consistent with the District protocol, QA/QC samples were also collected at the specified frequency described earlier. Due to the differences in sample collection protocol and the different scope of potential contamination measured by the two sampling techniques, separate 95% UCLs were calculated. As shown on **Figure 4**, the composite samples were geographically grouped with the exception of sample CSS-C9-17, all of the composite samples were collected within the 350 acre rectangular extension of the main C-9 area. Segregating the composite samples from the discrete samples allows for the statistically valid calculation of 95% UCLs in both areas. Results from sample CSS-C9-17 were excluded from both analyses because the sample was physically separated from the other composite samples. Selenium was not, however, detected in CSS-C9-17 indicating that its removal from the dataset did not negatively affect the statistical analysis.

FL UCL was used for data analysis of the discrete samples and US EPA software, ProUCL, was used for calculating the UCLs for the composite samples. ProUCL was used because FL UCL does not permit fewer than nine subsamples to be analyzed, however, due to the nature of collection and the average area concentration that they are intended to represent, it is reasonable to calculate a valid 95% UCL using a smaller number of composite samples.

The 34 discrete sample selenium concentrations ranged from 0.03 ppm to 6.50 ppm with a mean of 1.88 ppm. The 95 % UCL concentration was calculated to be 2.19 ppm for the discrete samples. ProUCL reported a concentration of 4.57 ppm for the 8 composite samples. A tabulation of the C-9 data is provided in **Table 2** and the 95% UCL

calculations are attached as Appendix A. **Figure 6** shows the selenium exceedances in relation to the 4 ppm screening level.

Since the composite samples from the northern portion of C-9 exhibited higher concentrations compared to the discrete samples collected in the remaining portion, two surface water samples were collected as representative of aqueous concentrations in relation to soil samples CSS-C9-4 and CSS-C9-5. These samples reported selenium concentrations lower than the MDL of 0.5 ug/l. Another surface water sample was collected as representative of aqueous concentrations in relation to soil sample CSS-C9-40. This sample also reported below the MDL (0.5 ug/l) for selenium. The sample locations are shown in **Figure 8**.

3.3 WCA 3A/3B Results

Thirty four close proximity discrete samples were collected from WCA 3A/3B which is used as a power transmission corridor west of US HWY 27. All the samples were analyzed for selenium and six samples were also analyzed for TOC. Additional samples were also collected as requested to comply with District QA/QC protocols. The selenium concentrations within this area ranged from 0.05 ppm to 3.40 ppm. The 95% UCL of the mean selenium concentration was calculated to be 1.35 ppm. The concentrations reported in this area were, in general, lower than the other two areas. No significant correlation coefficient relationship was observed for the selenium and TOC data. WCA 3A/3B data is provided in **Table 3** and the 95% UCL calculations are attached as Appendix B. No surface water samples were collected from this area.

3.4 DATA VALIDATION

All the three laboratories provided ECT with the ADaPT electronic data deliverables (EDDs) along with the reports and error logs. Upon receipt of the EDD with accompanying error log, ECT personnel imported the EDD into ADaPT, reviewed the error log generated by the laboratory's error check determine whether the comments were acceptable. ECT then re-ran the error check to confirm that no errors were present that had not been observed and commented on by the laboratory. The results from the ADaPT error checks are included as **Appendix B**.

4.0 CONCLUSIONS

The selenium concentrations observed at the C-11, C-9 and WCA 3A/3B are consistent with previous assessment results conducted within this area. None of the soils in the assessed project areas pose a human health risk. Calculated 95% UCL concentrations of selenium were 2.63 mg/kg, 2.19 mg/kg and 1.35 mg/kg in C-11, C-9 and WCA 3A/3B respectively. The selenium concentration in the northern portion of the C-9 impoundment was calculated separately because composite sampling was used. A 95% UCL of 4.57 mg/kg was reported for this area. It is ECT's belief that the concentrations observed in these areas may be indicative of background levels¹ since no anthropogenic point source could be attributed as a factor. The majority of the C-11 and C-9 areas have not been used for agricultural, commercial or industrial use and currently remain undeveloped.

Relatively higher concentrations of selenium were observed in the southwest section of C-11 and a north section of C-9. If the surface water concentrations that naturally exist at these areas are lower than state and federal water quality criteria, the release of contaminants will not likely occur after flooding these areas. This may also limit the need for any monitoring requirements following construction. Since the District's future project plans consists of inundating these areas to create surface water storage and seepage management areas, ECT conducted surface water sampling in these areas to demonstrate the existing selenium concentrations that exists in these areas that are in contact with the soil. Without such data and based on the results of this assessment, four quarters of post-construction surface water monitoring is recommended. Further sampling of standing water within the areas of elevated selenium concentration may result in lesser monitoring requirements.

¹ Geometric mean (GM) concentration of selenium in Histosol soil order: 0.967 ± 3.6 mg/kg; GM concentration in Entisol soil order: 0.081 ± 5.5 mg/kg; GM concentration in Spodosol soil order: 0.041 ± 5.1 mg/kg (Chen, et al, 1999).

ECT recommends the following, by project area.

WCA 3A/3B

The 95% UCL for selenium in soils within WCA 3A/3B is estimated to be 1.35 mg/kg. The concentration of residual pesticides and metals detected in the surficial soil within this section of the project area does not pose an unacceptable risk to the USFWS trustee species. Based on the regional concentration of selenium detected and the previous ecological risk assessments conducted in this area, no additional assessment or corrective actions are warranted.

C-9

The C-9 project area was divided into two areas for sampling and analysis of selenium concentrations. The first area was an approximately 1,600 hundred acre square configured area located to the south. The second area was an approximately 400 acre rectangular area located to the north.

1,600 Acre Area

As part of assessment of the 1,600 acre area, 34 discrete samples were collected for selenium analysis. The 95% UCL for selenium in soils within the C-9 was calculated to be 2.19 mg/kg. Based upon previous discussions and coordination with the USFWS, the site specific selenium concentration has a range of 2 mg/kg to approximately 4 mg/kg. In accordance with the site specific ecological risk assessment, the calculated selenium concentration of 2.19 mg/kg does not pose an unacceptable risk to the USFWS trustee species. Based upon the site specific conditions in this area, no further assessment or corrective action is warranted within this section of the project footprint.

400 Acre Area

The confirmation sampling included the collection of eight (8) composite soil samples from the 400 acre area. The 95% UCL for selenium in soils within the northern portion of the C-9 400-acre footprint was calculated to be 4.57 mg/kg. Based upon the desorption study and risk analysis conducted for this project, the detected concentration in the

surficial soils may pose an unacceptable risk to waterfowl that may use this area for feeding and breeding purposes. Additional assessment and/or corrective action are warranted in this area prior to construction. These additional activities may include further ecological analysis of soil/ sediment to develop a site specific remediation goal. Corrective action which may include scrapping/ inverting or capping the area could also be necessary to minimize the potential ecological risk to trust resources. The necessity for corrective action would be determined upon completion of the proposed additional assessment.

C-11

This assessment included the collection and analysis of 31 samples. The 95% UCL for selenium in soils within the C-11 footprint is estimated to be 2.63 mg/kg. Based on the desorption study and risk analysis conducted for the project area, the calculated concentration poses a low risk potential to future waterfowl that may use the areas for feeding and breeding purposes.

To further evaluate the potential impact of selenium surface water samples were collected from onsite canal /ditches. The results of surface water samples collected for analysis did not indicate insignificant selenium concentrations. Based on the site specific conditions no further assessment or corrective action is warranted within this section of the project footprint.

In an effort to obtain additional data regarding the mobility of selenium within the environment, it is recommended that two quarters of post-construction surface water quality monitoring should be conducted. It is anticipated that the concentration of selenium detected will be low and not pose a risk to UFWS trustee species.

5.0 REFERENCES

- 1) University of Florida Soil and Water Science Department. 1999. Background Concentrations of Trace Metals in Florida Surface Soils: Taxonomic and Geographical Distributions of Total-total and Total-recoverable Concentrations of Selected Trace Metals. Florida Center for Solid and Hazardous Waste Management Report #99-7.
- 2) BEM Systems. November 2002. Phase II Environmental Site Assessment East Coast Buffer Canal 11 26 Condemnation Properties.
- 3) Shaw Environmental. June 2007. Additional Selenium Sampling Assessment Results.
- 4) NewFields, LLC. January 2007. Selenium Leaching Potential of Sediment: C-11 Project Area.
- 5) Lemly, D.A. and Skorupa, J.A. 2007. "Technical Issues Affecting the Implementation of US Environmental Protection Agency's Proposed Fish Tissue-Based Aquatic Criterion for Selenium." Integrated Environmental Assessment and Management. Vol 3 (4), pp. 552-558.
- 6) NewFields, LLC. August 2008. Aquarium Sediment Leaching Studies Data Report, Broward County Water Protection Area, C-11 Impoundment.
- 7) FDEP. Chapter 62-302. Florida Surface Water Quality Standards.

TABLES

TABLE 1: SOIL BORING ANALYTICAL SUMMARY

Facility Name: C 11

Sample Designation	Sample Date	Depth To Water (ft)	Sample Interval	Selenium		Barium (mg/kg)	TOC (mg/kg)
				(mg/kg)	Qualifier		
CSS-C11-2	2/26/2010	NA	0-6"	0.95		22	12800
CSS-C11-3	2/26/2010	NA	0-6"	1.3		24.2	NA
CSS-C11-4	2/26/2010	NA	0-6"	2		55.6	NA
CSS-C11-5	2/26/2010	NA	0-6"	2		34.1	21800
CSS-C11-5D	2/26/2010	NA	0-6"	1.5		22.8	NA
CSS-C11-5*	2/26/2010	NA	0-6"	2.8		29.9	NA
CSS-C11-6	2/26/2010	NA	0-6"	2.4		50.5	NA
CSS-C11-7	2/26/2010	NA	0-6"	0.12	I	4.9	NA
CSS-C11-8	2/26/2010	NA	0-6"	0.55		33	NA
CSS-C11-9	2/26/2010	NA	0-6"	0.41	I	29.2	NA
CSS-C11-11	2/26/2010	NA	0-6"	0.66		36.5	NA
CSS-C11-13	2/26/2010	NA	0-6"	3.4		64.5	NA
CSS-C11-14	2/26/2010	NA	0-6"	0.63		19.2	NA
CSS-C11-15	2/26/2010	NA	0-6"	0.46	I	10.5	9620
CSS-C11-15 D	2/26/2010	NA	0-6"	0.8	I	15.1	NA
CSS-C11-15*	2/26/2010	NA	0-6"	0.88		11.2	NA
CSS-C11-16	2/26/2010	NA	0-6"	0.67		18.1	NA
CSS-C11-17	2/26/2010	NA	0-6"	0.33	I	11	9000
CSS-C11-17D	2/26/2010	NA	0-6"	0.24	I	12.5	9310
CSS-C11-17*	2/26/2010	NA	0-6"	0.34	I	9.6	91400
CSS-C11-18	2/23/2010	NA	0-6"	2.5		30.5	NA
CSS-C11-19	2/23/2010	NA	0-6"	1.8		25.8	NA
CSS-C11-20	2/23/2010	NA	0-6"	0.069	U	5	3590
CSS-C11-20D	2/23/2010	NA	0-6"	0.072	I	4.4	NA
CSS-C11-20**	2/23/2010	NA	0-6"	0.6	U	NA	8300
CSS-C11-21	2/23/2010	NA	0-6"	1.1		30	NA
CSS-C11-22	2/26/2010	NA	0-6"	0.17	I	12.3	NA
CSS-C11-23	2/26/2010	NA	0-6"	0.2	I	12.9	NA
CSS-C11-24	2/26/2010	NA	0-6"	0.22	I	11.9	NA
CSS-C11-25	2/23/2010	NA	0-6"	2.4		40	36600
CSS-C11-25D	2/23/2010	NA	0-6"	3.2		46.4	NA
CSS-C11-25**	2/23/2010	NA	0-6"	6.1	I	NA	NA
CSS-C11-26	2/23/2010	NA	0-6"	2		33.3	NA
CSS-C11-27	2/23/2010	NA	0-6"	2.3		37.1	NA
CSS-C11-28	2/23/2010	NA	0-6"	2		22.8	NA
CSS-C11-29	2/23/2010	NA	0-6"	2.2		31.9	NA
CSS-C11-30	2/23/2010	NA	0-6"	3.1		40.1	38900
CSS-C11-30D	2/23/2010	NA	0-6"	3.4		65.6	NA
CSS-C11-30**	2/23/2010	NA	0-6"	5.9	I	NA	NA
CSS-C11-31	2/23/2010	NA	0-6"	1.7		27.5	NA
CSS-C11-32	2/26/2010	NA	0-6"	0.16	I	17.4	9540
CSS-C11-33	2/23/2010	NA	0-6"	2		36.7	NA
CSS-C11-34	2/23/2010	NA	0-6"	5.3		71.6	NA
CSS-C11-34D	2/23/2010	NA	0-6"	5.9		71.2	NA
CSS-C11-34**	2/23/2010	NA	0-6"	6.4	I	NA	NA
¹ Residential SCTL				440		120	
² Industrial SCTL				11,000		130,000	
³ Groundwater Leachability SCTL				5.5		1,600	
⁴ SQAG TEC						20.0	
⁴ SQAG PEC						60.0	
⁵ Other Standard				4.0			

1 Soil Cleanup Target Level, Direct Exposure, Residential Use, Chapter 62-777, FAC

2 Soil Cleanup Target Level, Direct Exposure, Commercial/Industrial Use, Chapter 62-777, FAC

3 Leachability Based on Groundwater Criteria, Chapter 62-777, FAC

4 Sediment Quality Assessment Guideline, Technical Report, January 2003

5 Interim Screening Level Applied by USFWS, Protective of Avian Receptors

NA = Not Analyzed

I = Analyte detected but could not be quantified with certainty, value lies between MDL and PQL

U = Below MDL

Suffix "D" are Duplicate Samples

* Analyzed by Pace Analytical as Split Samples

** Analyzed by Columbia Analytical Services, Inc.

TABLE 2: SOIL BORING ANALYTICAL SUMMARY

Facility Name: C 9

Sample Designation	Sample Date	Depth To Water (ft)	Sample Interval	Selenium		TOC (mg/kg)
				(mg/kg)	Qualifier	
CSS-C9-1	2/19/2010	NA	0-6"	3.7	I	28200
CSS-C9-2	2/19/2010	NA	0-6"	3.8		NA
CSS-C9-3	2/19/2010	NA	0-6"	4.3		NA
CSS-C9-4	2/19/2010	NA	0-6"	4.4		NA
CSS-C9-5	2/19/2010	NA	0-6"	4		26000
CSS-C9-5D	2/19/2010	NA	0-6"	4.6		39200
CSS-C9-5*	2/19/2010	NA	0-6"	6.5		180000
CSS-C9-6	2/19/2010	NA	0-6"	4.5		NA
CSS-C9-7	2/25/2010	NA	0-6"	3.4		NA
CSS-C9-8	2/24/2010	NA	0-6"	0.094	I	NA
CSS-C9-9	2/24/2010	NA	0-6"	0.068	U	NA
CSS-C9-10	2/24/2010	NA	0-6"	0.065	U	NA
CSS-C9-10D	2/24/2010	NA	0-6"	0.059	I	NA
CSS-C9-10*	2/24/2010	NA	0-6"	0.5	I	NA
CSS-C9-11	2/25/2010	NA	0-6"	2.2		2460
CSS-C9-12	2/25/2010	NA	0-6"	1.5		NA
CSS-C9-13	2/25/2010	NA	0-6"	1.6		NA
CSS-C9-14	2/25/2010	NA	0-6"	2.6		NA
CSS-C9-15	2/24/2010	NA	0-6"	0.34	I	12100
CSS-C9-15D	2/24/2010	NA	0-6"	0.48		NA
CSS-C9-15*	2/24/2010	NA	0-6"	1	I	NA
CSS-C9-16	2/24/2010	NA	0-6"	0.42	I	NA
CSS-C9-17	2/24/2010	NA	0-6"	0.56		NA
CSS-C9-18	2/24/2010	NA	0-6"	0.45		NA
CSS-C9-19	2/25/2010	NA	0-6"	0.4	I	NA
CSS-C9-20	2/24/2010	NA	0-6"	0.087	I	17900
CSS-C9-20D	2/24/2010	NA	0-6"	0.08	I	17200
CSS-C9-20*	2/24/2010	NA	0-6"	0.6	I	7700
CSS-C9-21	2/25/2010	NA	0-6"	1.9		NA
CSS-C9-22	2/25/2010	NA	0-6"	1.8		NA
CSS-C9-23	2/25/2010	NA	0-6"	2.3		NA
CSS-C9-24	2/25/2010	NA	0-6"	1.7	I	NA
CSS-C9-25	2/25/2010	NA	0-6"	2.1		33500
CSS-C9-25D	2/25/2010	NA	0-6"	1.9		NA
CSS-C9-25*	2/25/2010	NA	0-6"	2.6	I	NA
CSS-C9-26	2/25/2010	NA	0-6"	1.7		NA
CSS-C9-27	2/25/2010	NA	0-6"	1.7		NA
CSS-C9-28	2/25/2010	NA	0-6"	1.5		NA
CSS-C9-29	2/25/2010	NA	0-6"	1.7		NA
CSS-C9-30	2/25/2010	NA	0-6"	1.9		24000
CSS-C9-30D	2/25/2010	NA	0-6"	2.1		33000
CSS-C9-30*	2/25/2010	NA	0-6"	3	I	100000
CSS-C9-31	2/25/2010	NA	0-6"	3.1		NA
CSS-C9-32	2/25/2010	NA	0-6"	3.2		NA
CSS-C9-33	2/25/2010	NA	0-6"	3.8		NA
CSS-C9-34	2/25/2010	NA	0-6"	3.2		NA
CSS-C9-35	2/24/2010	NA	0-6"	1.6		20900
CSS-C9-35D	2/24/2010	NA	0-6"	2		NA
CSS-C9-35*	2/24/2010	NA	0-6"	2.8	I	NA
CSS-C9-36	2/24/2010	NA	0-6"	2.7		NA
CSS-C9-37	2/24/2010	NA	0-6"	2.2		NA
CSS-C9-38	2/24/2010	NA	0-6"	2.2		NA
CSS-C9-39	2/24/2010	NA	0-6"	3		NA
CSS-C9-40	2/25/2010	NA	0-6"	2.3		39300
CSS-C9-40D	2/25/2010	NA	0-6"	3.5		31000
CSS-C9-40*	2/25/2010	NA	0-6"	4.5	I	NA
CSS-C9-41	2/25/2010	NA	0-6"	3		NA
CSS-C9-42	2/25/2010	NA	0-6"	2.7		33400
¹ Residential SCTL				440		
² Industrial SCTL				11,000		
³ Groundwater Leachability SCTL				5.5		
⁴ SQAG TEC						
⁵ SQAG PEC						
⁶ Other Standard				4.0		

1 Soil Cleanup Target Level, Direct Exposure, Residential Use, Chapter 62-777, FAC

2 Soil Cleanup Target Level, Direct Exposure, Commercial/Industrial Use, Chapter 62-777, FAC

3 Leachability Based on Groundwater Criteria, Chapter 62-777, FAC

4 Sediment Quality Assessment Guideline, Technical Report, January 2003

5 Interim Screening Level Applied by USFWS, Protective of Avian Receptors

NA = Not Analyzed

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U = Below MDL

Suffix "D" are Duplicate Samples

* Analyzed by Columbia Analytical Services, Inc. as Split Samples

TABLE 3: SOIL BORING ANALYTICAL SUMMARY

Facility Name: Water Conservation Area 3A/3B

Sample Designation	Sample Date	Depth To Water (ft)	Sample Interval	Selenium		TOC (mg/kg)
				(mg/kg)	Qualifier	
CSS-WCA-1	2/17/2010	NA	0-6"	1.5	I	NA
CSS-WCA-2	2/17/2010	NA	0-6"	1	I	NA
CSS-WCA-3	2/17/2010	NA	0-6"	2	I	NA
CSS-WCA-4	2/17/2010	NA	0-6"	1.1	I	NA
CSS-WCA-5	2/17/2010	NA	0-6"	1.9		48700
CSS-WCA-5D	2/17/2010	NA	0-6"	2.6		NA
CSS-WCA-5*	2/17/2010	NA	0-6"	2.8		NA
CSS-WCA-6	2/17/2010	NA	0-6"	1.1	I	NA
CSS-WCA-7	2/17/2010	NA	0-6"	0.1	U	NA
CSS-WCA-8	2/17/2010	NA	0-6"	0.13	U	NA
CSS-WCA-9	2/17/2010	NA	0-6"	1.9		NA
CSS-WCA-10	2/17/2010	NA	0-6"	0.38	I	30200
CSS-WCA-10D	2/17/2010	NA	0-6"	0.65	I	NA
CSS-WCA-10*	2/17/2010	NA	0-6"	1.2		NA
CSS-WCA-11	2/17/2010	NA	0-6"	1.3		NA
CSS-WCA-12	2/17/2010	NA	0-6"	0.093	U	NA
CSS-WCA-13	2/17/2010	NA	0-6"	0.13	I	NA
CSS-WCA-14	2/17/2010	NA	0-6"	1.4	I	NA
CSS-WCA-15	2/17/2010	NA	0-6"	0.16	U	20900
CSS-WCA-15D	2/17/2010	NA	0-6"	0.55	I	NA
CSS-WCA-15*	2/17/2010	NA	0-6"	1.4		NA
CSS-WCA-16	2/17/2010	NA	0-6"	1.8		NA
CSS-WCA-17	2/17/2010	NA	0-6"	1.9		NA
CSS-WCA-18	2/17/2010	NA	0-6"	0.2	U	NA
CSS-WCA-19	2/17/2010	NA	0-6"	0.55	I	NA
CSS-WCA-20	2/17/2010	NA	0-6"	1.6		44800
CSS-WCA-20D	2/17/2010	NA	0-6"	2.4		30500
CSS-WCA-20*	2/17/2010	NA	0-6"	3.4		236000
CSS-WCA-21	2/17/2010	NA	0-6"	0.32	I	NA
CSS-WCA-22	2/17/2010	NA	0-6"	1.5		NA
CSS-WCA-23	2/17/2010	NA	0-6"	0.23	I	NA
CSS-WCA-24	2/17/2010	NA	0-6"	0.15	I	NA
CSS-WCA-25	2/17/2010	NA	0-6"	3.3		31600
CSS-WCA-25D	2/17/2010	NA	0-6"	2.3		NA
CSS-WCA-25*	2/17/2010	NA	0-6"	3.4		NA
CSS-WCA-26	2/17/2010	NA	0-6"	1.3		NA
CSS-WCA-27	2/17/2010	NA	0-6"	1		NA
CSS-WCA-28	2/17/2010	NA	0-6"	1		NA
CSS-WCA-29	2/17/2010	NA	0-6"	0.9		NA
CSS-WCA-30	2/17/2010	NA	0-6"	0.64		30600
CSS-WCA-30D	2/17/2010	NA	0-6"	0.65	I	22600
CSS-WCA-30*	2/17/2010	NA	0-6"	1		74500
CSS-WCA-31	2/17/2010	NA	0-6"	2		NA
CSS-WCA-32	2/17/2010	NA	0-6"	0.42	I	NA
CSS-WCA-32D	2/17/2010	NA	0-6"	0.56	I	NA
CSS-WCA-32*	2/17/2010	NA	0-6"	0.89		NA
CSS-WCA-33	2/17/2010	NA	0-6"	1.7		NA
CSS-WCA-34	2/17/2010	NA	0-6"	1.1		NA
¹ Residential SCTL				440		
² Industrial SCTL				11,000		
³ Groundwater Leachability SCTL				5.5		
⁴ SQAG TEC						
⁴ SQAG PEC						
⁵ Other Standard				4.0		

1 Soil Cleanup Target Level, Direct Exposure, Residential Use, Chapter 62-777, FAC

2 Soil Cleanup Target Level, Direct Exposure, Commercial/Industrial Use, Chapter 62-777, FAC

3 Leachability Based on Groundwater Criteria, Chapter 62-777, FAC

4 Sediment Quality Assessment Guideline, Technical Report, January 2003

5 Interim Screening Level Applied by USFWS, Protective of Avian Receptors

NA = Not Analyzed

I = Analyte detected but could not be quantified with certainty, value lies between MDL and PQL

U = Below MDL

Suffix "D" are Duplicate Samples

* Analyzed by Pace Analytical as Split Samples

TABLE 4: SURFACE WATER ANALYTICAL SUMMARY

Facility Name: East Coast Buffer

Sample Designation	Sample Date	Depth To Water (ft)	Sample Interval	Selenium	
				(ug/L)	Qualifier
SW-C11-1	4/14/2010	NA	NA	0.5	U
SW-C11-2	4/14/2010	NA	NA	0.5	U
SW-C11-3	4/14/2010	NA	NA	0.5	U
SW-C9-1	4/14/2010	NA	NA	0.5	U
SW-C9-2	4/14/2010	NA	NA	0.5	U
SW-C9-3	4/14/2010	NA	NA	0.5	U
¹ Groundwater Criteria				50	
² Freshwater Surface Water Criteria				5	
³ Marine Surface Water Criteria				71.0	
⁴ Groundwater of Low Yield/Poor Quality Criteria				500.00	

1 Groundwater and Surface Water Cleanup Target Levels, Chapter 62-777, FAC

2 Groundwater and Surface Water Cleanup Target Levels, Chapter 62-777, FAC

3 Groundwater and Surface Water Cleanup Target Levels, Chapter 62-777, FAC

4 Groundwater and Surface Water Cleanup Target Levels, Chapter 62-777, FAC

U = Below MDL

FIGURES



Figure:

1

CREATED BY: CTM
 CHECKED BY: BDW
 SCALE: AS NOTED
 DATE: 3/2/2010

C-11 AND WCA 3A/3B
 PROJECT AREA

ECT
 Environmental Consulting & Technology, Inc.



Figure:

2

CREATED BY: CTM
CHECKED BY: BDW
SCALE: AS NOTED
DATE: 3/2/2010

**C-9 AND WCA 3A/3B
PROJECT AREA**

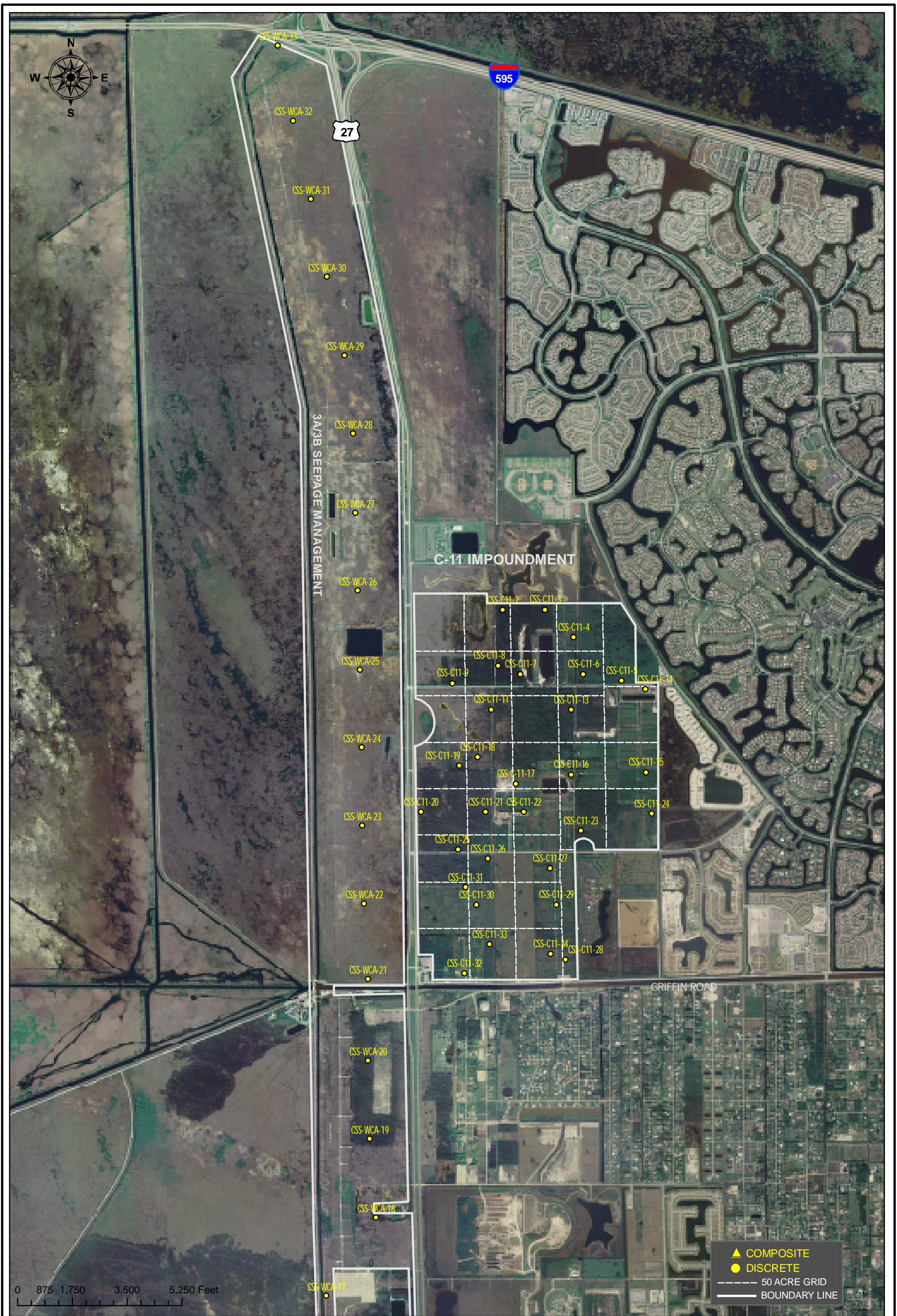


Figure: 3
 CREATED BY: CTM
 CHECKED BY: BDW
 SCALE: AS NOTED
 DATE: 3/2/2010

**C-9 / C-11 / WCA 3A/3B
 SAMPLING LOCATION**





Figure:
4

CREATED BY: CTM
 CHECKED BY: BDW
 SCALE: AS NOTED
 DATE: 3/2/2010

C-9 / C-11 / WCA 3A/3B
 SAMPLING LOCATION





Figure:
5

CREATED BY: PA
CHECKED BY: BDW
SCALE: AS NOTED
DATE: 4/7/2010

C-11 IMPOUNDMENT SELENIUM EXCEEDANCE



Figure:
6

CREATED BY: CTM
 CHECKED BY: BDW
 SCALE: AS NOTED
 DATE: 5/2010

C-9 IMPOUNDMENT
 SELENIUM EXCEEDANCE

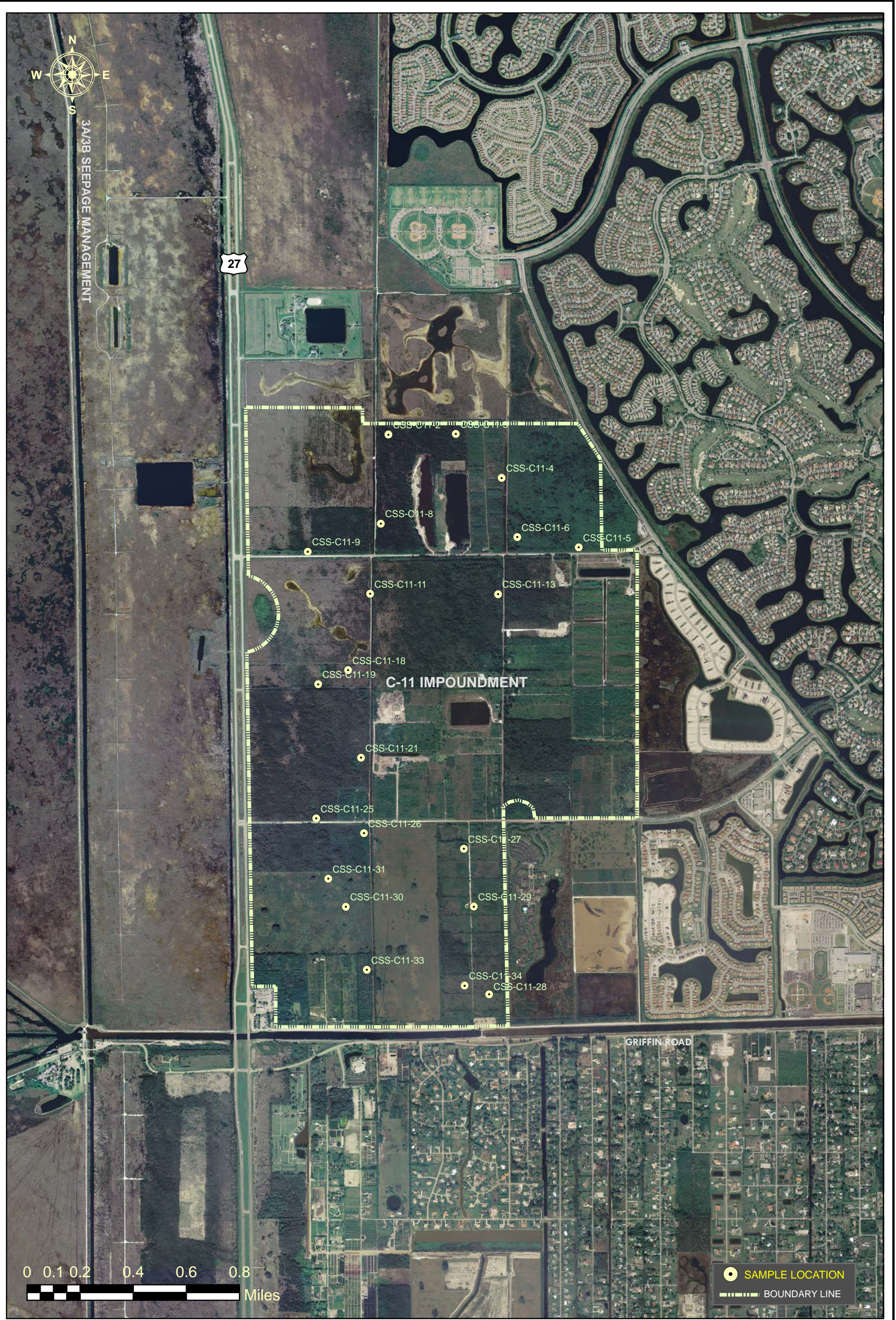


Figure:
7

CREATED BY: PA
CHECKED BY: BDW
SCALE: AS NOTED
DATE: 4/7/2010

C-11 IMPOUNDMENT
BARIUM EXCEEDANCE



Figure:
8

CREATED BY: CTM
CHECKED BY: BDW
SCALE: AS NOTED
DATE: 3/2/2010

SURFACE WATER SAMPLE LOCATIONS

EAST COAST BUFFER

APPENDIX A

LABORATORY ANALYTICAL DATA



Technical Report for

ECT

C-11 Speciation Sampling, Broward Co, FL

10-0096

Accutest Job Number: F71678

Sampling Dates: 02/19/10 - 02/25/10

Report to:


ECT
6300 NE 1st St Suite 100
Ft Lauderdale, FL 33334
padak@ectinc.com

ATTN: Probas Adak

Total number of pages in report: **121**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Sue Bell 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Test results relate only to samples analyzed.



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Sample Summary

ECT

Job No: F71678

C-11 Speciation Sampling, Broward Co, FL
 Project No: 10-0096

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F71678-1	02/23/10	14:25 MCD	02/27/10	SO	Soil	CSS-C11-18
F71678-2	02/23/10	14:45 MCD	02/27/10	SO	Soil	CSS-C11-19
F71678-3	02/23/10	14:05 MCD	02/27/10	SO	Soil	CSS-C11-20
F71678-4	02/23/10	13:45 MCD	02/27/10	SO	Soil	CSS-C11-21
F71678-5	02/23/10	11:02 MCD	02/27/10	SO	Soil	CSS-C11-25
F71678-6	02/23/10	09:05 MCD	02/27/10	SO	Soil	CSS-C11-26
F71678-7	02/23/10	11:32 MCD	02/27/10	SO	Soil	CSS-C11-27
F71678-8	02/23/10	12:35 MCD	02/27/10	SO	Soil	CSS-C11-28
F71678-9	02/23/10	11:55 MCD	02/27/10	SO	Soil	CSS-C11-29
F71678-10	02/23/10	09:35 MCD	02/27/10	SO	Soil	CSS-C11-30
F71678-11	02/23/10	10:05 MCD	02/27/10	SO	Soil	CSS-C11-31
F71678-12	02/23/10	10:20 MCD	02/27/10	SO	Soil	CSS-C11-33
F71678-13	02/23/10	12:15 MCD	02/27/10	SO	Soil	CSS-C11-34

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

ECT

Job No: F71678

C-11 Speciation Sampling, Broward Co, FL
 Project No: 10-0096

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F71678-14	02/24/10	07:09 MCD	02/27/10	SO	Soil	CSS-C9-8
F71678-15	02/24/10	07:38 MCD	02/27/10	SO	Soil	CSS-C9-9
F71678-16	02/24/10	07:52 MCD	02/27/10	SO	Soil	CSS-C9-10
F71678-17	02/24/10	08:14 MCD	02/27/10	SO	Soil	CSS-C9-15
F71678-18	02/24/10	08:32 MCD	02/27/10	SO	Soil	CSS-C9-16
F71678-19	02/24/10	09:17 MCD	02/27/10	SO	Soil	CSS-C9-17
F71678-20	02/24/10	09:52 MCD	02/27/10	SO	Soil	CSS-C9-18
F71678-21	02/24/10	10:19 MCD	02/27/10	SO	Soil	CSS-C9-19
F71678-22	02/24/10	10:46 MCD	02/27/10	SO	Soil	CSS-C9-20
F71678-23	02/24/10	11:15 MCD	02/27/10	SO	Soil	CSS-C9-25
F71678-24	02/24/10	11:39 MCD	02/27/10	SO	Soil	CSS-C9-26
F71678-25	02/24/10	12:19 MCD	02/27/10	SO	Soil	CSS-C9-27
F71678-26	02/24/10	12:50 MCD	02/27/10	SO	Soil	CSS-C9-28

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

ECT

Job No: F71678

C-11 Speciation Sampling, Broward Co, FL
 Project No: 10-0096

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F71678-27	02/24/10	13:22 MCD	02/27/10	SO	Soil	CSS-C9-29
F71678-28	02/24/10	13:50 MCD	02/27/10	SO	Soil	CSS-C9-30
F71678-29	02/24/10	14:15 MCD	02/27/10	SO	Soil	CSS-C9-35
F71678-30	02/24/10	14:48 MCD	02/27/10	SO	Soil	CSS-C9-36
F71678-31	02/24/10	15:26 MCD	02/27/10	SO	Soil	CSS-C9-37
F71678-32	02/24/10	15:55 MCD	02/27/10	SO	Soil	CSS-C9-38
F71678-33	02/24/10	16:20 MCD	02/27/10	SO	Soil	CSS-C9-39
F71678-34	02/25/10	07:39 MCD	02/27/10	SO	Soil	CSS-C9-11
F71678-35	02/25/10	07:15 MCD	02/27/10	SO	Soil	CSS-C9-12
F71678-36	02/25/10	08:15 MCD	02/27/10	SO	Soil	CSS-C9-13
F71678-37	02/25/10	08:46 MCD	02/27/10	SO	Soil	CSS-C9-14
F71678-38	02/25/10	09:34 MCD	02/27/10	SO	Soil	CSS-C9-21
F71678-39	02/25/10	09:17 MCD	02/27/10	SO	Soil	CSS-C9-22

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

ECT

Job No: F71678

C-11 Speciation Sampling, Broward Co, FL

Project No: 10-0096

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F71678-40	02/25/10	09:56 MCD	02/27/10	SO	Soil	CSS-C9-23
F71678-41	02/25/10	10:19 MCD	02/27/10	SO	Soil	CSS-C9-24
F71678-42	02/25/10	10:48 MCD	02/27/10	SO	Soil	CSS-C9-32
F71678-43	02/25/10	11:18 MCD	02/27/10	SO	Soil	CSS-C9-31
F71678-44	02/25/10	12:19 MCD	02/27/10	SO	Soil	CSS-C9-33
F71678-45	02/25/10	12:40 MCD	02/27/10	SO	Soil	CSS-C9-34
F71678-46	02/25/10	13:10 MCD	02/27/10	SO	Soil	CSS-C9-40
F71678-47	02/25/10	13:45 MCD	02/27/10	SO	Soil	CSS-C9-41
F71678-48	02/25/10	14:18 MCD	02/27/10	SO	Soil	CSS-C9-42
F71678-49	02/19/10	11:29 MCD	02/27/10	SO	Soil	CSS-C9-1
F71678-50	02/19/10	12:43 MCD	02/27/10	SO	Soil	CSS-C9-2
F71678-51	02/19/10	09:52 MCD	02/27/10	SO	Soil	CSS-C9-3
F71678-52	02/19/10	13:16 MCD	02/27/10	SO	Soil	CSS-C9-4

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

ECT

Job No: F71678

C-11 Speciation Sampling, Broward Co, FL
 Project No: 10-0096

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F71678-53	02/19/10	14:03	MCD 02/27/10	SO	Soil	CSS-C9-5
F71678-54	02/19/10	10:48	MCD 02/27/10	SO	Soil	CSS-C9-6
F71678-55	02/25/10	15:08	MCD 02/27/10	SO	Soil	CSS-C9-7
F71678-56	02/25/10	00:00	MCD 02/27/10	SO	Soil	CSS-C9-43
F71678-57	02/25/10	00:00	MCD 02/27/10	SO	Soil	CSS-C9-44

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: CSS-C11-18	Date Sampled: 02/23/10
Lab Sample ID: F71678-1	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 40.7
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	30.5	0.42	0.032	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	2.5	0.42	0.048	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-19	Date Sampled: 02/23/10
Lab Sample ID: F71678-2	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 62.3
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	25.8	0.43	0.033	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	1.8	0.43	0.050	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-20	Date Sampled: 02/23/10
Lab Sample ID: F71678-3	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 83.1
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	5.0	0.59	0.045	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	0.069 U	0.59	0.069	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-20	Date Sampled: 02/23/10
Lab Sample ID: F71678-3	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 83.1
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	83.1			%	1	03/02/10	CP	SM19 2540B M
Total Organic Carbon	3590	1200	600	mg/kg	1	03/16/10 14:01	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-21	Date Sampled: 02/23/10
Lab Sample ID: F71678-4	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 44.0
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	30.0	0.55	0.042	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	1.1	0.55	0.064	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-25	Date Sampled: 02/23/10
Lab Sample ID: F71678-5	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 33.4
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	40.0	0.50	0.038	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	2.4	0.50	0.058	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-25	Date Sampled: 02/23/10
Lab Sample ID: F71678-5	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 33.4
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	33.4			%	1	03/02/10	CP	SM19 2540B M
Total Organic Carbon	36600	3000	1500	mg/kg	1	03/16/10 14:27	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-26	Date Sampled: 02/23/10
Lab Sample ID: F71678-6	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 29.2
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	33.3	0.58	0.044	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	2.0	0.58	0.067	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-27	Date Sampled: 02/23/10
Lab Sample ID: F71678-7	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 41.2
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	37.1	0.58	0.044	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	2.3	0.58	0.067	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-28	Date Sampled: 02/23/10
Lab Sample ID: F71678-8	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 34.2
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	22.8	0.49	0.038	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	2.0	0.49	0.057	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-29	Date Sampled: 02/23/10
Lab Sample ID: F71678-9	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 58.2
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	31.9	0.43	0.033	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	2.2	0.43	0.050	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-30		Date Sampled: 02/23/10
Lab Sample ID: F71678-10		Date Received: 02/27/10
Matrix: SO - Soil		Percent Solids: 35.3
Project: C-11 Speciation Sampling, Broward Co, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	40.1	0.55	0.042	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	3.1	0.55	0.064	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-30	Date Sampled: 02/23/10
Lab Sample ID: F71678-10	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 35.3
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	35.3			%	1	03/02/10	CP	SM19 2540B M
Total Organic Carbon	38900	2800	1400	mg/kg	1	03/16/10 14:45	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-31	Date Sampled: 02/23/10
Lab Sample ID: F71678-11	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 54.4
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	27.5	0.46	0.035	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	1.7	0.46	0.053	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-33	Date Sampled: 02/23/10
Lab Sample ID: F71678-12	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 51.8
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	36.7	0.49	0.037	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	2.0	0.49	0.057	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-34	Date Sampled: 02/23/10
Lab Sample ID: F71678-13	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 25.6
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	71.6	0.67	0.051	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	5.3	0.67	0.078	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-8	Date Sampled: 02/24/10
Lab Sample ID: F71678-14	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 90.3
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.094 I	0.58	0.067	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-9	Date Sampled: 02/24/10
Lab Sample ID: F71678-15	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 89.0
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.068 U	0.58	0.068	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-10	Date Sampled: 02/24/10
Lab Sample ID: F71678-16	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 88.3
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.065 U	0.56	0.065	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-10	Date Sampled: 02/24/10
Lab Sample ID: F71678-16	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 88.3
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	88.3			%	1	03/02/10	CP	SM19 2540B M
Total Organic Carbon	2460	1100	570	mg/kg	1	03/16/10 15:18	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-15	Date Sampled: 02/24/10
Lab Sample ID: F71678-17	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 53.4
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.34 I	0.48	0.056	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-15	Date Sampled: 02/24/10
Lab Sample ID: F71678-17	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 53.4
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	53.4			%	1	03/02/10	CP	SM19 2540B M
Total Organic Carbon	12100	1900	940	mg/kg	1	03/16/10 17:58	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-16	Date Sampled: 02/24/10
Lab Sample ID: F71678-18	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 54.1
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.42 I	0.46	0.054	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-17	Date Sampled: 02/24/10
Lab Sample ID: F71678-19	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 57.2
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.56	0.36	0.042	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-18	Date Sampled: 02/24/10
Lab Sample ID: F71678-20	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 56.4
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.45	0.44	0.051	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51789

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-19	Date Sampled: 02/24/10
Lab Sample ID: F71678-21	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 55.2
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.40 I	0.51	0.059	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51790

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-20	Date Sampled: 02/24/10
Lab Sample ID: F71678-22	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 88.1
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.087 I	0.59	0.068	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51790

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-20	Date Sampled: 02/24/10
Lab Sample ID: F71678-22	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 88.1
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	88.1			%	1	03/02/10	CP	SM19 2540B M
Total Organic Carbon	17900	1100	570	mg/kg	1	03/16/10 18:31	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-25	Date Sampled: 02/24/10
Lab Sample ID: F71678-23	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 31.6
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	2.1	1.0	0.12	mg/kg	10	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51790

(a) Elevated detection limit due to dilution required for matrix interference. Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-25	Date Sampled: 02/24/10
Lab Sample ID: F71678-23	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 31.6
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	31.6			%	1	03/02/10	CP	SM19 2540B M
Total Organic Carbon	33500	3200	1600	mg/kg	1	03/17/10 11:44	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-26	Date Sampled: 02/24/10
Lab Sample ID: F71678-24	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 34.0
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.7	1.0	0.12	mg/kg	10	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51790

(a) Elevated detection limit due to dilution required for matrix interference. Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-27	Date Sampled: 02/24/10
Lab Sample ID: F71678-25	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 33.4
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.7	0.53	0.062	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51790

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-28	Date Sampled: 02/24/10
Lab Sample ID: F71678-26	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 40.3
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.5	0.95	0.11	mg/kg	10	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51790

(a) Elevated detection limit due to dilution required for matrix interference. Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-29	Date Sampled: 02/24/10
Lab Sample ID: F71678-27	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 44.4
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.7	0.50	0.059	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51790

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-30	Date Sampled: 02/24/10
Lab Sample ID: F71678-28	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 33.0
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.9	1.0	0.12	mg/kg	10	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51790

(a) Elevated detection limit due to dilution required for matrix interference. Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-30	Date Sampled: 02/24/10
Lab Sample ID: F71678-28	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 33.0
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	33			%	1	03/02/10	CP	SM19 2540B M
Total Organic Carbon	24000	3000	1500	mg/kg	1	03/17/10 12:18	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-35	Date Sampled: 02/24/10
Lab Sample ID: F71678-29	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 37.8
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.6	0.98	0.11	mg/kg	10	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51790

(a) Elevated detection limit due to dilution required for matrix interference. Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-35	Date Sampled: 02/24/10
Lab Sample ID: F71678-29	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 37.8
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	37.8			%	1	03/02/10	CP	SM19 2540B M
Total Organic Carbon	20900	2600	1300	mg/kg	1	03/17/10 13:24	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-36	Date Sampled: 02/24/10
Lab Sample ID: F71678-30	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 33.8
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	2.7	0.49	0.057	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51790

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-37	Date Sampled: 02/24/10
Lab Sample ID: F71678-31	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 29.0
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	2.2	0.99	0.12	mg/kg	10	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51790

(a) Elevated detection limit due to dilution required for matrix interference. Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-38	Date Sampled: 02/24/10
Lab Sample ID: F71678-32	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 31.0
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	2.2	0.50	0.058	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51790

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-39	Date Sampled: 02/24/10
Lab Sample ID: F71678-33	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 22.8
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	3.0	1.1	0.13	mg/kg	10	03/10/10	03/15/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23970

(2) Prep QC Batch: N:MP51790

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis). Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-11	Date Sampled: 02/25/10
Lab Sample ID: F71678-34	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 31.2
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	2.2	0.50	0.058	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51790

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-12	Date Sampled: 02/25/10
Lab Sample ID: F71678-35	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 43.6
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.5	0.49	0.057	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51790

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-13	Date Sampled: 02/25/10
Lab Sample ID: F71678-36	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 39.3
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.6	0.53	0.062	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51790

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-14	Date Sampled: 02/25/10
Lab Sample ID: F71678-37	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 31.8
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	2.6	0.53	0.062	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51790

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-21	Date Sampled: 02/25/10
Lab Sample ID: F71678-38	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 33.2
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.9	0.49	0.058	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51790

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-22	Date Sampled: 02/25/10
Lab Sample ID: F71678-39	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 35.8
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.8	0.50	0.059	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51790

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-23		Date Sampled: 02/25/10
Lab Sample ID: F71678-40		Date Received: 02/27/10
Matrix: SO - Soil		Percent Solids: 30.5
Project: C-11 Speciation Sampling, Broward Co, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	2.3	0.53	0.061	mg/kg	5	03/10/10	03/10/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23956

(2) Prep QC Batch: N:MP51790

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-24	Date Sampled: 02/25/10
Lab Sample ID: F71678-41	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 29.1
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.7 I	2.3	0.27	mg/kg	20	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51801

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis). Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-32	Date Sampled: 02/25/10
Lab Sample ID: F71678-42	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 44.9
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	3.2	0.56	0.066	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51801

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-31	Date Sampled: 02/25/10
Lab Sample ID: F71678-43	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 43.9
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	3.1	0.58	0.067	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51801

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-33	Date Sampled: 02/25/10
Lab Sample ID: F71678-44	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 44.2
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	3.8	1.1	0.13	mg/kg	10	03/11/10	03/15/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23970

(2) Prep QC Batch: N:MP51801

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis). Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-34	Date Sampled: 02/25/10
Lab Sample ID: F71678-45	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 45.1
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	3.2	0.56	0.065	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51801

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-40	Date Sampled: 02/25/10
Lab Sample ID: F71678-46	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 41.2
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	2.3	0.48	0.056	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51801

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-40	Date Sampled: 02/25/10
Lab Sample ID: F71678-46	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 41.2
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	41.2			%	1	03/02/10	CP	SM19 2540B M
Total Organic Carbon	39300	2400	1200	mg/kg	1	03/17/10 14:07	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-41	Date Sampled: 02/25/10
Lab Sample ID: F71678-47	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 45.1
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	3.0	0.55	0.064	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51801

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-42	Date Sampled: 02/25/10
Lab Sample ID: F71678-48	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 44.9
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	2.7	0.57	0.067	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51801

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-42	Date Sampled: 02/25/10
Lab Sample ID: F71678-48	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 44.9
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	44.9			%	1	03/02/10	CP	SM19 2540B M
Total Organic Carbon	33400	2200	1100	mg/kg	1	03/17/10 14:37	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-1	Date Sampled: 02/19/10
Lab Sample ID: F71678-49	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 31.3
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	3.7	1.1	0.13	mg/kg	10	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51801

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis). Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-1	Date Sampled: 02/19/10
Lab Sample ID: F71678-49	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 31.3
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	31.3			%	1	03/02/10	CP	SM19 2540B M
Total Organic Carbon	28200	3200	1600	mg/kg	1	03/17/10 14:57	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-2	Date Sampled: 02/19/10
Lab Sample ID: F71678-50	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 26.3
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	3.8	1.0	0.12	mg/kg	10	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51801

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis). Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-3	Date Sampled: 02/19/10
Lab Sample ID: F71678-51	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 24.7
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	4.3	1.0	0.12	mg/kg	10	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51801

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis). Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-4	Date Sampled: 02/19/10
Lab Sample ID: F71678-52	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 23.9
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	4.4	1.1	0.12	mg/kg	10	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51801

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis). Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-5	Date Sampled: 02/19/10
Lab Sample ID: F71678-53	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 31.3
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	4.0	1.1	0.12	mg/kg	10	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51801

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis). Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-5	Date Sampled: 02/19/10
Lab Sample ID: F71678-53	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 31.3
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	31.3			%	1	03/02/10	CP	SM19 2540B M
Total Organic Carbon	26000	3200	1600	mg/kg	1	03/17/10 15:16	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-6	Date Sampled: 02/19/10
Lab Sample ID: F71678-54	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 29.0
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	4.5	1.1	0.13	mg/kg	10	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51801

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis). Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-7	Date Sampled: 02/25/10
Lab Sample ID: F71678-55	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 33.2
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	3.4	1.0	0.12	mg/kg	10	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51801

(a) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis). Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-43	Date Sampled: 02/25/10
Lab Sample ID: F71678-56	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 52.7
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	2.8	0.48	0.056	mg/kg	5	03/11/10	03/15/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23970

(2) Prep QC Batch: N:MP51801

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-44	Date Sampled: 02/25/10
Lab Sample ID: F71678-57	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 45.1
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	3.5	0.57	0.066	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51801

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-44	Date Sampled: 02/25/10
Lab Sample ID: F71678-57	Date Received: 02/27/10
Matrix: SO - Soil	Percent Solids: 45.1
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	45.1			%	1	03/02/10	CP	SM19 2540B M
Total Organic Carbon	32600	2200	1100	mg/kg	1	03/17/10 15:39	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Accutest Laboratories Southeast Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811 TEL. 407-425-6700 • FAX: 407-425-0707 www.accutest.com

Accutest JOB #

PAGE 2 OF 4

Accutest Quote #

F71678

Client / Reporting Information, Project Information, Analytical Information, Matrix Codes, Company Name ECT, Project Name C9 & C11, Address 115 27, City BROWARD CO, State FL, Project # 10-0090, Phone # 954-771-0444, Fax # 954-771-8118

Table with columns: Accutest Sample #, Field ID / Point of Collection, DATE, TIME, SAMPLED BY, MATRIX, TOTAL # OF BOTTLES, and various analytical parameters like NO3, NH3, PO4, etc. Includes handwritten entries for samples 13 through 24.

TURNAROUND TIME (Business Days), Data Deliverable Information, Comments / Remarks. Includes checkboxes for 10 Days Standard, 7 Day RUSH, etc., and options for COMMERCIAL 'A' or 'B' results.

Relinquished by Sampler, Date Time, Received By, Date Time, Relinquished by, Date Time, Received By. Includes handwritten signatures and dates like 2/26/10 and 2/27/10.

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2-0

31 3



Accutest Laboratories Southeast Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL. 407-425-6700 • FAX: 407-425-0707

Accutest JOB #

PAGE 3 OF 4

Accutest Quote #

F71678

Client / Reporting Information			Project Information					Analytical Information										Matrix Codes																						
Company Name ECT			Project Name C97C11					<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px;">DW - Drinking Water</td><td></td></tr> <tr> <td>GW - Ground Water</td><td></td></tr> <tr> <td>WW - Wastewater</td><td></td></tr> <tr> <td>SW - Surface Water</td><td></td></tr> <tr> <td>SO - Soil</td><td></td></tr> <tr> <td>SL - Sludge</td><td></td></tr> <tr> <td>OL - Oil</td><td></td></tr> <tr> <td>LIO - Other Liquid</td><td></td></tr> <tr> <td>AIR - Air</td><td></td></tr> <tr> <td>SOL - Other Solid</td><td></td></tr> <tr> <td>WP - Wipe</td><td></td></tr> </table>										DW - Drinking Water		GW - Ground Water		WW - Wastewater		SW - Surface Water		SO - Soil		SL - Sludge		OL - Oil		LIO - Other Liquid		AIR - Air		SOL - Other Solid		WP - Wipe		<p style="font-size: 1.5em; margin: 0;">SC</p> <p style="font-size: 1.5em; margin: 0;">DA</p> <p style="font-size: 1.5em; margin: 0;">TSC</p>
DW - Drinking Water																																								
GW - Ground Water																																								
WW - Wastewater																																								
SW - Surface Water																																								
SO - Soil																																								
SL - Sludge																																								
OL - Oil																																								
LIO - Other Liquid																																								
AIR - Air																																								
SOL - Other Solid																																								
WP - Wipe																																								
Address			Street US 27																																					
City Fort Lauderdale State FL Zip			City BROWARD CO State FL																																					
Project Contact Barry Westmark Email			Project # 10-0096																																					
Phone # 954-771-0444			Fax # 954-771-8118																																					
Sampler(s) Name(s) CAR + MCD			Client Purchase Order #																																					
CONTAINER INFORMATION																																								
Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	PHONE	MCL	PHOS	PHOS4	NACH-ZINC	IN WATER	MESH	LAB USE ONLY																									
25	CSS-C9-27	}	2/24/16	}	SD	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																								
26	CSS-C9-28																																							
27	CSS-C9-29																																							
28	CSS-C9-30																																							
29	CSS-C9-35																																							
30	CSS-C9-36																																							
31	CSS-C9-37																																							
32	CSS-C9-38																																							
33	CSS-C9-39																																							
34	CSS-C9-11																																							
35	CSS-C9-12	}	2/25	}	SD	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																								
36	CSS-C9-13																2/25	SD	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓											
TURNAROUND TIME (Business Days)				Data Deliverable Information							Comments / Remarks																													
<input checked="" type="checkbox"/> 10 Days Standard <input type="checkbox"/> 7 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> OTHER				<input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input type="checkbox"/> FULT1 (EPA LEVEL 4) <input type="checkbox"/> EDD'S							Approved By: _____ Rush Code: _____ _____ _____ _____																													
Relinquished by: [Signature] Date/Time: 2/26 15:00 Received By: [Signature] Date/Time: 2/26 15:00 Relinquished by: _____ Date/Time: _____ Received By: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Received By: [Signature] Date/Time: 2-27-16 08:00																																								
Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: _____ Cooler Temperature (s) Celsius: 2.0																																								

F71678: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F71678 CLIENT: ECT PROJECT: C9 + C11
 DATE/TIME RECEIVED: 02-27-10 08:00 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
 AIRBILL NUMBERS: _____

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET
- WET ICE PRESENT

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? _____
 NUMBER OF 5035 FIELD KITS ? 0
 NUMBER OR LAB FILTERED METALS ? 0

TEMPERATURE INFORMATION

- IR THERM ID 3 CORR. FACTOR 0
- OBSERVED TEMPS: 20
- CORRECTED TEMPS: 20

SAMPLE INFORMATION

- SAMPLE LABELS PRESENT ON ALL BOTTLES
- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- % SOLIDS JAR NOT RECEIVED
- 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: Samp #5 only received 1 jar Sr, Ba no TOC, Samp #11 received 1 jar TOC
not on coc, Samples 14-57 have no time/date on coc w label, Samp 1-13 time on labels
14:25, 1445, 1405, 1345, 1102, 905, 1132, 1235, 1157, 935, 1005, 1020, 1215, received 9
jars not on coc see back for jar info ->, Samp 34-36 1 jar received

TECHNICIAN SIGNATURE/DATE E.T. 02-27-10 REVIEWER SIGNATURE/DATE [Signature] 2/27/10

NF 10/09

RECEIPT CONFIRMATION 100609 (2).xls

31
3

<u>Sample #</u>	<u>ID</u>	<u>Analysis</u>
49	CSS-C9-1	Se, TOC (2 jars)
50	CSS-C9-2	Se (1 jar)
51	CSS-C9-3	Se (1 jar)
52	CSS-C9-4	Se (1 jar)
53	CSS-C9-5	Se, TOC (2 jars)
54	CSS-C9-6	Se (1 jar)
55	CSS-C9-7	Se (1 jar)
56	CSS-C9-43	Se (1 jar)
57	CSS-C9-44	Se (1 jar)



Accutest Laboratories Southeast

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

Accutest JOB # **F71678** PAGE **1** OF **4**

Accutest Quote # SKIFF#

Client / Reporting Information			Project Information												Analytical Information								Matrix Codes				
Company Name: ECT			Project Name: 09 # C-11																				DW - Drinking Water GW - Ground Water WW - Wastewater SW - Surface Water SO - Soil SL - Sludge LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe				
Address: 300 NE 1st Ave #100			Street: US 27																								
City: Lauderdale State: FL ZIP: 33334			City: BROWARD State: FL																								
Project Contact: PAUL WESTMARK Phone: 954-771-0444			Project #: 10-0096 Fax #: 954-771-2112																								
Sample Name(s) (Printed): CRAC			Client Purchase Order #																								
Accutest Sample #	Field ID / Point of Collection		COLLECTION				CONTAINER USE / ANALYSIS																LAB USE ONLY				
	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	DO	DOE	DOE2	DOE3	DOE4	DOE5	DOE6	DOE7	DOE8	DOE9	DOE10	DOE11	DOE12	DOE13	DOE14	DOE15		DOE16	DOE17	DOE18	
	CSS-C11-18		2/23/10	1425		50	1																				
	CSS-C11-19			1445		1	1																				
	CSS-C11-20			1405		2	2																				
	CSS-C11-21			1345		1	1																				
	CSS-C11-25			1102		2	2																				
	CSS-C11-26			905		1	1																				
	CSS-C11-27			1132		1	1																				
	CSS-C11-28			1235		1	1																				
	CSS-C11-29			1155		1	1																				
	CSS-C11-30			925		2	2																				
	CSS-C11-31			1605		1	1																				
	CSS-C11-33		2/23/10	1020		50	1																				
TURNAROUND TIME (Business Days)			Data Deliverable Information												Comments / Remarks												
<input checked="" type="checkbox"/> 10 Days Standard <input type="checkbox"/> 7 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> OTHER			<input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input type="checkbox"/> FULT1 (EPA LEVEL 4) <input type="checkbox"/> EDD'S																								
Approved By: / Rush Code																											
Emergency or Rush T/A Data Available VIA Email or Lablink																											
Sample Custody must be documented below each time sample changes possession, including courier delivery.																											
Relinquished by: [Signature] Date Time: 2/23/10 15:00			Received by: [Signature] Date Time: 2/23/10 15:00			Relinquished by: [Signature] Date Time: 2/23/10 15:00			Received by: [Signature] Date Time: 2/23/10 15:00			Relinquished by: [Signature] Date Time: 2/23/10 15:00			Received by: [Signature] Date Time: 2/23/10 15:00			Relinquished by: [Signature] Date Time: 2/23/10 15:00			Received by: [Signature] Date Time: 2/23/10 15:00						
Relinquished by: [Signature] Date Time: 2/23/10 15:00			Received by: [Signature] Date Time: 2/23/10 15:00			Relinquished by: [Signature] Date Time: 2/23/10 15:00			Received by: [Signature] Date Time: 2/23/10 15:00			Relinquished by: [Signature] Date Time: 2/23/10 15:00			Received by: [Signature] Date Time: 2/23/10 15:00			Relinquished by: [Signature] Date Time: 2/23/10 15:00			Received by: [Signature] Date Time: 2/23/10 15:00						
Relinquished by: [Signature] Date Time: 2/23/10 15:00			Received by: [Signature] Date Time: 2/23/10 15:00			Relinquished by: [Signature] Date Time: 2/23/10 15:00			Received by: [Signature] Date Time: 2/23/10 15:00			Relinquished by: [Signature] Date Time: 2/23/10 15:00			Received by: [Signature] Date Time: 2/23/10 15:00			Relinquished by: [Signature] Date Time: 2/23/10 15:00			Received by: [Signature] Date Time: 2/23/10 15:00						
Relinquished by: [Signature] Date Time: 2/23/10 15:00			Received by: [Signature] Date Time: 2/23/10 15:00			Relinquished by: [Signature] Date Time: 2/23/10 15:00			Received by: [Signature] Date Time: 2/23/10 15:00			Relinquished by: [Signature] Date Time: 2/23/10 15:00			Received by: [Signature] Date Time: 2/23/10 15:00			Relinquished by: [Signature] Date Time: 2/23/10 15:00			Received by: [Signature] Date Time: 2/23/10 15:00						
Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (at Collection):																											

31
3

F71678: Chain of Custody
Page 7 of 14



Accutest Laboratories Southeast

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

Accutest JOB #

PAGE 2 OF 4

Accutest Quote #

SKIFF#

Client / Reporting Information		Project Information												Analytical Information				Matrix Codes						
Company Name: ECT		Project Name: C9 9 C11																DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge CL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe						
Address		Street: 115 27																						
City: Land O Lakes State: FL Zip:		City: BROWARD CO State: FL																						
Project Contact: Wesley West-Moore		Project #: 10-0096																						
Phone: 954-771-0444		Fax #: 954-771-8118																						
Sampler(s) Name: MCA		Client Purchase Order #																						
Accutest Sample #	Field ID / Point of Collection	COLLECTION		CONTAMINANT INFORMATION																				
		DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NOISE	PH	PCB	LEAD	COBALT	CHLORIDE	COBALT	CHLORIDE	COBALT	CHLORIDE	COBALT	CHLORIDE	COBALT	CHLORIDE	COBALT	CHLORIDE	
	CSS-C11-34	7/23	1215	SS		1	✓																	
	CSS-C9-8	7/24	709			1	✓																	
	CSS-C9-9		738			1	✓																	
	CSS-C9-10		752			2	✓																	
	CSS-C9-15		814			2	✓																	
	CSS-C9-16		832			1	✓																	
	CSS-C9-17		917			1	✓																	
	CSS-C9-18		952			1	✓																	
	CSS-C9-19		1019			1	✓																	
	CSS-C9-20		1046			2	✓																	
	CSS-C9-25		1115			2	✓																	
	CSS-C9-26	7/24	1139			50	1	✓																
TURNAROUND TIME (Business Days)		Date Deliverable Information												Comments / Remarks										
<input checked="" type="checkbox"/> 10 Days Standard <input type="checkbox"/> 7 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> OTHER		Approved By: / Rush Code		<input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input type="checkbox"/> FULT1 (EPA LEVEL 4) <input type="checkbox"/> EDD'S																				
Emergency or Rush T/A Data Available VIA Email or Lablink																								
Sample Custody must be documented below each time samples change possession, including courier delivery.																								
Relinquished by Sampler: Wesley West-Moore	Date/Time: 7/24/10	Received By: D. Val.	Date/Time: 7/26/10	Relinquished by:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:		
5		6		7		8		9		10		11		12		13		14		15		16		

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

31
3

F71678: Chain of Custody
Page 8 of 14

Job Change Order: F71678_3/1/2010

Requested Date:	3/1/2010	Received Date:	2/27/2010
Account Name:	ECT	Due Date:	3/15/2010
Project Description:	C-11 Speciation Sampling, Broward Co, FL	Deliverable:	COMMB
CSR:	SB	TAT (Days):	14

Sample #: F71678-5 **Change:** Per Crystal @ ECT via e-mail 03.01.10, run SEMS, BAMS and TOC on this sample, despite what bottles we received.

CSS-C11-25

Sample #: F71678-11 **Change:** Per Crystal @ ECT via e-mail 03.01.10, run SEMS and BAMS on this sample, despite what bottles we received.

CSS-C11-31

Sample #: F71678-49-55 **Change:** NO coc received with samples. COC received from Crystal @ ECT via e-mail 03.01.10.

Sample #: F71678-49 **Change:** Per Crystal @ ECT via e-mail 03.01.10, run SEMS and TOC on this sample.

CSS-C9-1

Sample #: F71678-50 **Change:** Per Crystal @ ECT via e-mail 03.01.10, run SEMS on this sample.

CSS-C9-2

Sample #: F71678-51 **Change:** Per Crystal @ ECT via e-mail 03.01.10, run SEMS on this sample.

CSS-C9-3

Above Changes Crystal @ ECT **Date:** 3/1/2010

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Job Change Order: F71678_3/1/2010

Requested Date:	3/1/2010	Received Date:	2/27/2010
Account Name:	ECT	Due Date:	3/15/2010
Project Description:	C-11 Speciation Sampling, Broward Co, FL	Deliverable:	COMMB
CSR:	SB	TAT (Days):	14

Sample #: F71678-52 **Change:** Per Crystal @ ECT via e-mail 03.01.10, run SEMS on this sample.

CSS-C9-4

Sample #: F71678-53 **Change:** Per Crystal @ ECT via e-mail 03.01.10, run SEMS and TOC on this sample.

CSS-C9-5

Sample #: F71678-54 **Change:** Per Crystal @ ECT via e-mail 03.01.10, run SEMS on this sample.

CSS-C9-6

Sample #: F71678-55 **Change:** Per Crystal @ ECT via e-mail 03.01.10, run SEMS on this sample.

CSS-C9-7

Sample #: F71678-56 **Change:** Per Crystal @ ECT via e-mail 03.01.10, run SEMS on this sample.

CSS-C9-43

Sample #: F71678-57 **Change:** Per Crystal @ ECT via e-mail 03.01.10, run SEMS and TOC on this sample.

CSS-C9-44

Above Changes Crystal @ ECT **Date:** 3/1/2010

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

F71678: Chain of Custody
Page 13 of 14

Job Change Order: F71678_3/1/2010

Requested Date:	3/1/2010	Received Date:	2/27/2010
Account Name:	ECT	Due Date:	3/15/2010
Project Description:	C-11 Speciation Sampling, Broward Co, FL	Deliverable:	COMMB
CSR:	SB	TAT (Days):	14

Sample #: F71678-56 **Change:** No coc received with this sample. COC requested from client.

CSS-C9-43

Sample #: F71678-57 **Change:** No coc received with this sample. COC requested from client.

CSS-C9-44

Sample #: F71678-1-13 **Change:** No sample collection times on coc. Collections times logged in per the sample labels.

Sample #: F71678-1-13 **Change:** Revised coc with sample collections times submitted. All sample collections times on revised coc matched bottles, except as noted below.

Sample #: F71678-9 **Change:** Collection time on bottle was 1157, revised coc is 1155. Sample logged in per revised coc.

CSS-C11-29

Sample #: F71678-14-48 **Change:** No sample collection times on coc or sample bottle labels. A revised coc was submitted from Crystal @ ECT via e-mail 03.01.10, with collection times.

Above Changes Crystal @ ECT

Date: 3/1/2010

F71678: Chain of Custody

Page 14 of 14

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 3 of 3



General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F71678
Account: ECTFLLAU - ECT
Project: C-11 Speciation Sampling, Broward Co, FL

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Total Organic Carbon	GP14492/GN38879	1000	0.0	mg/kg	20000	21300	106.5	88-114%
Total Organic Carbon	GP14493/GN38879	1000	0.0	mg/kg	20000	21100	105.5	88-114%
Total Organic Carbon	GP14503/GN38908	1000	0.0	mg/kg	20000	21300	106.5	88-114%

Associated Samples:

Batch GP14492: F71678-10, F71678-16, F71678-3, F71678-5

Batch GP14493: F71678-17, F71678-22

Batch GP14503: F71678-23, F71678-28, F71678-29, F71678-46, F71678-48, F71678-49, F71678-53, F71678-57

(*) Outside of QC limits

4.1
4

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F71678
Account: ECTFLLAU - ECT
Project: C-11 Speciation Sampling, Broward Co, FL

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Percent	GN38643	F71678-1	%	40.7	46.3	12.9*	0-10%
Solids, Percent	GN38644	F71678-3	%	83.1	22.3	115.4*	0-10%
Solids, Percent	GN38645	F71678-23	%	31.6	34.7	9.4	0-10%
Solids, Percent	GN38648	F71678-43	%	43.9	46.8	6.4	0-10%
Total Organic Carbon	GP14492/GN38879	F71796-5	mg/kg	33000	26600	21.5	0-36%
Total Organic Carbon	GP14493/GN38879	F71678-17	mg/kg	12100	11600	4.2	0-36%
Total Organic Carbon	GP14503/GN38908	F71678-23	mg/kg	33500	26400	23.7	0-36%

Associated Samples:

Batch GN38643: F71678-1, F71678-2
 Batch GN38644: F71678-10, F71678-11, F71678-12, F71678-13, F71678-14, F71678-15, F71678-16, F71678-17, F71678-18, F71678-19, F71678-20, F71678-21, F71678-22, F71678-3, F71678-4, F71678-5, F71678-6, F71678-7, F71678-8, F71678-9
 Batch GN38645: F71678-23, F71678-24, F71678-25, F71678-26, F71678-27, F71678-28, F71678-29, F71678-30, F71678-31, F71678-32, F71678-33, F71678-34, F71678-35, F71678-36, F71678-37, F71678-38, F71678-39, F71678-40, F71678-41, F71678-42
 Batch GN38648: F71678-43, F71678-44, F71678-45, F71678-46, F71678-47, F71678-48, F71678-49, F71678-50, F71678-51, F71678-52, F71678-53, F71678-54, F71678-55, F71678-56, F71678-57
 Batch GP14492: F71678-10, F71678-16, F71678-3, F71678-5
 Batch GP14493: F71678-17, F71678-22
 Batch GP14503: F71678-23, F71678-28, F71678-29, F71678-46, F71678-48, F71678-49, F71678-53, F71678-57
 (*) Outside of QC limits

4.2
4

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F71678
Account: ECTFLLAU - ECT
Project: C-11 Speciation Sampling, Broward Co, FL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Total Organic Carbon	GP14492/GN38879	F71796-5	mg/kg	33000	55200	75500	76.9N(a)	88-114%
Total Organic Carbon	GP14493/GN38879	F71678-17	mg/kg	12100	37500	48900	98.3	88-114%
Total Organic Carbon	GP14503/GN38908	F71678-23	mg/kg	33500	63300	91600	91.8	88-114%

Associated Samples:

Batch GP14492: F71678-10, F71678-16, F71678-3, F71678-5

Batch GP14493: F71678-17, F71678-22

Batch GP14503: F71678-23, F71678-28, F71678-29, F71678-46, F71678-48, F71678-49, F71678-53, F71678-57

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

4.3
4



Misc. Forms

5

Custody Documents and Other Forms

(Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody



Accutest Southeast Subcontract Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

Client / Reporting Information Project Information Analytical Information Matrix Codes

Company Name: Accutest Laboratories Southeast
Address: 4405 Vineland Road Suite C-15
City: Orlando State: FL Zip: 32811
Project Contact: Email: Phone#: 407-425-6700 Fax #: 407-425-0707
Lab Technician Printed Name:

Accutest Job Number: **F71678**
Street:
City:
Project #:
Fax #:
Client Purch:

Analytical Information: BAMS, SEMS

- DW - Drinking Water
- GW - Ground Water
- SW - Surface Water
- SO - Soil
- S - Sudge
- O - Oil
- LIQ - Other Liquid
- AIR - Air
- SOL - Other Solid

Lab ID #	Client ID / Accutest Sample ID	COLLECTION		SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION														
		DATE	TIME				OTHER	MOBE	FOI	INCH	INCH	INCH	INCH	INCH	INCH	INCH	INCH	INCH	INCH		
	F71678-13	02-23	12:45		SO	1			X												X
	-14	02-24	07:04																		X
	-15		07:38																		
	-16		07:52																		
	-17		08:14																		
	-18		08:22																		
	-19		09:17																		
	-20		09:52																		
	-21		10:19																		
	-22		10:46																		
	-23		11:15																		
	-24		11:39																		

TURNAROUND TIME (Business Days) Data Deliverable Information Comments / Remarks

Approved By: *[Signature]*
Standard 10 Business Days
7 Day RUSH
5 Day RUSH
3 Day EMERGENCY
2 Day EMERGENCY
1 Day EMERGENCY
OTHER
DUE: 03-15-10

- COMMERCIAL "A" (RESULTS ONLY)
- COMMERCIAL "B" (RESULTS PLUS QC)
- REDT1 (EPA LEVEL 3)
- FULLT1 (EPA LEVEL 4)
- EDD'S

Ship to Laboratory-
Approved By- *Murad Mohammed*

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Lab Technician: 1 <i>[Signature]</i>	Date Time: 03-02-10 12:00	Received By/Affiliation: 2 <i>[Signature]</i>	Relinquished by/Affiliation: 3 <i>[Signature]</i>	Date Time: 3-3-10 9:46	Received By/Affiliation: 4 <i>[Signature]</i>
Relinquished by/Affiliation: 5	Date Time:	Received By/Affiliation: 6	Relinquished by/Affiliation: 7	Date Time:	Received By/Affiliation: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:





Accutest Southeast Subcontract Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL. 407-425-6700 • FAX: 407-425-0707

Client / Reporting Information		Project Information		Analytical Information				Matrix Codes	
Company Name: Accutest Laboratories Southeast		Accutest Job Number: F71678						DW - Drinking Water GW - Ground Water WW - Wastewater SW - Surface Water SO - Soil SL - Sludge OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid	
Address: 4405 Vineland Road Suite C-15		Street							
City: Orlando State: FL Zip: 32811		City							
Project Contact: E-mail		Project #							
Phone#: 407-425-6700 Fax #: 407-425-0707		Fax #							
Lab Technician Printed Name:		Client Purchase Order							

Lab ID #	Client ID / Accutest Sample ID	COLLECTION		SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION												SEMS	LAB USE ONLY
		DATE	TIME				OTHER	PHONE	HCl	NaOH	HNO3	H2SO4	NaOH/DMC	DISTILLED WATER	Other					
	F71678-37	02-25	0846		SO	1		X									X			
	-38		0934																	
	-39		0917																	
	-40		0956																	
	-41		1019																	
	-42		1048																	
	-43		1118																	
	-44		1219																	
	-45		1240																	
	-46		1310																	
	-47		1345																	
	-48		1418																	

TURNAROUND TIME (Business Days)		Data Deliverable Information		Comments / Remarks	
Standard 10 Business Days 7 Day RUSH 5 Day RUSH 3 Day EMERGENCY 2 Day EMERGENCY 1 Day EMERGENCY OTHER		Approved By: <u>Due</u> <u>03-15-10</u>		<input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input checked="" type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input type="checkbox"/> FULLT1 (EPA LEVEL 4) <input type="checkbox"/> EDD'S	
Ship to Laboratory - AINT Approved By: <u>Munam</u>					

Sample Custody must be documented below each time samples change possession, including courier delivery.					
Relinquished by Lab Technician:	Date Time:	Received By/Affiliation:	Relinquished by Affiliation:	Date Time:	Received By/Affiliation:
<u>[Signature]</u>	03-12-10 17:20	<u>[Signature]</u>	<u>[Signature]</u>	3-3-10 9:45	<u>[Signature]</u>
Relinquished by Affiliation:	Date Time:	Received By/Affiliation:	Relinquished by Affiliation:	Date Time:	Received By/Affiliation:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

5.1
5



Metals Analysis

QC Data Summaries

(Accutest New Jersey)

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F71678
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51789
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 03/10/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	25	.34	.52		
Antimony	0.25	.019	.022		
Arsenic	0.50	.074	.11		
Barium	0.50	.013	.038	0.038	<0.50
Beryllium	0.25	.007	.03		
Boron	2.5	.29	.25		
Cadmium	0.25	.011	.016		
Calcium	130	3	3.1		
Chromium	2.0	.038	.29		
Cobalt	0.25	.0015	.016		
Copper	2.0	.13	.036		
Iron	25	.68	1.9		
Lead	0.25	.003	.012		
Magnesium	130	.27	1.4		
Manganese	0.25	.006	.02		
Molybdenum	0.50	.024	.096		
Nickel	2.0	.095	.026		
Potassium	130	1.4	3.9		
Selenium	0.50	.039	.058	-0.027	<0.50
Silver	1.0	.01	.022		
Sodium	130	.56	1.3		
Strontium	0.50	.004	.0082		
Thallium	0.25	.002	.0051		
Tin	0.50	.025			
Titanium	0.50	.027	.27		
Uranium	0.50				
Vanadium	2.0	.27	.79		
Zinc	2.0	.39	.91		

Associated samples MP51789: F71678-1, F71678-2, F71678-3, F71678-4, F71678-5, F71678-6, F71678-7, F71678-8, F71678-9, F71678-10, F71678-11, F71678-12, F71678-13, F71678-14, F71678-15, F71678-16, F71678-17, F71678-18, F71678-19, F71678-20

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F71678
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51789
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/10/10

Metal	F71678-15		SpikeLot		QC
	Original	MS	MPIRS1	% Rec	Limits
Aluminum					
Antimony					
Arsenic					
Barium	5.3	444	463	94.7	75-125
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium	0.0	476	463	102.7	69-125
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP51789: F71678-1, F71678-2, F71678-3, F71678-4, F71678-5, F71678-6, F71678-7, F71678-8, F71678-9, F71678-10, F71678-11, F71678-12, F71678-13, F71678-14, F71678-15, F71678-16, F71678-17, F71678-18, F71678-19, F71678-20

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F71678
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51789
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/10/10

Metal	F71678-15 Original MSD		SpikeLot MPIRS1 % Rec		MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium	5.3	424	454	92.2	4.6	20
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	0.0	458	454	100.9	3.9	20
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP51789: F71678-1, F71678-2, F71678-3, F71678-4, F71678-5, F71678-6, F71678-7, F71678-8, F71678-9, F71678-10, F71678-11, F71678-12, F71678-13, F71678-14, F71678-15, F71678-16, F71678-17, F71678-18, F71678-19, F71678-20

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F71678

Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51789
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/10/10

Metal	BSP Result	Spikelot MPIRS1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium	393	400	98.3	80-120
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	420	400	105.0	80-120
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP51789: F71678-1, F71678-2, F71678-3, F71678-4, F71678-5, F71678-6, F71678-7, F71678-8, F71678-9, F71678-10, F71678-11, F71678-12, F71678-13, F71678-14, F71678-15, F71678-16, F71678-17, F71678-18, F71678-19, F71678-20

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F71678
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51789
 Matrix Type: SOLID

Methods: SW846 6020
 Units: ug/l

Prep Date: 03/10/10

Metal	F71678-15		QC
	Original	SDL 5:25 %DIF	Limits

Aluminum			
Antimony			
Arsenic			
Barium	45.5	53.9	18.5*(a) 0-10
Beryllium			
Boron			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead			
Magnesium			
Manganese			
Molybdenum			
Nickel			
Potassium			
Selenium	0.00	4.63	0-10
Silver			
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Uranium			
Vanadium			
Zinc			

Associated samples MP51789: F71678-1, F71678-2, F71678-3, F71678-4, F71678-5, F71678-6, F71678-7, F71678-8, F71678-9, F71678-10, F71678-11, F71678-12, F71678-13, F71678-14, F71678-15, F71678-16, F71678-17, F71678-18, F71678-19, F71678-20

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested
 (a) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F71678
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51790
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 03/10/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	25	.34	.52		
Antimony	0.25	.019	.022		
Arsenic	0.50	.074	.11		
Barium	0.50	.013	.038		
Beryllium	0.25	.007	.03		
Boron	2.5	.29	.25		
Cadmium	0.25	.011	.016		
Calcium	130	3	3.1		
Chromium	2.0	.038	.29		
Cobalt	0.25	.0015	.016		
Copper	2.0	.13	.036		
Iron	25	.68	1.9		
Lead	0.25	.003	.012		
Magnesium	130	.27	1.4		
Manganese	0.25	.006	.02		
Molybdenum	0.50	.024	.096		
Nickel	2.0	.095	.026		
Potassium	130	1.4	3.9		
Selenium	0.50	.039	.058	-0.044	<0.50
Silver	1.0	.01	.022		
Sodium	130	.56	1.3		
Strontium	0.50	.004	.0082		
Thallium	0.25	.002	.0051		
Tin	0.50	.025			
Titanium	0.50	.027	.27		
Uranium	0.50				
Vanadium	2.0	.27	.79		
Zinc	2.0	.39	.91		

Associated samples MP51790: F71678-21, F71678-22, F71678-23, F71678-24, F71678-25, F71678-26, F71678-27, F71678-28, F71678-29, F71678-30, F71678-31, F71678-32, F71678-33, F71678-34, F71678-35, F71678-36, F71678-37, F71678-38, F71678-39, F71678-40

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F71678
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51790
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/10/10

Metal	F71678-22 Original MS	SpikeLot MPIRS1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	0.087 480	478	100.4	69-125
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP51790: F71678-21, F71678-22, F71678-23, F71678-24, F71678-25, F71678-26, F71678-27, F71678-28, F71678-29, F71678-30, F71678-31, F71678-32, F71678-33, F71678-34, F71678-35, F71678-36, F71678-37, F71678-38, F71678-39, F71678-40

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F71678
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51790
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/10/10

Metal	F71678-22 Original MSD		SpikeLot MPIRS1 % Rec		MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	0.087	453	454	99.8	5.8	20
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP51790: F71678-21, F71678-22, F71678-23, F71678-24, F71678-25, F71678-26, F71678-27, F71678-28, F71678-29, F71678-30, F71678-31, F71678-32, F71678-33, F71678-34, F71678-35, F71678-36, F71678-37, F71678-38, F71678-39, F71678-40

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F71678
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51790
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/10/10

Metal	BSP Result	Spikelot MPIRS1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	394	400	98.5	80-120
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP51790: F71678-21, F71678-22, F71678-23, F71678-24, F71678-25, F71678-26, F71678-27, F71678-28, F71678-29, F71678-30, F71678-31, F71678-32, F71678-33, F71678-34, F71678-35, F71678-36, F71678-37, F71678-38, F71678-39, F71678-40

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F71678
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51790
 Matrix Type: SOLID

Methods: SW846 6020
 Units: ug/l

Prep Date: 03/10/10

Metal	F71678-22	QC
	Original SDL 5:25 %DIF	Limits

Aluminum		
Antimony		
Arsenic		
Barium		
Beryllium		
Boron		
Cadmium		
Calcium		
Chromium		
Cobalt		
Copper		
Iron		
Lead		
Magnesium		
Manganese		
Molybdenum		
Nickel		
Potassium		
Selenium	0.743 0.00	100.0(a) 0-10
Silver		
Sodium		
Strontium		
Thallium		
Tin		
Titanium		
Uranium		
Vanadium		
Zinc		

Associated samples MP51790: F71678-21, F71678-22, F71678-23, F71678-24, F71678-25, F71678-26, F71678-27, F71678-28, F71678-29, F71678-30, F71678-31, F71678-32, F71678-33, F71678-34, F71678-35, F71678-36, F71678-37, F71678-38, F71678-39, F71678-40

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F71678
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51801
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 03/11/10 03/11/10

Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	25	.34	.52				
Antimony	0.25	.019	.022				
Arsenic	0.50	.074	.11				
Barium	0.50	.013	.038				
Beryllium	0.25	.007	.03				
Boron	2.5	.29	.25				
Cadmium	0.25	.011	.016				
Calcium	130	3	3.1				
Chromium	2.0	.038	.29				
Cobalt	0.25	.0015	.016				
Copper	2.0	.13	.036				
Iron	25	.68	1.9				
Lead	0.25	.003	.012				
Magnesium	130	.27	1.4				
Manganese	0.25	.006	.02				
Molybdenum	0.50	.024	.096				
Nickel	2.0	.095	.026				
Potassium	130	1.4	3.9				
Selenium	0.50	.039	.058	0.038	<0.50	0.085	<0.50
Silver	1.0	.01	.022				
Sodium	130	.56	1.3				
Strontium	0.50	.004	.0082				
Thallium	0.25	.002	.0051				
Tin	0.50	.025					
Titanium	0.50	.027	.27				
Uranium	0.50						
Vanadium	2.0	.27	.79				
Zinc	2.0	.39	.91				

Associated samples MP51801: F71678-41, F71678-42, F71678-43, F71678-44, F71678-45, F71678-46, F71678-47, F71678-48, F71678-49, F71678-50, F71678-51, F71678-52, F71678-53, F71678-54, F71678-55, F71678-56, F71678-57

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F71678
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51801
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/11/10

Metal	F71678-56 Original MS	SpikeLot MPIRS1	% Rec	QC Limits	
Aluminum					
Antimony					
Arsenic					
Barium	anr				
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium	2.8	362	387	92.8	69-125
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP51801: F71678-41, F71678-42, F71678-43, F71678-44, F71678-45, F71678-46, F71678-47, F71678-48, F71678-49, F71678-50, F71678-51, F71678-52, F71678-53, F71678-54, F71678-55, F71678-56, F71678-57

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F71678
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51801
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/11/10

Metal	F71678-56 Original MSD	SpikeLot MPIRS1	% Rec	MSD RPD	QC Limit	
Aluminum						
Antimony						
Arsenic						
Barium	anr					
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	2.8	370	389	94.3	2.2	20
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP51801: F71678-41, F71678-42, F71678-43, F71678-44, F71678-45, F71678-46, F71678-47, F71678-48, F71678-49, F71678-50, F71678-51, F71678-52, F71678-53, F71678-54, F71678-55, F71678-56, F71678-57

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F71678
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51801
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/11/10 03/11/10

Metal	BSP Result	Spikelot MPIRS1	% Rec	QC Limits	BSP Result	Spikelot MPIRS1	% Rec	QC Limits
Aluminum								
Antimony								
Arsenic								
Barium	anr							
Beryllium								
Boron								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Molybdenum								
Nickel								
Potassium								
Selenium	447	400	111.8	80-120	474	400	118.5	80-120
Silver								
Sodium								
Strontium								
Thallium								
Tin								
Titanium								
Uranium								
Vanadium								
Zinc								

Associated samples MP51801: F71678-41, F71678-42, F71678-43, F71678-44, F71678-45, F71678-46, F71678-47, F71678-48, F71678-49, F71678-50, F71678-51, F71678-52, F71678-53, F71678-54, F71678-55, F71678-56, F71678-57

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F71678
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51801
 Matrix Type: SOLID

Methods: SW846 6020
 Units: ug/l

Prep Date: 03/11/10

Metal	F71678-56 Original SDL 5:25 %DIF	QC Limits
-------	-------------------------------------	--------------

Aluminum		
Antimony		
Arsenic		
Barium	anr	
Beryllium		
Boron		
Cadmium		
Calcium		
Chromium		
Cobalt		
Copper		
Iron		
Lead		
Magnesium		
Manganese		
Molybdenum		
Nickel		
Potassium		
Selenium	28.7 33.1	15.2*(a) 0-10
Silver		
Sodium		
Strontium		
Thallium		
Tin		
Titanium		
Uranium		
Vanadium		
Zinc		

Associated samples MP51801: F71678-41, F71678-42, F71678-43, F71678-44, F71678-45, F71678-46, F71678-47, F71678-48, F71678-49, F71678-50, F71678-51, F71678-52, F71678-53, F71678-54, F71678-55, F71678-56, F71678-57

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested
 (a) Serial dilution indicates possible matrix interference.



Technical Report for

ECT

C9/C11 Selenium; Weston, FL

10-0096

Accutest Job Number: F71708

Sampling Date: 02/26/10

Report to:

ECT


padak@ectinc.com

ATTN: Probas Adak

Total number of pages in report: **45**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Sue Bell 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Test results relate only to samples analyzed.



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Sample Summary

ECT

Job No: F71708

C9/C11 Selenium; Weston, FL
Project No: 10-0096

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F71708-1	02/26/10	11:57 PA	03/02/10	SO	Soil	CSS-C11-2
F71708-2	02/26/10	12:20 PA	03/02/10	SO	Soil	CSS-C11-3
F71708-3	02/26/10	12:42 PA	03/02/10	SO	Soil	CSS-C11-4
F71708-4	02/26/10	13:20 PA	03/02/10	SO	Soil	CSS-C11-5
F71708-5	02/26/10	13:05 PA	03/02/10	SO	Soil	CSS-C11-6
F71708-6	02/26/10	14:05 PA	03/02/10	SO	Soil	CSS-C11-7
F71708-7	02/26/10	11:35 PA	03/02/10	SO	Soil	CSS-C11-8
F71708-8	02/26/10	11:15 PA	03/02/10	SO	Soil	CSS-C11-9
F71708-9	02/26/10	10:42 PA	03/02/10	SO	Soil	CSS-C11-11
F71708-10	02/26/10	09:45 PA	03/02/10	SO	Soil	CSS-C11-13
F71708-11	02/26/10	13:40 PA	03/02/10	SO	Soil	CSS-C11-14
F71708-12	02/26/10	14:55 PA	03/02/10	SO	Soil	CSS-C11-15
F71708-13	02/26/10	09:58 PA	03/02/10	SO	Soil	CSS-C11-16

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

ECT

Job No: F71708

C9/C11 Selenium; Weston, FL
 Project No: 10-0096

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F71708-14	02/26/10	15:30 PA	03/02/10	SO	Soil	CSS-C11-17
F71708-15	02/26/10	15:05 PA	03/02/10	SO	Soil	CSS-C11-22
F71708-16	02/26/10	10:18 PA	03/02/10	SO	Soil	CSS-C11-23
F71708-17	02/26/10	14:30 PA	03/02/10	SO	Soil	CSS-C11-24
F71708-18	02/26/10	14:40 PA	03/02/10	SO	Soil	CSS-C11-32

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: CSS-C11-2	Date Sampled: 02/26/10
Lab Sample ID: F71708-1	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 57.3
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	22.0	0.50	0.038	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	0.95	0.50	0.058	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23949

(2) Prep QC Batch: N:MP51777

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-2	Date Sampled: 02/26/10
Lab Sample ID: F71708-1	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 57.3
Project: C9/C11 Selenium; Weston, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	57.3			%	1	03/02/10	CP	SM19 2540B M
Total Organic Carbon	12800	1700	870	mg/kg	1	03/15/10 17:25	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-3	Date Sampled: 02/26/10
Lab Sample ID: F71708-2	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 49.7
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	24.2	0.50	0.038	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	1.3	0.50	0.058	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23949

(2) Prep QC Batch: N:MP51777

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-4	Date Sampled: 02/26/10
Lab Sample ID: F71708-3	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 31.5
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	55.6	0.50	0.038	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	2.0	0.50	0.059	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23949

(2) Prep QC Batch: N:MP51777

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-5	Date Sampled: 02/26/10
Lab Sample ID: F71708-4	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 42.2
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	34.1	0.50	0.038	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	2.0	0.50	0.059	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23949

(2) Prep QC Batch: N:MP51777

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-5	Date Sampled: 02/26/10
Lab Sample ID: F71708-4	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 42.2
Project: C9/C11 Selenium; Weston, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	42.2			%	1	03/02/10	CP	SM19 2540B M
Total Organic Carbon	21800	2400	1200	mg/kg	1	03/15/10 17:06	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-6	Date Sampled: 02/26/10
Lab Sample ID: F71708-5	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 42.5
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	50.5	0.51	0.039	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	2.4	0.51	0.060	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23949

(2) Prep QC Batch: N:MP51777

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-7	Date Sampled: 02/26/10
Lab Sample ID: F71708-6	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 83.2
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	4.9	0.51	0.039	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	0.12 I	0.51	0.059	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23949

(2) Prep QC Batch: N:MP51777

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-8	Date Sampled: 02/26/10
Lab Sample ID: F71708-7	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 55.1
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	33.0	0.51	0.039	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	0.55	0.51	0.059	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23949

(2) Prep QC Batch: N:MP51777

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-9	Date Sampled: 02/26/10
Lab Sample ID: F71708-8	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 29.9
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	29.2	0.51	0.039	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	0.41 I	0.51	0.059	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23949

(2) Prep QC Batch: N:MP51777

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-11	Date Sampled: 02/26/10
Lab Sample ID: F71708-9	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 44.2
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	36.5	0.51	0.039	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	0.66	0.51	0.059	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23949

(2) Prep QC Batch: N:MP51777

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-13	Date Sampled: 02/26/10
Lab Sample ID: F71708-10	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 20.9
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	64.5	0.51	0.039	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	3.4	0.51	0.060	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23949

(2) Prep QC Batch: N:MP51777

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-14	Date Sampled: 02/26/10
Lab Sample ID: F71708-11	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 42.6
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	19.2	0.50	0.038	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	0.63	0.50	0.058	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23949

(2) Prep QC Batch: N:MP51777

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-15	Date Sampled: 02/26/10
Lab Sample ID: F71708-12	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 81.3
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	10.5	0.51	0.039	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	0.46 I	0.51	0.060	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23949

(2) Prep QC Batch: N:MP51777

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-15	Date Sampled: 02/26/10
Lab Sample ID: F71708-12	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 81.3
Project: C9/C11 Selenium; Weston, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	81.3			%	1	03/02/10	CP	SM19 2540B M
Total Organic Carbon	9620	1200	620	mg/kg	1	03/15/10 16:44	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-16	Date Sampled: 02/26/10
Lab Sample ID: F71708-13	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 63.0
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	18.1	0.51	0.039	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ³
Selenium ^a	0.67	0.51	0.059	mg/kg	5	03/09/10	03/10/10 ANJ	SW846 6020 ²	SW846 3050B ³

(1) Instrument QC Batch: N:MA23949

(2) Instrument QC Batch: N:MA23956

(3) Prep QC Batch: N:MP51777

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-17	Date Sampled: 02/26/10
Lab Sample ID: F71708-14	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 77.4
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	11.0	0.52	0.040	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ³
Selenium ^a	0.33 I	0.52	0.060	mg/kg	5	03/09/10	03/10/10 ANJ	SW846 6020 ²	SW846 3050B ³

(1) Instrument QC Batch: N:MA23949

(2) Instrument QC Batch: N:MA23956

(3) Prep QC Batch: N:MP51777

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-17	Date Sampled: 02/26/10
Lab Sample ID: F71708-14	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 77.4
Project: C9/C11 Selenium; Weston, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	77.4			%	1	03/02/10	CP	SM19 2540B M
Total Organic Carbon	9000	1300	650	mg/kg	1	03/15/10 13:39	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-22	Date Sampled: 02/26/10
Lab Sample ID: F71708-15	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 71.4
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	12.3	0.52	0.040	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ³
Selenium ^a	0.17 I	0.52	0.060	mg/kg	5	03/09/10	03/10/10 ANJ	SW846 6020 ²	SW846 3050B ³

(1) Instrument QC Batch: N:MA23949

(2) Instrument QC Batch: N:MA23956

(3) Prep QC Batch: N:MP51777

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-23	Date Sampled: 02/26/10
Lab Sample ID: F71708-16	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 63.9
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	12.9	0.51	0.039	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ³
Selenium ^a	0.20 I	0.51	0.060	mg/kg	5	03/09/10	03/10/10 ANJ	SW846 6020 ²	SW846 3050B ³

(1) Instrument QC Batch: N:MA23949

(2) Instrument QC Batch: N:MA23956

(3) Prep QC Batch: N:MP51777

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-24	Date Sampled: 02/26/10
Lab Sample ID: F71708-17	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 71.4
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	11.9	0.50	0.039	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ³
Selenium ^a	0.22 I	0.50	0.059	mg/kg	5	03/09/10	03/10/10 ANJ	SW846 6020 ²	SW846 3050B ³

(1) Instrument QC Batch: N:MA23949

(2) Instrument QC Batch: N:MA23956

(3) Prep QC Batch: N:MP51777

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-32	Date Sampled: 02/26/10
Lab Sample ID: F71708-18	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 81.9
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	17.4	0.52	0.040	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	0.16 I	0.52	0.060	mg/kg	5	03/09/10	03/09/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23949

(2) Prep QC Batch: N:MP51777

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-32	Date Sampled: 02/26/10
Lab Sample ID: F71708-18	Date Received: 03/02/10
Matrix: SO - Soil	Percent Solids: 81.9
Project: C9/C11 Selenium; Weston, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	81.9			%	1	03/02/10	CP	SM19 2540B M
Total Organic Carbon	9540	1200	610	mg/kg	1	03/15/10 16:19	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody



Accutest Laboratories Southeast Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

Accutest JOB # **F71708** PAGE 2 OF 2

Accutest Quote # **F71708**

Client / Reporting Information				Project Information										Analytical Information										Matrix Codes
Company Name ECT				Project Name: C9/C11 Selenium										Se, bc Toc										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe
Address 6200 NE 1st Ave #100				Street																				
City FTL State FL Zip 32733A				City Weston State FL																				
Project Contact Mary Westlake E-mail				Project #																				
Phone# 904-271-0244				Fax #																				
Sampler(s) Name(s) (Printed) Rash Adair				Client Purchase Order #																				
Accutest Sample #	Field ID / Point of Collection	COLLECTION		CONTAINER INFORMATION														LAB USE ONLY						
		DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	MOBILE	PLI	NHCl	NH4OH	PHOS	NH3OAc	NON-PHOS	DIWATER	MECH								
13	CSS-C11-16	2/26	9:58	RA	SO	1																		
14	CSS-C11-17	2/26	15:20	RA	SO	2																	X	
15	CSS-C11-22		15:55			1																		
16	CSS-C11-23		10:08			1																		
17	CSS-C11-24		14:50			1																		
18	CSS-C11-32		14:40			2																	X	
TURNAROUND TIME (Business Days)				Data Deliverable Information										Comments / Remarks										
<input checked="" type="checkbox"/> 10 Days Standard <input type="checkbox"/> 7 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> OTHER				Approved By: / Rush Code <input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input type="checkbox"/> FULT1 (EPA LEVEL 4) <input checked="" type="checkbox"/> EDD'S ADAPT																				
Sample Custody must be documented below each time samples change possession, including courier delivery.																								
Relinquished by Sampler: Rash Adair	Date Time:	Relinquished By: Rash Adair	Date Time: 2/26/10 13:55	Relinquished By: Rash Adair	Date Time: 2/26/10 13:55	Relinquished By: Rash Adair	Date Time: 2/26/10 13:55	Relinquished By: Rash Adair	Date Time: 2/26/10 13:55	Relinquished By: Rash Adair	Date Time: 2/26/10 13:55	Relinquished By: Rash Adair	Date Time: 2/26/10 13:55	Relinquished By: Rash Adair	Date Time: 2/26/10 13:55	Relinquished By: Rash Adair	Date Time: 2/26/10 13:55	Relinquished By: Rash Adair	Date Time: 2/26/10 13:55	Relinquished By: Rash Adair	Date Time: 2/26/10 13:55	Relinquished By: Rash Adair	Date Time: 2/26/10 13:55	
1		2		3		4		5		6		7		8		9		10		11		12		
Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: <u>24</u>																								

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3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F 71708 CLIENT: ECT PROJECT: C9/C11
 DATE/TIME RECEIVED: 03-02-10 08:44 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
 AIRBILL NUMBERS: _____

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET
- WET ICE PRESENT

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? _____
 NUMBER OF 5035 FIELD KITS ? _____
 NUMBER OR LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- IR THERM ID 3 CORR. FACTOR 0
- OBSERVED TEMPS: 2.4
- CORRECTED TEMPS: 2.4

SAMPLE INFORMATION

- SAMPLE LABELS PRESENT ON ALL BOTTLES
- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- % SOLIDS JAR NOT RECEIVED
- 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE E.T. 03-02-10 REVIEWER SIGNATURE/DATE JE 03-02-10

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3



General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F71708
Account: ECTFLLAU - ECT
Project: C9/C11 Selenium; Weston, FL

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Total Organic Carbon	GP14481/GN38846	1000	0.0	mg/kg	20000	21300	106.5	88-114%

Associated Samples:

Batch GP14481: F71708-1, F71708-12, F71708-14, F71708-18, F71708-4

(*) Outside of QC limits

4.1
4

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F71708
Account: ECTFLLAU - ECT
Project: C9/C11 Selenium; Weston, FL

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Percent	GN38642	F71706-1	%	78.1	77.1	1.3	0-10%
Solids, Percent	GN38742	F71862-9	%	78.1	75.2	3.8	0-10%
Total Organic Carbon	GP14481/GN38846	F71708-14	mg/kg	9000	9280	3.1	0-36%

Associated Samples:

Batch GN38642: F71708-1, F71708-10, F71708-11, F71708-12, F71708-13, F71708-14, F71708-15, F71708-16, F71708-17, F71708-18, F71708-2, F71708-3, F71708-4, F71708-5, F71708-6, F71708-7, F71708-8

Batch GN38742: F71708-9

Batch GP14481: F71708-1, F71708-12, F71708-14, F71708-18, F71708-4

(*) Outside of QC limits

4.2
4

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F71708
Account: ECTFLLAU - ECT
Project: C9/C11 Selenium; Weston, FL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Total Organic Carbon	GP14481/GN38846	F71708-14	mg/kg	9000	25800	35100	101.0	88-114%

Associated Samples:

Batch GP14481: F71708-1, F71708-12, F71708-14, F71708-18, F71708-4

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

4.3
4



Misc. Forms

5

Custody Documents and Other Forms

(Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody



Metals Analysis

QC Data Summaries

(Accutest New Jersey)

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F71708
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51777
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 03/09/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	25	.34	.52		
Antimony	0.25	.019	.022		
Arsenic	0.50	.074	.11		
Barium	0.50	.013	.038	-0.0056	<0.50
Beryllium	0.25	.007	.03		
Boron	2.5	.29	.25		
Cadmium	0.25	.011	.016		
Calcium	130	3	3.1		
Chromium	2.0	.038	.29		
Cobalt	0.25	.0015	.016		
Copper	2.0	.13	.036		
Iron	25	.68	1.9		
Lead	0.25	.003	.012		
Magnesium	130	.27	1.4		
Manganese	0.25	.006	.02		
Molybdenum	0.50	.024	.096		
Nickel	2.0	.095	.026		
Potassium	130	1.4	3.9		
Selenium	0.50	.039	.058	-0.0050	<0.50
Silver	1.0	.01	.022		
Sodium	130	.56	1.3		
Strontium	0.50	.004	.0082		
Thallium	0.25	.002	.0051		
Tin	0.50	.025			
Titanium	0.50	.027	.27		
Uranium	0.50				
Vanadium	2.0	.27	.79		
Zinc	2.0	.39	.91		

Associated samples MP51777: F71708-1, F71708-2, F71708-3, F71708-4, F71708-5, F71708-6, F71708-7, F71708-8, F71708-9, F71708-10, F71708-11, F71708-12, F71708-13, F71708-14, F71708-15, F71708-16, F71708-17, F71708-18

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F71708
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51777
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/09/10

Metal	F71708-18		SpikeLot		QC
	Original	MS	MPIRS1	% Rec	Limits
Aluminum					
Antimony					
Arsenic					
Barium	17.4	403	404	95.5	75-125
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium	0.16	381	404	94.4	69-125
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP51777: F71708-1, F71708-2, F71708-3, F71708-4, F71708-5, F71708-6, F71708-7, F71708-8, F71708-9, F71708-10, F71708-11, F71708-12, F71708-13, F71708-14, F71708-15, F71708-16, F71708-17, F71708-18

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F71708
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51777
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/09/10

Metal	F71708-18		SpikeLot		MSD RPD	QC Limit
	Original	MSD	MPIRS1	% Rec		
Aluminum						
Antimony						
Arsenic						
Barium	17.4	419	407	98.7	3.9	20
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	0.16	389	407	95.5	2.1	20
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP51777: F71708-1, F71708-2, F71708-3, F71708-4, F71708-5, F71708-6, F71708-7, F71708-8, F71708-9, F71708-10, F71708-11, F71708-12, F71708-13, F71708-14, F71708-15, F71708-16, F71708-17, F71708-18

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F71708
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51777
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/09/10

Metal	BSP Result	Spikelot MPRS1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium	410	400	102.5	80-120
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	442	400	110.5	80-120
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP51777: F71708-1, F71708-2, F71708-3, F71708-4, F71708-5, F71708-6, F71708-7, F71708-8, F71708-9, F71708-10, F71708-11, F71708-12, F71708-13, F71708-14, F71708-15, F71708-16, F71708-17, F71708-18

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F71708
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51777
 Matrix Type: SOLID

Methods: SW846 6020
 Units: ug/l

Prep Date: 03/09/10

Metal	F71708-18 Original SDL 5:25 %DIF		QC Limits
Aluminum			
Antimony			
Arsenic			
Barium	168	165	1.7 0-10
Beryllium			
Boron			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead			
Magnesium			
Manganese			
Molybdenum			
Nickel			
Potassium			
Selenium	1.55	3.58	131.0(a) 0-10
Silver			
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Uranium			
Vanadium			
Zinc			

Associated samples MP51777: F71708-1, F71708-2, F71708-3, F71708-4, F71708-5, F71708-6, F71708-7, F71708-8, F71708-9, F71708-10, F71708-11, F71708-12, F71708-13, F71708-14, F71708-15, F71708-16, F71708-17, F71708-18

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested
 (a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).



Technical Report for

ECT

C-11 Speciation Sampling, Broward Co, FL

10-0096

Accutest Job Number: F71511

Sampling Date: 02/17/10

Report to:


ECT
6300 NE 1st St Suite 100
Ft Lauderdale, FL 33334
padak@ectinc.com

ATTN: Probas Adak

Total number of pages in report: **73**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Sue Bell 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Test results relate only to samples analyzed.



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Sample Summary

ECT

Job No: F71511

C-11 Speciation Sampling, Broward Co, FL
 Project No: 10-0096

Sample Number	Collected		Matrix Code	Type	Client Sample ID	
	Date	Time By				
F71511-1	02/17/10	09:15	CRMD02/20/10	SO	Soil	CSS-WCA-1
F71511-2	02/17/10	09:41	CRMD02/20/10	SO	Soil	CSS-WCA-2
F71511-3	02/17/10	10:01	CRMD02/20/10	SO	Soil	CSS-WCA-3
F71511-4	02/17/10	10:23	CRMD02/20/10	SO	Soil	CSS-WCA-4
F71511-5	02/17/10	10:54	CRMD02/20/10	SO	Soil	CSS-WCA-5
F71511-6	02/17/10	11:16	CRMD02/20/10	SO	Soil	CSS-WCA-6
F71511-7	02/17/10	11:49	CRMD02/20/10	SO	Soil	CSS-WCA-7
F71511-8	02/17/10	12:09	CRMD02/20/10	SO	Soil	CSS-WCA-8
F71511-9	02/17/10	12:31	CRMD02/20/10	SO	Soil	CSS-WCA-9
F71511-10	02/17/10	12:52	CRMD02/20/10	SO	Soil	CSS-WCA-10
F71511-11	02/17/10	13:18	CRMD02/20/10	SO	Soil	CSS-WCA-11
F71511-12	02/17/10	13:39	CRMD02/20/10	SO	Soil	CSS-WCA-12
F71511-13	02/17/10	14:02	CRMD02/20/10	SO	Soil	CSS-WCA-13

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

ECT

Job No: F71511

C-11 Speciation Sampling, Broward Co, FL
 Project No: 10-0096

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F71511-14	02/17/10	14:20	CRMD02/20/10	SO	Soil	CSS-WCA-14
F71511-15	02/17/10	14:37	CRMD02/20/10	SO	Soil	CSS-WCA-15
F71511-16	02/17/10	14:55	CRMD02/20/10	SO	Soil	CSS-WCA-16
F71511-17	02/17/10	15:15	CRMD02/20/10	SO	Soil	CSS-WCA-17
F71511-18	02/17/10	15:35	CRMD02/20/10	SO	Soil	CSS-WCA-18
F71511-19	02/17/10	15:59	CRMD02/20/10	SO	Soil	CSS-WCA-19
F71511-20	02/17/10	16:10	CRMD02/20/10	SO	Soil	CSS-WCA-20
F71511-21	02/17/10	16:29	CRMD02/20/10	SO	Soil	CSS-WCA-21
F71511-22	02/17/10	19:54	CRMD02/20/10	SO	Soil	CSS-WCA-22
F71511-23	02/17/10	17:12	CRMD02/20/10	SO	Soil	CSS-WCA-23
F71511-24	02/17/10	17:41	CRMD02/20/10	SO	Soil	CSS-WCA-24
F71511-25	02/17/10	17:53	CRMD02/20/10	SO	Soil	CSS-WCA-25
F71511-26	02/17/10	18:12	CRMD02/20/10	SO	Soil	CSS-WCA-26

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

ECT

Job No: F71511

C-11 Speciation Sampling, Broward Co, FL
 Project No: 10-0096

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F71511-27	02/17/10	18:30	CRMD02/20/10	SO	Soil	CSS-WCA-27
F71511-28	02/17/10	18:46	CRMD02/20/10	SO	Soil	CSS-WCA-28
F71511-29	02/17/10	19:09	CRMD02/20/10	SO	Soil	CSS-WCA-29
F71511-30	02/17/10	08:02	CRMD02/20/10	SO	Soil	CSS-WCA-30
F71511-31	02/17/10	08:34	CRMD02/20/10	SO	Soil	CSS-WCA-31
F71511-32	02/17/10	08:42	CRMD02/20/10	SO	Soil	CSS-WCA-32
F71511-33	02/17/10	08:26	CRMD02/20/10	SO	Soil	CSS-WCA-33
F71511-34	02/17/10	08:18	CRMD02/20/10	SO	Soil	CSS-WCA-34

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: CSS-WCA-1	Date Sampled: 02/17/10
Lab Sample ID: F71511-1	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 10.2
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.5 I	2.4	0.28	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-2	Date Sampled: 02/17/10
Lab Sample ID: F71511-2	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 9.0
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.0 I	1.8	0.21	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CSS-WCA-3	Date Sampled:	02/17/10
Lab Sample ID:	F71511-3	Date Received:	02/20/10
Matrix:	SO - Soil	Percent Solids:	7.7
Project:	C-11 Speciation Sampling, Broward Co, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	2.0 I	3.2	0.37	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-4	Date Sampled: 02/17/10
Lab Sample ID: F71511-4	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 8.2
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.1 I	2.0	0.24	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-5	Date Sampled: 02/17/10
Lab Sample ID: F71511-5	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 13.4
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.9	1.9	0.22	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-5	Date Sampled: 02/17/10
Lab Sample ID: F71511-5	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 13.4
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	13.4			%	1	02/23/10	CP	SM19 2540B M
Total Organic Carbon	48700	7500	3700	mg/kg	1	03/10/10 14:10	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-6	Date Sampled: 02/17/10
Lab Sample ID: F71511-6	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 11.2
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.1 I	2.2	0.26	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-7	Date Sampled: 02/17/10
Lab Sample ID: F71511-7	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 28.1
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.10 U	0.87	0.10	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-8	Date Sampled: 02/17/10
Lab Sample ID: F71511-8	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 15.1
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.13 U	1.1	0.13	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-9	Date Sampled: 02/17/10
Lab Sample ID: F71511-9	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 17.0
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.9	0.96	0.11	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-10	Date Sampled: 02/17/10
Lab Sample ID: F71511-10	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 19.4
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.38 I	0.85	0.10	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-10	Date Sampled: 02/17/10
Lab Sample ID: F71511-10	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 19.4
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	19.4			%	1	02/23/10	CP	SM19 2540B M
Total Organic Carbon	30200	5200	2600	mg/kg	1	03/10/10 14:55	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-11	Date Sampled: 02/17/10
Lab Sample ID: F71511-11	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 19.3
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.3	0.85	0.099	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-12	Date Sampled: 02/17/10
Lab Sample ID: F71511-12	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 30.9
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.093 U	0.80	0.093	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-13	Date Sampled: 02/17/10
Lab Sample ID: F71511-13	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 26.9
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.13 I	0.91	0.11	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-14		Date Sampled: 02/17/10
Lab Sample ID: F71511-14		Date Received: 02/20/10
Matrix: SO - Soil		Percent Solids: 16.7
Project: C-11 Speciation Sampling, Broward Co, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.4 I	1.5	0.17	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-15		Date Sampled: 02/17/10
Lab Sample ID: F71511-15		Date Received: 02/20/10
Matrix: SO - Soil		Percent Solids: 18.0
Project: C-11 Speciation Sampling, Broward Co, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.16 U	1.4	0.16	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-15	Date Sampled: 02/17/10
Lab Sample ID: F71511-15	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 18.0
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	18			%	1	02/23/10	CP	SM19 2540B M
Total Organic Carbon	20900	5600	2800	mg/kg	1	03/10/10 15:45	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-16	Date Sampled: 02/17/10
Lab Sample ID: F71511-16	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 17.8
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.8	0.92	0.11	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-17	Date Sampled: 02/17/10
Lab Sample ID: F71511-17	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 14.8
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.9	1.1	0.13	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-18	Date Sampled: 02/17/10
Lab Sample ID: F71511-18	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 14.0
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.20 U	1.8	0.20	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-19	Date Sampled: 02/17/10
Lab Sample ID: F71511-19	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 20.8
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.55 I	1.2	0.14	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-20	Date Sampled: 02/17/10
Lab Sample ID: F71511-20	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 19.8
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.6	1.2	0.15	mg/kg	5	03/04/10	03/04/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23932

(2) Prep QC Batch: N:MP51723

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-20	Date Sampled: 02/17/10
Lab Sample ID: F71511-20	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 19.8
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	19.8			%	1	02/23/10	CP	SM19 2540B M
Total Organic Carbon	44800	5100	2500	mg/kg	1	03/11/10 16:17	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-21	Date Sampled: 02/17/10
Lab Sample ID: F71511-21	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 11.1
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.32 I	0.60	0.070	mg/kg	5	03/05/10	03/05/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23938

(2) Prep QC Batch: N:MP51739

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-22		Date Sampled: 02/17/10
Lab Sample ID: F71511-22		Date Received: 02/20/10
Matrix: SO - Soil		Percent Solids: 18.0
Project: C-11 Speciation Sampling, Broward Co, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.5	0.61	0.071	mg/kg	5	03/05/10	03/05/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23938

(2) Prep QC Batch: N:MP51739

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-23	Date Sampled: 02/17/10
Lab Sample ID: F71511-23	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 20.4
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.23 I	0.56	0.066	mg/kg	5	03/05/10	03/05/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23938

(2) Prep QC Batch: N:MP51739

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-24	Date Sampled: 02/17/10
Lab Sample ID: F71511-24	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 26.9
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.15 I	0.51	0.060	mg/kg	5	03/05/10	03/05/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23938

(2) Prep QC Batch: N:MP51739

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-25	Date Sampled: 02/17/10
Lab Sample ID: F71511-25	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 17.4
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	3.3	0.56	0.066	mg/kg	5	03/05/10	03/05/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23938

(2) Prep QC Batch: N:MP51739

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-25	Date Sampled: 02/17/10
Lab Sample ID: F71511-25	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 17.4
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	17.4			%	1	02/23/10	CP	SM19 2540B M
Total Organic Carbon	31600	5700	2900	mg/kg	1	03/11/10 16:43	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-26	Date Sampled: 02/17/10
Lab Sample ID: F71511-26	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 25.5
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.3	0.56	0.066	mg/kg	5	03/05/10	03/05/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23938

(2) Prep QC Batch: N:MP51739

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-27	Date Sampled: 02/17/10
Lab Sample ID: F71511-27	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 12.7
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.0	0.74	0.086	mg/kg	5	03/05/10	03/05/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23938

(2) Prep QC Batch: N:MP51739

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-28	Date Sampled: 02/17/10
Lab Sample ID: F71511-28	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 10.6
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.0	0.58	0.068	mg/kg	5	03/05/10	03/05/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23938

(2) Prep QC Batch: N:MP51739

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-29	Date Sampled: 02/17/10
Lab Sample ID: F71511-29	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 11.0
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.90	0.59	0.069	mg/kg	5	03/05/10	03/05/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23938

(2) Prep QC Batch: N:MP51739

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-30	Date Sampled: 02/17/10
Lab Sample ID: F71511-30	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 18.5
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.64	0.45	0.052	mg/kg	5	03/05/10	03/05/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23938

(2) Prep QC Batch: N:MP51739

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-30	Date Sampled: 02/17/10
Lab Sample ID: F71511-30	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 18.5
Project: C-11 Speciation Sampling, Broward Co, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	18.5			%	1	02/23/10	CP	SM19 2540B M
Total Organic Carbon	30600	5400	2700	mg/kg	1	03/11/10 17:23	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
 MDL = Method Detection Limit

U = Indicates a result < MDL
 I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-31	Date Sampled: 02/17/10
Lab Sample ID: F71511-31	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 18.6
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	2.0	0.58	0.067	mg/kg	5	03/05/10	03/05/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23938

(2) Prep QC Batch: N:MP51739

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-32	Date Sampled: 02/17/10
Lab Sample ID: F71511-32	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 18.3
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.42 I	0.48	0.056	mg/kg	5	03/05/10	03/05/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23938

(2) Prep QC Batch: N:MP51739

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-33	Date Sampled: 02/17/10
Lab Sample ID: F71511-33	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 15.9
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.7	0.54	0.063	mg/kg	5	03/05/10	03/05/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23938

(2) Prep QC Batch: N:MP51739

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-34	Date Sampled: 02/17/10
Lab Sample ID: F71511-34	Date Received: 02/20/10
Matrix: SO - Soil	Percent Solids: 9.1
Project: C-11 Speciation Sampling, Broward Co, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.1	0.66	0.077	mg/kg	5	03/05/10	03/05/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23938

(2) Prep QC Batch: N:MP51739

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F71511 CLIENT: ECT PROJECT: C9-C11
 DATE/TIME RECEIVED: 02-20-10 0800 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
 AIRBILL NUMBERS: _____

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET
- WET ICE PRESENT

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 0
 NUMBER OF 5035 FIELD KITS ? 0
 NUMBER OR LAB FILTERED METALS ? 0

TEMPERATURE INFORMATION

- IR THERM ID: 3 CORR. FACTOR 3.6
- OBSERVED TEMPS: _____
- CORRECTED TEMPS: 3.6

SAMPLE INFORMATION

- SAMPLE LABELS PRESENT ON ALL BOTTLES
- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- % SOLIDS JAR NOT RECEIVED
- 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- RESIDUAL CHLORINE PRESENT

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE ECT 2/20/10 REVIEWER SIGNATURE/DATE [Signature] 2/20/10
 NF 10/09 RECEIPT CONFIRMATION 100609 (2).xls

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3

Job Change Order: F71511_3/2/2010

Requested Date:	3/2/2010	Received Date:	2/20/2010
Account Name:	ECT	Due Date:	3/8/2010
Project Description:	C-11 Speciation Sampling, Broward Co, FL	Deliverable:	COMMB
CSR:	SB	TAT (Days):	14

Sample #: F71511-all **Change:** Revised coc sent in from Crystal @ ECT via e-mail 03.01.10. The coc has collections times.

Above Changes Crystal @ ECT **Date:** 3/2/2010

F71511: Chain of Custody
Page 5 of 5

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1



General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F71511
Account: ECTFLLAU - ECT
Project: C-11 Speciation Sampling, Broward Co, FL

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Total Organic Carbon	GP14463/GN38784	1000	0.0	mg/kg	20000	21000	105.0	88-114%
Total Organic Carbon	GP14469/GN38794	1000	0.0	mg/kg	20000	21000	105.0	88-114%

Associated Samples:

Batch GP14463: F71511-10, F71511-15, F71511-5

Batch GP14469: F71511-20, F71511-25, F71511-30

(*) Outside of QC limits

4.1
4

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F71511
Account: ECTFLLAU - ECT
Project: C-11 Speciation Sampling, Broward Co, FL

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Percent	GN38560	F71511-1	%	10.2	9.9	3.0	0-10%
Solids, Percent	GN38561	F71511-21	%	11.1	10.3	7.5	0-10%
Total Organic Carbon	GP14463/GN38784	F71511-5	mg/kg	48700	36400	28.9	0-36%
Total Organic Carbon	GP14469/GN38794	F71511-20	mg/kg	44800	40500	10.1	0-36%

Associated Samples:

Batch GN38560: F71511-1, F71511-10, F71511-11, F71511-12, F71511-13, F71511-14, F71511-15, F71511-16, F71511-17, F71511-18, F71511-19, F71511-2, F71511-20, F71511-3, F71511-4, F71511-5, F71511-6, F71511-7, F71511-8, F71511-9
Batch GN38561: F71511-21, F71511-22, F71511-23, F71511-24, F71511-25, F71511-26, F71511-27, F71511-28, F71511-29, F71511-30, F71511-31, F71511-32, F71511-33, F71511-34
Batch GP14463: F71511-10, F71511-15, F71511-5
Batch GP14469: F71511-20, F71511-25, F71511-30
(*) Outside of QC limits

4.2
4

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F71511
Account: ECTFLLAU - ECT
Project: C-11 Speciation Sampling, Broward Co, FL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Total Organic Carbon	GP14463/GN38784	F71511-5	mg/kg	48700	149000	191000	95.3	88-114%
Total Organic Carbon	GP14469/GN38794	F71511-20	mg/kg	44800	101000	140000	94.2	88-114%

Associated Samples:

Batch GP14463: F71511-10, F71511-15, F71511-5
Batch GP14469: F71511-20, F71511-25, F71511-30

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

4.3
4



Misc. Forms

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Custody Documents and Other Forms

(Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: F71511
Date / Time Received: 2/24/2010
Project:

Client:

Delivery Method:

Immediate Client Services Action Required: No

Client Service Action Required at Login: No

No. Coolers: 1

Airbill #'s:

<u>Cooler Security</u>	<u>Y or N</u>			<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smp'l Dates/Time OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	Infrared gun	
3. Cooler media:	Ice (bag)	

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

5.1
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Metals Analysis

QC Data Summaries

(Accutest New Jersey)

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F71511
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51723
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 03/04/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	25	.34	.52		
Antimony	0.25	.019	.022		
Arsenic	0.50	.074	.11		
Barium	0.50	.013	.038		
Beryllium	0.25	.007	.03		
Boron	2.5	.29	.25		
Cadmium	0.25	.011	.016		
Calcium	130	3	3.1		
Chromium	2.0	.038	.29		
Cobalt	0.25	.0015	.016		
Copper	2.0	.13	.036		
Iron	25	.68	1.9		
Lead	0.25	.003	.012		
Magnesium	130	.27	1.4		
Manganese	0.25	.006	.02		
Molybdenum	0.50	.024	.096		
Nickel	2.0	.095	.026		
Potassium	130	1.4	3.9		
Selenium	0.50	.039	.058	-0.032	<0.50
Silver	1.0	.01	.022		
Sodium	130	.56	1.3		
Strontium	0.50	.004	.0082		
Thallium	0.25	.002	.0051		
Tin	0.50	.025			
Titanium	0.50	.027	.27		
Uranium	0.50				
Vanadium	2.0	.27	.79		
Zinc	2.0	.39	.91		

Associated samples MP51723: F71511-1, F71511-2, F71511-3, F71511-4, F71511-5, F71511-6, F71511-7, F71511-8, F71511-9, F71511-10, F71511-11, F71511-12, F71511-13, F71511-14, F71511-15, F71511-16, F71511-17, F71511-18, F71511-19, F71511-20

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F71511
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51723
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/04/10

Metal	F71511-19 Original MS		SpikeLot MPIRS1	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium	0.55	959	956	100.3	69-125
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP51723: F71511-1, F71511-2, F71511-3, F71511-4, F71511-5, F71511-6, F71511-7, F71511-8, F71511-9, F71511-10, F71511-11, F71511-12, F71511-13, F71511-14, F71511-15, F71511-16, F71511-17, F71511-18, F71511-19, F71511-20

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F71511
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51723
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/04/10

Metal	F71511-19 Original MSD		SpikeLot MPIRS1 % Rec		MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	0.55	956	946	101.0	0.3	20
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP51723: F71511-1, F71511-2, F71511-3, F71511-4, F71511-5, F71511-6, F71511-7, F71511-8, F71511-9, F71511-10, F71511-11, F71511-12, F71511-13, F71511-14, F71511-15, F71511-16, F71511-17, F71511-18, F71511-19, F71511-20

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F71511
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51723
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/04/10

Metal	BSP Result	Spikelot MPIRS1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	432	400	108.0	80-120
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP51723: F71511-1, F71511-2, F71511-3, F71511-4, F71511-5, F71511-6, F71511-7, F71511-8, F71511-9, F71511-10, F71511-11, F71511-12, F71511-13, F71511-14, F71511-15, F71511-16, F71511-17, F71511-18, F71511-19, F71511-20

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F71511
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51723
 Matrix Type: SOLID

Methods: SW846 6020
 Units: ug/l

Prep Date: 03/04/10

Metal	F71511-19	QC
	Original SDL 5:25 %DIF	Limits

Aluminum		
Antimony		
Arsenic		
Barium		
Beryllium		
Boron		
Cadmium		
Calcium		
Chromium		
Cobalt		
Copper		
Iron		
Lead		
Magnesium		
Manganese		
Molybdenum		
Nickel		
Potassium		
Selenium	2.33	0.00
Silver		
Sodium		
Strontium		
Thallium		
Tin		
Titanium		
Uranium		
Vanadium		
Zinc		

Associated samples MP51723: F71511-1, F71511-2, F71511-3, F71511-4, F71511-5, F71511-6, F71511-7, F71511-8, F71511-9, F71511-10, F71511-11, F71511-12, F71511-13, F71511-14, F71511-15, F71511-16, F71511-17, F71511-18, F71511-19, F71511-20

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested
 (a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F71511
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51739
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 03/05/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.14	.21		
Antimony	0.10	.0076	.0086		
Arsenic	0.20	.03	.044		
Barium	0.20	.005	.015		
Beryllium	0.10	.0028	.012		
Boron	1.0	.11	.1		
Cadmium	0.10	.0044	.0063		
Calcium	50	1.2	1.2		
Chromium	0.80	.015	.12		
Cobalt	0.10	.0006	.0063		
Copper	0.80	.051	.015		
Iron	10	.27	.77		
Lead	0.10	.0012	.0046		
Magnesium	50	.11	.56		
Manganese	0.10	.0024	.0078		
Molybdenum	0.20	.0096	.038		
Nickel	0.80	.038	.01		
Potassium	50	.56	1.5		
Selenium	0.20	.016	.023	0.018	<0.20
Silver	0.40	.004	.0089		
Sodium	50	.22	.52		
Strontium	0.20	.0016	.0033		
Thallium	0.10	.0008	.002		
Tin	0.20	.0098			
Titanium	0.20	.011	.11		
Uranium	0.20				
Vanadium	0.80	.11	.32		
Zinc	0.80	.16	.37		

Associated samples MP51739: F71511-21, F71511-22, F71511-23, F71511-24, F71511-25, F71511-26, F71511-27, F71511-28, F71511-29, F71511-30, F71511-31, F71511-32, F71511-33, F71511-34

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F71511
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51739
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/05/10

Metal	F71511-26 Original MS	SpikeLot MPIRS1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	1.3	408	456	89.2 69-125
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP51739: F71511-21, F71511-22, F71511-23, F71511-24, F71511-25, F71511-26, F71511-27, F71511-28, F71511-29, F71511-30, F71511-31, F71511-32, F71511-33, F71511-34

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F71511
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51739
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/05/10

Metal	F71511-26 Original MSD	SpikeLot MPIRS1	% Rec	MSD RPD	QC Limit	
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	1.3	391	455	85.7	4.3	20
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP51739: F71511-21, F71511-22, F71511-23, F71511-24, F71511-25, F71511-26, F71511-27, F71511-28, F71511-29, F71511-30, F71511-31, F71511-32, F71511-33, F71511-34

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F71511

Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51739
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/05/10

Metal	BSP Result	Spikelot MPIRS1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	430	400	107.5	80-120
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP51739: F71511-21, F71511-22, F71511-23, F71511-24, F71511-25, F71511-26, F71511-27, F71511-28, F71511-29, F71511-30, F71511-31, F71511-32, F71511-33, F71511-34

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F71511
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C-11 Speciation Sampling, Broward Co, FL

QC Batch ID: MP51739
 Matrix Type: SOLID

Methods: SW846 6020
 Units: ug/l

Prep Date: 03/05/10

Metal	F71511-26	QC
	Original	Limits
	SDL 5:25	%DIF

Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	11.6	16.2	39.8 (a)	0-10
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP51739: F71511-21, F71511-22, F71511-23, F71511-24, F71511-25, F71511-26, F71511-27, F71511-28, F71511-29, F71511-30, F71511-31, F71511-32, F71511-33, F71511-34

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).



Technical Report for

ECT

C9/C11 Selenium; Weston, FL

10-0096

Accutest Job Number: F71796

Sampling Dates: 02/23/10 - 02/25/10

Report to:

ECT


padak@ectinc.com

ATTN: Probas Adak

Total number of pages in report: **37**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Sue Bell 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



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Sample Summary

ECT

Job No: F71796

C9/C11 Selenium; Weston, FL
Project No: 10-0096

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F71796-1	02/24/10	07:52	CAR	03/04/10	SO Soil	CSS-C9-10D
F71796-2	02/24/10	08:14	CAR	03/04/10	SO Soil	CSS-C9-15D
F71796-3	02/24/10	10:46	CAR	03/04/10	SO Soil	CSS-C9-20D
F71796-4	02/24/10	11:15	CAR	03/04/10	SO Soil	CSS-C9-25D
F71796-5	02/24/10	13:50	CAR	03/04/10	SO Soil	CSS-C9-30D
F71796-6	02/24/10	14:15	CAR	03/04/10	SO Soil	CSS-C9-35D
F71796-7	02/25/10	13:10	CAR	03/04/10	SO Soil	CSS-C9-40D
F71796-8	02/23/10	14:05	CAR	03/04/10	SO Soil	CSS-C11-20D
F71796-9	02/23/10	11:02	CAR	03/04/10	SO Soil	CSS-C11-25D
F71796-10	02/23/10	12:15	CAR	03/04/10	SO Soil	CSS-C11-34D
F71796-11	02/23/10	09:35	CAR	03/04/10	SO Soil	CSS-C11-30D
F71796-12	02/24/10	00:00	CAR	03/04/10	SO Soil	CSS-C9-5D

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: CSS-C9-10D	Date Sampled: 02/24/10
Lab Sample ID: F71796-1	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 92.3
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.059 I	0.27	0.031	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-15D	Date Sampled: 02/24/10
Lab Sample ID: F71796-2	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 56.8
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.48	0.44	0.051	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-20D	Date Sampled: 02/24/10
Lab Sample ID: F71796-3	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 88.6
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.080 I	0.29	0.033	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-20D	Date Sampled: 02/24/10
Lab Sample ID: F71796-3	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 88.6
Project: C9/C11 Selenium; Weston, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	88.6			%	1	03/10/10 11:25	LT	SM19 2540B M
Total Organic Carbon	17200	1100	560	mg/kg	1	03/15/10 18:08	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-25D	
Lab Sample ID: F71796-4	Date Sampled: 02/24/10
Matrix: SO - Soil	Date Received: 03/04/10
	Percent Solids: 37.2
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	1.9	0.67	0.078	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-30D	
Lab Sample ID: F71796-5	Date Sampled: 02/24/10
Matrix: SO - Soil	Date Received: 03/04/10
	Percent Solids: 36.2
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	2.1	0.69	0.081	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-30D	Date Sampled: 02/24/10
Lab Sample ID: F71796-5	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 36.2
Project: C9/C11 Selenium; Weston, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	36.2			%	1	03/10/10 11:25	LT	SM19 2540B M
Total Organic Carbon	33000	2800	1400	mg/kg	1	03/16/10 10:29	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-35D	Date Sampled: 02/24/10
Lab Sample ID: F71796-6	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 34.4
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	2.0	0.74	0.086	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-40D	Date Sampled: 02/25/10
Lab Sample ID: F71796-7	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 45.9
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	3.5	0.55	0.064	mg/kg	5	03/11/10	03/15/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23970

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-40D	Date Sampled: 02/25/10
Lab Sample ID: F71796-7	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 45.9
Project: C9/C11 Selenium; Weston, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	45.9			%	1	03/10/10 11:25	LT	SM19 2540B M
Total Organic Carbon	31000	2200	1100	mg/kg	1	03/16/10 10:52	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-20D	Date Sampled: 02/23/10
Lab Sample ID: F71796-8	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 83.4
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	4.4	0.30	0.023	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	0.072 I	0.30	0.035	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-25D	Date Sampled: 02/23/10
Lab Sample ID: F71796-9	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 24.8
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	46.4	1.0	0.080	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	3.2	1.0	0.12	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-34D	Date Sampled: 02/23/10
Lab Sample ID: F71796-10	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 23.5
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	71.2	1.1	0.082	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	5.9	1.1	0.13	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-30D	Date Sampled: 02/23/10
Lab Sample ID: F71796-11	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 37.1
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	65.6	0.68	0.052	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	3.4	0.68	0.080	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-5D	Date Sampled: 02/24/10
Lab Sample ID: F71796-12	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 34.9
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	4.6	0.73	0.086	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C9-5D	Date Sampled: 02/24/10
Lab Sample ID: F71796-12	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 34.9
Project: C9/C11 Selenium; Weston, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	34.9			%	1	03/10/10 11:25	LT	SM19 2540B M
Total Organic Carbon	39200	2900	1400	mg/kg	1	03/16/10 11:11	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody



CHAIN OF CUSTODY

4405 Vineland Rd., Suite C15
Orlando, FL 32811
407.425.6700, fax 407.425.0707

F71796

Accutest Job #:
Accutest Control #:

Client Information			Facility Information				Analytical Information														
Name ECT			Project Name C9 AND C11				Se (By 6020)	TOC	Ba												
Address 6300 NE 1ST AVE.			Location FL																		
City State Zip FT LAUDERDALE FL 33334			Project No. 10-0096																		
Send Report to: Phone #: 9547710444 FAX #:																					
Collector			Preservator																		
Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	voc	NO3	NO2	PHOS	None	Se	TOC	Ba								
1 CSS-C9-10D	2/24/2010	752	CAR/M	SO	1						X										
2 CSS-C9-15D	2/24/2010	814	CAR/M	SO	1						X										
3 CSS-C9-20D	2/24/2010	1046	CAR/M	SO	1						X	X									
4 CSS-C9-25D	2/24/2010	1115	CAR/M	SO	2						X										
5 CSS-C9-30D	2/24/2010	1350	CAR/M	SO	1						X	X									
6 CSS-C9-35D	2/24/2010	1415	CAR/M	SO	2						X										
7 CSS-C9-40D	2/25/2010	1310	CAR/M	SO	1						X	X									
8 CSS-C11-20D	2/23/2010	1405	PA	SO	1						X		X								
9 CSS-C11-25D	2/23/2010	1102	PA	SO	1						X		X								
10 CSS-C11-34D	2/23/2010	1215	PA	SO	1						X		X								
11 CSS-C11-30D	2/23/2010	935	PA	SO	1						X		X								

Turnaround Information	Data Deliverable Information	Comments / Remarks
<input checked="" type="checkbox"/> 14 Day Standard <input type="checkbox"/> 7 days <input type="checkbox"/> 24 hour <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data Data unless previously approved.	<input type="checkbox"/> NJ Reduced <input type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input checked="" type="checkbox"/> Other (Specify)	<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> ADAPT EDD
CSS-C9-5. Should be logged in for Selenium & TOC analysis. 2/24/10 0000 DM 3/3/10		

Sample Custody must be documented below each time samples change possession, including courier delivery.				
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:
1		1	2	3/3/10 1430
3	3/4/10 9:00	3	4	
5		5	Seal #	On Ice: <input checked="" type="checkbox"/> 3.0

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3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F71796 CLIENT: ECT PROJECT: C9 and c11
 DATE/TIME RECEIVED: 3/4/10 9:00 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
 AIRBILL NUMBERS: 8510 8882 8841

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET
- WET ICE PRESENT

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 0
 NUMBER OF 5035 FIELD KITS ? 0
 NUMBER OR LAB FILTERED METALS ? 0

TEMPERATURE INFORMATION

- IR THERM ID IA3 CORR. FACTOR 40
- OBSERVED TEMPS: 3.0
- CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

- SAMPLE LABELS PRESENT ON ALL BOTTLES
- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- % SOLIDS JAR NOT RECEIVED
- 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: Received 1 extra jar labeled CSS-C9-5D

TECHNICIAN SIGNATURE/DATE [Signature] 3/4/10 REVIEWER SIGNATURE/DATE JE 03-04-10

NF 10/09

RECEIPT CONFIRMATION 100609 (2).xls

31
3

Job Change Order: F71796_3/4/2010

Requested Date:	3/4/2010	Received Date:	3/4/2010
Account Name:	ECT	Due Date:	3/15/2010
Project Description:	C9/C11 Selenium; Weston, FL	Deliverable:	COMMB
CSR:	SB	TAT (Days):	14

Sample #: F71796-CSS-C9-5D **Change:** Per Probas @ ECT via phone 03.0.10, run this sample for Se and TOC.

Above Changes Probas @ ECT **Date:** 3/4/2010

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

F71796: Chain of Custody
Page 3 of 3



General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
 GENERAL CHEMISTRY

Login Number: F71796
 Account: ECTFLLAU - ECT
 Project: C9/C11 Selenium; Weston, FL

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Total Organic Carbon	GP14481/GN38846	1000	0.0	mg/kg	20000	21300	106.5	88-114%
Total Organic Carbon	GP14492/GN38879	1000	0.0	mg/kg	20000	21300	106.5	88-114%

Associated Samples:
 Batch GP14481: F71796-3
 Batch GP14492: F71796-12, F71796-5, F71796-7
 (*) Outside of QC limits

4.1
4

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F71796
Account: ECTFLLAU - ECT
Project: C9/C11 Selenium; Weston, FL

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Percent	GN38758	F71730-1	%	81.1	80.5	0.7	0-10%
Total Organic Carbon	GP14481/GN38846	F71708-14	mg/kg	9000	9280	3.1	0-36%
Total Organic Carbon	GP14492/GN38879	F71796-5	mg/kg	33000	26600	21.5	0-36%

Associated Samples:

Batch GN38758: F71796-1, F71796-10, F71796-11, F71796-12, F71796-2, F71796-3, F71796-4, F71796-5, F71796-6, F71796-7, F71796-8, F71796-9

Batch GP14481: F71796-3

Batch GP14492: F71796-12, F71796-5, F71796-7

(*) Outside of QC limits

4.2
4

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F71796
Account: ECTFLLAU - ECT
Project: C9/C11 Selenium; Weston, FL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Total Organic Carbon	GP14481/GN38846	F71708-14	mg/kg	9000	25800	35100	101.0	88-114%
Total Organic Carbon	GP14492/GN38879	F71796-5	mg/kg	33000	55200	75500	76.9N(a)	88-114%

Associated Samples:

Batch GP14481: F71796-3

Batch GP14492: F71796-12, F71796-5, F71796-7

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

4.3
4



Misc. Forms

5

Custody Documents and Other Forms

(Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: F71796

Client:

Immediate Client Services Action Required: No

Date / Time Received: 3/9/2010

Delivery Method:

Client Service Action Required at Login: No

Project:

No. Coolers: 1

Airbill #'s:

<u>Cooler Security</u>	<u>Y or N</u>			<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. SmpI Dates/Time OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	Infrared gun	
3. Cooler media:	Ice (bag)	

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

5.1
5



Metals Analysis

QC Data Summaries

(Accutest New Jersey)

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F71796
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51802
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 03/11/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.14	.21		
Antimony	0.10	.0076	.0086		
Arsenic	0.20	.03	.044		
Barium	0.20	.005	.015	0.066	<0.20
Beryllium	0.10	.0028	.012		
Boron	1.0	.11	.1		
Cadmium	0.10	.0044	.0063		
Calcium	50	1.2	1.2		
Chromium	0.80	.015	.12		
Cobalt	0.10	.0006	.0063		
Copper	0.80	.051	.015		
Iron	10	.27	.77		
Lead	0.10	.0012	.0046		
Magnesium	50	.11	.56		
Manganese	0.10	.0024	.0078		
Molybdenum	0.20	.0096	.038		
Nickel	0.80	.038	.01		
Potassium	50	.56	1.5		
Selenium	0.20	.016	.023	0.017	<0.20
Silver	0.40	.004	.0089		
Sodium	50	.22	.52		
Strontium	0.20	.0016	.0033		
Thallium	0.10	.0008	.002		
Tin	0.20	.0098			
Titanium	0.20	.011	.11		
Uranium	0.20				
Vanadium	0.80	.11	.32		
Zinc	0.80	.16	.37		

Associated samples MP51802: F71796-1, F71796-2, F71796-3, F71796-4, F71796-5, F71796-6, F71796-7, F71796-8, F71796-9, F71796-10, F71796-11, F71796-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F71796
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51802
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/11/10

Metal	F71797-2 Original MS		SpikeLot MPIRS1	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic					
Barium	81.3	984	883	102.2	75-125
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium	0.65	908	883	102.8	69-125
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP51802: F71796-1, F71796-2, F71796-3, F71796-4, F71796-5, F71796-6, F71796-7, F71796-8, F71796-9, F71796-10, F71796-11, F71796-12

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F71796
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51802
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/11/10

Metal	F71797-2 Original MSD		SpikeLot MPIRS1 % Rec		MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium	81.3	1100	923	110.3	11.1	20
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	0.65	1020	923	110.4	11.6	20
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP51802: F71796-1, F71796-2, F71796-3, F71796-4, F71796-5, F71796-6, F71796-7, F71796-8, F71796-9, F71796-10, F71796-11, F71796-12

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F71796
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51802
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/11/10

Metal	BSP Result	Spikelot MPIRS1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium	438	400	109.5	80-120
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	444	400	111.0	80-120
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP51802: F71796-1, F71796-2, F71796-3, F71796-4, F71796-5, F71796-6, F71796-7, F71796-8, F71796-9, F71796-10, F71796-11, F71796-12

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F71796
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51802
 Matrix Type: SOLID

Methods: SW846 6020
 Units: ug/l

Prep Date: 03/11/10

Metal	F71797-2		QC	
	Original	SDL 5:25	%DIF	Limits
Aluminum				
Antimony				
Arsenic				
Barium	368	368	0.1	0-10
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	2.93	6.16	110.6(a)	0-10
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP51802: F71796-1, F71796-2, F71796-3, F71796-4, F71796-5, F71796-6, F71796-7, F71796-8, F71796-9, F71796-10, F71796-11, F71796-12

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

March 10, 2010

Service Request No: J1000934

Barry Westmark
Environmental Consulting & Technology, Inc.
6300 Northeast First Avenue, Suite 100
Fort Lauderdale, FL 33334

Laboratory Results for: C9 & C11/10-0096

Dear Barry:

Enclosed are the results of the sample(s) submitted to our laboratory on February 27, 2010. For your reference, these analyses have been assigned our service request number **J1000934**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.



Craig Myers
Project Manager

Page 1 of 16

Florida DEP Data Qualifiers

- B Results based upon colony counts outside the acceptable range.
- D Measurement was made in the field.
- H Value based on field kit determination; results may not be accurate.
- i The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
 2. No known quality control criteria exists for the component.
 3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
 4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
 5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).
- K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).
- L Off scale high. The analyte is above the upper limit of the linear calibration range.
- M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.
- N Presumptive evidence of the analyte. Confirmation was not performed.
- Q Sample held beyond the accepted holding time.
- T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.
- U Indicates that the compound was analyzed for but not detected.
- V Indicates that the analyte was detected in both the sample and the associated method blank.
- Y The laboratory analysis was from an improperly preserved sample.
- Z Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Environmental Consulting & Technology, Inc.
Project: C9 & C11/10-0096

Service Request: J1000934

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1000934-001	CSS-C9-10	2/24/10	00:00
J1000934-002	CSS-C9-15	2/24/10	00:00
J1000934-003	CSS-C9-20	2/24/10	00:00
J1000934-004	CSS-C9-25	2/24/10	00:00
J1000934-005	CSS-C9-30	2/24/10	00:00
J1000934-006	CSS-C9-35	2/24/10	00:00
J1000934-007	CSS-C9-40	2/25/10	00:00
J1000934-008	CSS-C11-20	2/23/10	14:05
J1000934-009	CSS-C11-25	2/23/10	11:02
J1000934-010	CSS-C11-30	2/23/10	09:35
J1000934-011	CSS-C11-34	2/23/10	12:15
J1000934-012	CSS-C9-5	2/24/10	00:00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Environmental Consulting & Technology, Inc.
Project: C9 & C11/10-0096
Sample Matrix: Soil
Prep Method: EPA 3050B
Analysis Method: 6020

Service Request: J1000934
Date Collected: 2/23/10 - 2/25/10
Date Received: 2/27/10
Units: mg/Kg
Basis: Dry

Selenium, Total

Sample Name	Lab Code	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed
CSS-C9-10	J1000934-001	0.5 I	2.3	0.5	1	3/ 3/10	3/4/10 15:12
CSS-C9-15	J1000934-002	1.0 I	3.3	0.7	1	3/ 3/10	3/4/10 15:17
CSS-C9-20	J1000934-003	0.6 I	2.2	0.5	1	3/ 3/10	3/4/10 15:48
CSS-C9-25	J1000934-004	2.6 I	5.2	1.1	1	3/ 3/10	3/4/10 15:53
CSS-C9-30	J1000934-005	3.0 I	5.6	1.2	1	3/ 3/10	3/4/10 16:14
CSS-C9-35	J1000934-006	2.8 I	5.5	1.2	1	3/ 3/10	3/4/10 16:19
CSS-C9-40	J1000934-007	4.5 I	4.6	1.0	1	3/ 3/10	3/4/10 16:24
CSS-C11-20	J1000934-008	ND U	2.7	0.6	1	3/ 3/10	3/4/10 16:29
CSS-C11-25	J1000934-009	6.1 I	8.4	1.7	1	3/ 3/10	3/4/10 16:34
CSS-C11-30	J1000934-010	5.9 I	9.2	1.9	1	3/ 3/10	3/4/10 16:39
CSS-C11-34	J1000934-011	6.4 I	6.5	1.4	1	3/ 3/10	3/4/10 16:44
CSS-C9-5	J1000934-012	6.5	6.1	1.3	1	3/ 3/10	3/4/10 16:49
Method Blank	J1000934-MB	ND U	2.0	0.4	1	3/ 3/10	3/4/10 14:16

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Consulting & Technology, Inc.
Project Name : C9 & C11
Project Number : 10-0096
Sample Matrix : SOIL

Service Request : J1000934
Date Collected : 02/23,24/10
Date Received : 02/27/10

Carbon, Total Organic

Analysis Method : SID, S3
Test Notes :

Units : mg/Kg (ppm)
Basis : Dry

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
CSS-C9-20	J1000934-003	300	55	1	03/03/10 17:00	7700	
CSS-C9-30	J1000934-005	300	55	1	03/03/10 17:00	100000	
CSS-C11-20	J1000934-008	300	55	1	03/03/10 17:00	8300	
CSS-C9-5	J1000934-012	300	55	1	03/03/10 17:00	180000	
Method Blank	J1000934-MB	300	55	1	03/03/10 17:00	U	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Environmental Consulting & Technology, Inc.
Project Name : C9 & C11
Project Number : 10-0096
Sample Matrix : SOIL

Service Request : J1000934
Date Collected : 02/23-25/10
Date Received : 02/27/10

Solids, Total

Analysis Method : 160.3 MOD
 Test Notes :

Units : PERCENT
 Basis : NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date/Time Analyzed	Result	Result Notes
CSS-C9-10	J1000934-001	0.1	0.1	1	03/02/10 17:30	89	
CSS-C9-15	J1000934-002	0.1	0.1	1	03/02/10 17:30	57	
CSS-C9-20	J1000934-003	0.1	0.1	1	03/02/10 17:30	89	
CSS-C9-25	J1000934-004	0.1	0.1	1	03/02/10 17:30	36	
CSS-C9-30	J1000934-005	0.1	0.1	1	03/02/10 17:30	35	
CSS-C9-35	J1000934-006	0.1	0.1	1	03/02/10 17:30	34	
CSS-C9-40	J1000934-007	0.1	0.1	1	03/02/10 17:30	43	
CSS-C11-20	J1000934-008	0.1	0.1	1	03/02/10 17:30	78	
CSS-C11-25	J1000934-009	0.1	0.1	1	03/02/10 17:30	23	
CSS-C11-30	J1000934-010	0.1	0.1	1	03/02/10 17:30	22	
CSS-C11-34	J1000934-011	0.1	0.1	1	03/02/10 17:30	31	
CSS-C9-5	J1000934-012	0.1	0.1	1	03/02/10 17:30	32	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Consulting & Technology, Inc.
Project: C9 & C11/10-0096
Sample Matrix: Soil

Service Request: J1000934
Date Collected: 2/24/10
Date Received: 2/27/10
Date Analyzed: 3/ 4/10

Matrix Spike Summary
Selenium, Total, by Inductively Coupled Plasma/Mass Spectrometry

Sample Name: CSS-C9-15
Lab Code: J1000934-002

Units: mg/Kg
Basis: Dry

Analytical Method: 6020
Prep Method: EPA 3050B

Analyte Name	Sample Result	Matrix Spike J1000934-MS			Duplicate Matrix Spike J1000934-DMS			% Rec Limits	RPD	RPD Limit
		Result	Amount	% Rec	Result	Amount	% Rec			
Selenium, Total	1.0	157	170	92	157	167	94	75 - 125	0	20

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Consulting & Technology, Inc.
Project: C9 & C11/10-0096
Sample Matrix: Soil

Service Request: J1000934
Date Analyzed: 3/4/10

Lab Control Sample Summary
Selenium, Total, by Inductively Coupled Plasma/Mass Spectrometry

Units: mg/Kg
Basis: Dry

Analyte Name	Method	Lab Control Sample			% Rec Limits
		Result	Expected	% Rec	
Selenium, Total	6020	99.2	103	96	80 - 120

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Environmental Consulting & Technology, Inc.
Project Name : C9 & C11
Project Number : 10-0096
Sample Matrix : SOIL

Service Request : J1000934
Date Collected : 02/24/10
Date Received : 02/27/10
Date Extracted : NA
Date Analyzed : 03/02/10

Duplicate Summary
Inorganic Parameters

Sample Name : CSS-C9-10
Lab Code : J1000934-001DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Solids, Total	PERCENT	160.3 MOD	0.1	89	89	89	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Environmental Consulting & Technology, Inc.
Project Name : C9 & C11
Project Number : 10-0096
Sample Matrix : SOIL

Service Request : J1000934
Date Collected : 02/23/10
Date Received : 02/27/10
Date Extracted : NA
Date Analyzed : 03/02/10

Duplicate Summary
Inorganic Parameters

Sample Name : CSS-C11-34
Lab Code : J1000934-011DUP
Test Notes :

Basis : NA

Analyte	Units	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Solids, Total	PERCENT	160.3 MOD	0.1	31	38	34.5	20	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Environmental Consulting & Technology, Inc.
Project Name : C9 & C11
Project Number : 10-0096
Sample Matrix : SOIL

Service Request : J1000934
Date Collected : NA
Date Received : NA
Date Extracted : NA
Date Analyzed : 03/03/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Laboratory Control Sample
Lab Code : J1000934-LCS
Test Notes :

Basis : Dry

Analyte	Units	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Carbon, Total Organic	mg/Kg (ppm)	S1D, S3	14200	16755	118	20-120	



Columbia Analytical Services, Inc.
Cooler Receipt Form

Client: ECT

Service Request #: J1000934

Project: C9+C11

Cooler received on 3-1-10

and opened on 3-1-10 by sc

COURIER: CAS UPS FEDEX Client Other Blue Streak

Airbill # _____

- | | | | | |
|----|---|--------------------------------------|-------------------------------------|--------------------------------------|
| 1 | Were custody seals on outside of cooler?
If yes, how many and where? | Yes | <input checked="" type="radio"/> No | |
| 2 | Were seals intact and signature and date correct? | Yes | No | <input checked="" type="radio"/> N/A |
| 3 | Were custody papers properly filled out? | <input checked="" type="radio"/> Yes | No | N/A |
| 4 | Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C) | <u>3.5</u> | | |
| 5 | Thermometer ID | <u>T13</u> | | |
| 6 | Temperature Blank Present? | Yes | <input checked="" type="radio"/> No | |
| 7 | Were Ice or Ice Packs present | <input checked="" type="radio"/> Ice | Ice Packs | No |
| 8 | Did all bottles arrive in good condition (unbroken, etc....)? | <input checked="" type="radio"/> Yes | No | N/A |
| 9 | Type of packing material present | _____ | | |
| 10 | Were all bottle labels complete (sample ID, preservation, etc....)? | <input checked="" type="radio"/> Yes | No | N/A |
| 11 | Did all bottle labels and tags agree with custody papers? | Yes | <input checked="" type="radio"/> No | N/A |
| 12 | Were the correct bottles used for the tests indicated? | <input checked="" type="radio"/> Yes | No | N/A |
| 13 | Were all of the preserved bottles received with the appropriate preservative?
HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2
Preservative additions noted below | Yes | No | <input checked="" type="radio"/> N/A |
| 14 | Were all samples received within analysis holding times? | <input checked="" type="radio"/> Yes | No | N/A |
| 15 | Were VOA vials checked for absence of air bubbles? If present, note below | Yes | No | <input checked="" type="radio"/> N/A |
| 16 | Where did the bottles originate? | <input checked="" type="radio"/> CAS | Client | |

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

Additional comments and/or explanation of all discrepancies noted above:
additional sample C55-C9-5 was included but not listed on COC, no date or time given.
no sample times listed on COC for all C9 samples

Client approval to run samples if discrepancies noted: _____ Date: 13



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011 PAGE 1 OF 2

SR #

51000934
CAS Contact

Project Name: C9 & C11
 Project Manager: BARRY WESTMARK
 Company/Address: ECT
6300 NE 1st Ave #100
FT LAUDERDALE FL 33334
 Phone #: 954-771-0444
 Sampler's Signature: CAK
 FAX #: 954-771-7118
 Sampler's Printed Name: CAR & MCA

Project Number: 10-0096
 Email Address: [REDACTED]
 ANALYSIS REQUESTED (Include Method Number):
 PRESERVATIVE: 0
 NUMBER OF CONTAINERS: SC
BA
TDC
 REMARKS/ALTERNATE DESCRIPTION:
 0. NONE
 1. HCl
 2. HNO₃
 3. H₂SO₄
 4. NaOH
 5. Zn Acetate
 6. MeOH
 7. NaHSO₄
 8. Other _____

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX
CSS-C9-10		2/24/10		SO
CSS-C9-15				
CSS-C9-20				
CSS-C9-25				
CSS-C9-30				
CSS-C9-35		2/24/10		
CSS-C9-40		2/25/10		SO
CSS-C11-20		2/23/10	1405	
CSS-C11-25		2/23/10	1102	
CSS-C11-30		2/23/10	0935	SO

SPECIAL INSTRUCTIONS/COMMENTS:
No Barium analysis required per Mike
Dwall 2/3/10 Ok

TURNAROUND REQUIREMENTS:
 RUSH (SURCHARGES APPLY)
 STANDARD
 REQUESTED FAX DATE: _____
 REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS:
 I. Results Only
 II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
 III. Results + QC and Calibration Summaries
 IV. Data Validation Report with Raw Data
 V. Specialized Forms / Custom Report
 Edata Yes No

INVOICE INFORMATION:
 PO#: _____
 BILL TO: _____

See QAPP

SAMPLE RECEIPT: CONDITION/COOLER TEMP. _____

RELINQUISHED BY	RECEIVED BY	CUSTODY SEALS: Y N
Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>	RELINQUISHED BY
Printed Name: _____	Printed Name: <u>DUZE</u>	Signature: <u>[Signature]</u>
Firm: _____	Firm: <u>STRAK</u>	Printed Name: <u>EMERSON</u>
Date/Time: <u>2/26/10</u>	Date/Time: <u>2/27/10 0905</u>	Firm: <u>CAS</u>
		Date/Time: _____

March 16, 2010

Mr. Barry Westmark
ECT, Inc.
6300 NE 1st Avenue #100
Fort Lauderdale, FL 33334

RE: Project: C9/C11 Selenium
Pace Project No.: 358199

Dear Mr. Westmark:

Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,



Martha Montero

martha.montero@pacelabs.com
Project Manager

Enclosures

cc: Mr. Probas Adak, ECT, Inc.
Mark Lefebvre, ECT, Inc.

REPORT OF LABORATORY ANALYSIS

Page 1 of 16

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CERTIFICATIONS

Project: C9/C11 Selenium

Pace Project No.: 358199

Minnesota Certification IDs

Tennessee Certification #: 02818
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Michigan DEQ Certification #: 9909
Maine Certification #: 2007029
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605

California Certification #: 01155CA
Arizona Certification #: AZ-0014
North Carolina Certification #: 530
North Dakota Certification #: R-036
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
New York Certification #: 11647
Washington Certification #: C754
Wisconsin Certification #: 999407970
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078

Green Bay Certification IDs

1241 Bellevue Street Green Bay, WI 54302
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
North Dakota Certification #: R-150
North Carolina Certification #: 503
California Certification #: 09268CA

New York Certification #: 11887
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04168
Kentucky Certification #: 82
Illinois Certification #: 200050
Florida/NELAP Certification #: E87948
New York Certification #: 11888

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: C9/C11 Selenium

Pace Project No.: 358199

Lab ID	Sample ID	Matrix	Date Collected	Date Received
358199001	CSS-C11-5	Solid	02/26/10 13:20	03/02/10 12:00
358199002	CSS-C11-15	Solid	02/26/10 14:55	03/02/10 12:00
358199003	CSS-C11-17	Solid	02/26/10 15:30	03/02/10 12:00

REPORT OF LABORATORY ANALYSIS

Page 3 of 16

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SAMPLE ANALYTE COUNT

Project: C9/C11 Selenium

Pace Project No.: 358199

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
358199001	CSS-C11-5	EPA 6020	RJS	2	PASI-M
		% Moisture	JDL	1	PASI-M
358199002	CSS-C11-15	EPA 6020	RJS	2	PASI-M
		% Moisture	JDL	1	PASI-M
358199003	CSS-C11-17	EPA 6020	RJS	2	PASI-M
		ASTM D2974-87	KAM	1	PASI-G
		EPA 9060 Modified	DJR	3	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: C9/C11 Selenium
Pace Project No.: 358199

Method: EPA 6020
Description: 6020 MET ICPMS
Client: ECT, Inc.
Date: March 16, 2010

General Information:

3 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

Page 5 of 16

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PROJECT NARRATIVE

Project: C9/C11 Selenium

Pace Project No.: 358199

Method: % Moisture

Description: Dry Weight

Client: ECT, Inc.

Date: March 16, 2010

General Information:

2 samples were analyzed for % Moisture. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

Page 6 of 16

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PROJECT NARRATIVE

Project: C9/C11 Selenium
Pace Project No.: 358199

Method: EPA 9060 Modified
Description: Total Organic Carbon
Client: ECT, Inc.
Date: March 16, 2010

General Information:

1 sample was analyzed for EPA 9060 Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: C9/C11 Selenium

Pace Project No.: 358199

Sample: CSS-C11-5 **Lab ID: 358199001** Collected: 02/26/10 13:20 Received: 03/02/10 12:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020								
Barium	29.9	mg/kg	0.66	0.11	20	03/08/10 14:51	03/09/10 16:43	7440-39-3	
Selenium	2.8	mg/kg	1.1	0.55	20	03/08/10 14:51	03/09/10 16:43	7782-49-2	
Dry Weight	Analytical Method: % Moisture								
Percent Moisture	58.6	%	0.10	0.10	1		03/05/10 00:00		

ANALYTICAL RESULTS

Project: C9/C11 Selenium

Pace Project No.: 358199

Sample: CSS-C11-15 **Lab ID: 358199002** Collected: 02/26/10 14:55 Received: 03/02/10 12:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020								
Barium	11.2	mg/kg	0.46	0.077	20	03/08/10 14:51	03/09/10 17:04	7440-39-3	
Selenium	0.88	mg/kg	0.77	0.39	20	03/08/10 14:51	03/09/10 17:04	7782-49-2	
Dry Weight	Analytical Method: % Moisture								
Percent Moisture	42.2	%	0.10	0.10	1		03/05/10 00:00		

ANALYTICAL RESULTS

Project: C9/C11 Selenium

Pace Project No.: 358199

Sample: CSS-C11-17 **Lab ID: 358199003** Collected: 02/26/10 15:30 Received: 03/02/10 12:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020							
Barium	9.6	mg/kg	0.38	0.063	20	03/08/10 14:51	03/09/10 17:25	7440-39-3	
Selenium	0.34	mg/kg	0.63	0.32	20	03/08/10 14:51	03/09/10 17:25	7782-49-2	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	32.0	%	0.10	0.10	1		03/05/10 07:48		
Total Organic Carbon		Analytical Method: EPA 9060 Modified							
Total Organic Carbon	107000	mg/kg	33300	9330	1		03/15/10 12:39	7440-44-0	
Total Organic Carbon	75800	mg/kg	33300	9330	1		03/15/10 12:43	7440-44-0	
Mean Total Organic Carbon	91400	mg/kg	33300	9330	1		03/15/10 12:43	7440-44-0	

QUALITY CONTROL DATA

Project: C9/C11 Selenium

Pace Project No.: 358199

QC Batch: ICPM/19470

Analysis Method: EPA 6020

QC Batch Method: EPA 6020

Analysis Description: 6020 MET

Associated Lab Samples: 358199001, 358199002, 358199003

METHOD BLANK: 755844

Matrix: Solid

Associated Lab Samples: 358199001, 358199002, 358199003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/kg	0.047U	0.28	03/09/10 16:09	
Selenium	mg/kg	0.23U	0.47	03/09/10 16:09	

LABORATORY CONTROL SAMPLE: 755845

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/kg	19.2	19.3	101	75-125	
Selenium	mg/kg	19.2	18.8	98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 755846

755847

Parameter	Units	5035041001		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Barium	mg/kg	21.3	22.7	22.7	24.4	44.8	47.0	103	106	70-130	5	20
Selenium	mg/kg	2.2	22.7	24.4	26.7	28.3	108	107	107	70-130	6	20

QUALITY CONTROL DATA

Project: C9/C11 Selenium

Pace Project No.: 358199

QC Batch: MPRP/19458

Analysis Method: % Moisture

QC Batch Method: % Moisture

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 358199001, 358199002

SAMPLE DUPLICATE: 755588

Parameter	Units	358199001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	58.6	59.4	1	30	

QUALITY CONTROL DATA

Project: C9/C11 Selenium
Pace Project No.: 358199

QC Batch:	PMST/3680	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	358199003		

SAMPLE DUPLICATE: 270976

Parameter	Units	4028987001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.5	9.7	2	10	

QUALITY CONTROL DATA

Project: C9/C11 Selenium
Pace Project No.: 358199

QC Batch: WETA/5901 Analysis Method: EPA 9060 Modified
QC Batch Method: EPA 9060 Modified Analysis Description: 9060 TOC Average
Associated Lab Samples: 358199003

METHOD BLANK: 274704 Matrix: Solid
Associated Lab Samples: 358199003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/kg	70.0U	250	03/15/10 12:17	

LABORATORY CONTROL SAMPLE: 274705

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/kg	1000	1040	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 274706 274707

Parameter	Units	358199003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mean Total Organic Carbon	mg/kg	91400	66700	66700	156000	162000	97	106	50-150	4	30	

QUALIFIERS

Project: C9/C11 Selenium

Pace Project No.: 358199

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: C9/C11 Selenium

Pace Project No.: 358199

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
358199001	CSS-C11-5	EPA 6020	ICPM/19470	EPA 6020	ICPM/7986
358199002	CSS-C11-15	EPA 6020	ICPM/19470	EPA 6020	ICPM/7986
358199003	CSS-C11-17	EPA 6020	ICPM/19470	EPA 6020	ICPM/7986
358199001	CSS-C11-5	% Moisture	MPRP/19458		
358199002	CSS-C11-15	% Moisture	MPRP/19458		
358199003	CSS-C11-17	ASTM D2974-87	PMST/3680		
358199003	CSS-C11-17	EPA 9060 Modified	WETA/5901		
358199003	CSS-C11-17	EPA 9060 Modified	WETA/5902		

Sample Condition Upon Receipt Form (SCUR)

Table Number: 25



Client Name: ECT

Project # 358199

Courier: Fed Ex UPS USPS Client Commercial Pace B&B Other

Tracking # 8714 7658 5345

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used L4 L5 L6 Type of Ice Wet Blue None

Cooler Temperature 0.9 (Actual) (Temp should be above freezing to 6°C)

Receipt of samples satisfactory: Yes No

Date and Initials of person examining contents: 3/2/10 EW

Secondary Review Initials: _____

Rush TAT requested on COC:

If yes, then all conditions below were met:

If no, then mark box & describe issue (use comments area if necessary):

Chain of Custody Present	<input type="checkbox"/>
Chain of Custody Filled Out	<input type="checkbox"/>
Relinquished Signature & Sampler Name COC	<input type="checkbox"/>
Samples Arrived within Hold Time	<input type="checkbox"/>
Sufficient Volume	<input type="checkbox"/>
Correct Containers Used	<input type="checkbox"/>
Containers Intact	<input type="checkbox"/>
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/>
	No Labels: <input type="checkbox"/> No Time/Date on Labels: <input type="checkbox"/>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/>
No Headspace in VOA Vials (>6mm):	<input type="checkbox"/>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____

Date: _____

Finished Product Information Only

F.P. Sample ID: _____

Production Code: _____

Date/Time Opened: _____

Number of Unopened Bottles Remaining: _____

Extra Sample in Shed: Yes No

Size & Qty of Bottles Received

- _____ x 5 Gal
- _____ x 2.5 Gal
- _____ x 1 Gal
- _____ x 1 Liter
- _____ x 500 mL
- _____ x 250 mL
- _____ x Other: _____

Sample	Container Acode	Size	Type	Preservative		
1	GJ / 12GU	Gal - 1/2Gal	Plastic	Cool	Wet Chem*	
2	BP1U / BP1S	1 Liter	Plastic	FF Cool - H2SO4		
3	AP1U	1 Liter	Plastic Amber	Cool		
	12GZ / BP1Z	1/2Gal - 1Liter	Plastic	ZnAc - NaOH		
	AG1U / AG1S	1 Liter	Amber Glass	Cool - H2SO4		
	BP2U / BP2S	500 mL	Plastic	FF Cool - H2SO4		
	AG2U / AG2S	500 mL	Amber Glass	Cool - H2SO4		
	BP3U / BP3C	250 mL	Plastic	FF Cool - NaOH		
	BP3H / BP3S	250 mL	Plastic	HCL - H2SO4		
	AG3U / AG3E	250 mL	Amber Glass	Cool - EDA		
	AG3S	250 mL	Amber Glass	H2SO4		
	BP4U / BP4C	125 mL	Plastic	FF Cool - NaOH		
	BP4H / BP4S	125 mL	Plastic	HCL - H2SO4		
	VG9U / VG9E / VG9H	40 mL	Glass	Cool-EDA-HCL	BOD / CBOD 48hr (Wed & Fri only) Chloramines 24hr Chlorine Dioxide 24hr Residual Chlorine 24hr Chlorophyll A (unfiltered) 48hr Dissolved Oxygen 28hr Nitrate / Nitrite / NOX 48hr Odor / pH 24hr OP (Low) / OP (High) 48hr MBAS (Foaming Agents) 48hr Turbidity / UV254 / Color 48hr	
	DG8U / DG8E / DG8H	40 mL	Amber Glass	Cool-EDA-HCL		
Containers requiring short-hold analysis (to be used when container is the same as container with non-short hold analysis)						
	BP1N / BP1U	1 Liter	Plastic	FF HNO3 - Cool		Metals*
	BP2N / BP2U	500 mL	Plastic	FF HNO3 - Cool		
	BP3N / BP3U	250 mL	Plastic	FF HNO3 - Cool		
						Hex Chrome 24hr
	AG3U	250 mL	Amber Glass	Cool		Extractions
	AG2U	500 mL	Amber Glass	Cool		
	AG24 / AG34	500 mL	Amber Glass	NH4CL		
	AG1S	1 Liter	Amber Glass	H2SO4		
	AG1U	1 Liter	Amber Glass	Cool		
	AG1H	1 Liter	Amber Glass	HCL		
	AP1S / AP1U	1 Liter	Amber Plastic	H2SO4 - Cool		
	VG9U / DG9U	40 mL	Glass Vial	Cool		
	VG9U	40 mL	Glass Vial	Cool	Semi Volatiles	
	VG9M	40 mL	Glass Vial	MCAA		
	VG9U / VG9H	40 mL	Glass Vial	Cool - HCL	Volatiles	
	WG43	40 mL	Soil Vials	Cool		
	WG20 / WG40	2 / 4 oz	Glass (Soil)	Cool		
	T	1 Liter	Tedlar Bag	Cool		
	WG9U / WG40	40 mL	Glass/plastic	Cool	Soil Cooler	
			Glass/plastic	Cool H2SO4/HNO3		
	SP5U	100 mL	Micro Bottle	Cool	Microbiology*	
						SPC/HPC 8 hr MMO-MUG (DW) 30hr
						Total MF 6 hr Fecal MF 6hr
					Fecal MPN (solid) 24 hr	
	AG1U	1 Liter	Amber Glass	Cool	Subouts	
	BP1U	1 Liter	Plastic	Cool		
	BP1N	1 Liter	Plastic	HNO3		

* All Short-hold analysis must be circled and copy of SCUR given to Laboratory section

Additional comments from front page: _____

March 22, 2010

Mr. Barry Westmark
ECT, Inc.
6300 NE 1st Avenue #100
Fort Lauderdale, FL 33334

RE: Project: 10-0096/C9 & C11
Pace Project No.: 357830

Dear Mr. Westmark:

Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,



Martha Montero

martha.montero@pacelabs.com
Project Manager

Enclosures

cc: Mr. Probas Adak, ECT, Inc.
Mark Lefebvre, ECT, Inc.

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 10-0096/C9 & C11

Pace Project No.: 357830

Minnesota Certification IDs

Tennessee Certification #: 02818
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Michigan DEQ Certification #: 9909
Maine Certification #: 2007029
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605

California Certification #: 01155CA
Arizona Certification #: AZ-0014
North Carolina Certification #: 530
North Dakota Certification #: R-036
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
New York Certification #: 11647
Washington Certification #: C754
Wisconsin Certification #: 999407970
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078

Green Bay Certification IDs

1241 Bellevue Street Green Bay, WI 54302
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
North Dakota Certification #: R-150
North Carolina Certification #: 503
California Certification #: 09268CA

New York Certification #: 11887
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04168
Kentucky Certification #: 82
Illinois Certification #: 200050
Florida/NELAP Certification #: E87948
New York Certification #: 11888

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 10-0096/C9 & C11

Pace Project No.: 357830

Lab ID	Sample ID	Matrix	Date Collected	Date Received
357830001	CSS-WCA-5	Solid	02/17/10 08:00	02/23/10 10:00
357830002	CSS-WCA-10	Solid	02/17/10 08:00	02/23/10 10:00
357830003	CSS-WCA-15	Solid	02/17/10 08:00	02/23/10 10:00
357830004	CSS-WCA-20	Solid	02/17/10 08:00	02/23/10 10:00
357830005	CSS-WCA-25	Solid	02/17/10 08:00	02/23/10 10:00
357830006	CSS-WCA-30	Solid	02/17/10 08:00	02/23/10 10:00
357830007	CSS-WCA-32	Solid	02/17/10 08:00	02/23/10 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 10-0096/C9 & C11

Pace Project No.: 357830

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
357830001	CSS-WCA-5	EPA 6020	RJS	1	PASI-M
		ASTM D2974-87	LTI	1	PASI-G
357830002	CSS-WCA-10	EPA 6020	RJS	1	PASI-M
		ASTM D2974-87	LTI	1	PASI-G
357830003	CSS-WCA-15	EPA 6020	RJS	1	PASI-M
		ASTM D2974-87	LTI	1	PASI-G
357830004	CSS-WCA-20	EPA 6020	RJS	1	PASI-M
		ASTM D2974-87	LTI	1	PASI-G
		EPA 9060 Modified	DJR	3	PASI-G
357830005	CSS-WCA-25	EPA 6020	RJS	1	PASI-M
		ASTM D2974-87	LTI	1	PASI-G
357830006	CSS-WCA-30	EPA 6020	RJS	1	PASI-M
		ASTM D2974-87	LTI	1	PASI-G
		EPA 9060 Modified	DJR	3	PASI-G
357830007	CSS-WCA-32	EPA 6020	RJS	1	PASI-M
		ASTM D2974-87	LTI	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 10-0096/C9 & C11

Pace Project No.: 357830

Method: EPA 6020

Description: 6020 MET ICPMS

Client: ECT, Inc.

Date: March 22, 2010

General Information:

7 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

Page 5 of 18

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PROJECT NARRATIVE

Project: 10-0096/C9 & C11

Pace Project No.: 357830

Method: EPA 9060 Modified

Description: Total Organic Carbon

Client: ECT, Inc.

Date: March 22, 2010

General Information:

2 samples were analyzed for EPA 9060 Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/5812

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 357830006

J(M0): Estimated Value. Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 269685)
 - Mean Total Organic Carbon
- MSD (Lab ID: 269686)
 - Mean Total Organic Carbon

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

Page 6 of 18

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ANALYTICAL RESULTS

Project: 10-0096/C9 & C11

Pace Project No.: 357830

Sample: CSS-WCA-5 **Lab ID: 357830001** Collected: 02/17/10 08:00 Received: 02/23/10 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020								
Selenium	2.8	mg/kg	0.82	0.41	20	03/01/10 09:50	03/01/10 21:54	7782-49-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	84.9	%	0.10	0.10	1		03/01/10 07:47		

ANALYTICAL RESULTS

Project: 10-0096/C9 & C11

Pace Project No.: 357830

Sample: CSS-WCA-10 **Lab ID: 357830002** Collected: 02/17/10 08:00 Received: 02/23/10 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020								
Selenium	1.2	mg/kg	0.70	0.35	20	03/01/10 09:50	03/01/10 21:42	7782-49-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	82.5	%	0.10	0.10	1		03/01/10 07:47		

ANALYTICAL RESULTS

Project: 10-0096/C9 & C11

Pace Project No.: 357830

Sample: CSS-WCA-15 **Lab ID: 357830003** Collected: 02/17/10 08:00 Received: 02/23/10 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020								
Selenium	1.4	mg/kg	0.67	0.33	20	03/01/10 09:50	03/01/10 21:50	7782-49-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	81.3	%	0.10	0.10	1		03/01/10 07:47		

ANALYTICAL RESULTS

Project: 10-0096/C9 & C11

Pace Project No.: 357830

Sample: CSS-WCA-20 **Lab ID: 357830004** Collected: 02/17/10 08:00 Received: 02/23/10 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020								
Selenium	3.4	mg/kg	1.1	0.54	20	03/01/10 09:50	03/01/10 22:32	7782-49-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	88.7	%	0.10	0.10	1		03/01/10 07:47		
Total Organic Carbon	Analytical Method: EPA 9060 Modified								
Total Organic Carbon	227000	mg/kg	50000	14000	1		03/02/10 10:35	7440-44-0	
Total Organic Carbon	252000	mg/kg	100000	28000	1		03/02/10 10:38	7440-44-0	
Mean Total Organic Carbon	236000	mg/kg	66700	18700	1		03/02/10 10:38	7440-44-0	

ANALYTICAL RESULTS

Project: 10-0096/C9 & C11

Pace Project No.: 357830

Sample: CSS-WCA-25 **Lab ID: 357830005** Collected: 02/17/10 08:00 Received: 02/23/10 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020								
Selenium	3.4	mg/kg	0.82	0.41	20	03/01/10 09:50	03/01/10 22:36	7782-49-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	84.9	%	0.10	0.10	1		03/01/10 07:47		

ANALYTICAL RESULTS

Project: 10-0096/C9 & C11

Pace Project No.: 357830

Sample: CSS-WCA-30 **Lab ID: 357830006** Collected: 02/17/10 08:00 Received: 02/23/10 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020								
Selenium	1.0	mg/kg	0.67	0.33	20	03/01/10 09:50	03/01/10 22:40	7782-49-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	81.5	%	0.10	0.10	1		03/01/10 07:47		
Total Organic Carbon	Analytical Method: EPA 9060 Modified								
Total Organic Carbon	74700	mg/kg	11100	3110	1		03/02/10 10:45	7440-44-0	
Total Organic Carbon	74300	mg/kg	12500	3500	1		03/02/10 10:52	7440-44-0	
Mean Total Organic Carbon	74500	mg/kg	11800	3290	1		03/02/10 10:52	7440-44-0	J(M0)

ANALYTICAL RESULTS

Project: 10-0096/C9 & C11

Pace Project No.: 357830

Sample: CSS-WCA-32 **Lab ID: 357830007** Collected: 02/17/10 08:00 Received: 02/23/10 10:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020								
Selenium	0.89	mg/kg	0.69	0.34	20	03/01/10 09:50	03/01/10 22:45	7782-49-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	82.1	%	0.10	0.10	1		03/01/10 07:47		

QUALITY CONTROL DATA

Project: 10-0096/C9 & C11
Pace Project No.: 357830

QC Batch: ICPM/19390 Analysis Method: EPA 6020
QC Batch Method: EPA 6020 Analysis Description: 6020 MET
Associated Lab Samples: 357830001, 357830002, 357830003, 357830004, 357830005, 357830006, 357830007

METHOD BLANK: 753349 Matrix: Solid
Associated Lab Samples: 357830001, 357830002, 357830003, 357830004, 357830005, 357830006, 357830007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Selenium	mg/kg	0.062U	0.12	03/01/10 21:34	

LABORATORY CONTROL SAMPLE: 753350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/kg	4.9	5.2	106	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 753351 753352

Parameter	Units	357830001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Selenium	mg/kg	2.8	32.5	32.5	34.9	37.4	99	106	70-130	7	20	

QUALITY CONTROL DATA

Project: 10-0096/C9 & C11
Pace Project No.: 357830

QC Batch: WETA/5812 Analysis Method: EPA 9060 Modified
QC Batch Method: EPA 9060 Modified Analysis Description: 9060 TOC Average
Associated Lab Samples: 357830004, 357830006

METHOD BLANK: 269683 Matrix: Solid
Associated Lab Samples: 357830004, 357830006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/kg	70.0U	250	03/02/10 09:55	

LABORATORY CONTROL SAMPLE: 269684

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/kg	1000	922	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 269685 269686

Parameter	Units	269685		269686		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Mean Total Organic Carbon	mg/kg	74500	80000	215000	66700	176	176	50-150	11	30	J(M0)

QUALIFIERS

Project: 10-0096/C9 & C11

Pace Project No.: 357830

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

J(M0) Estimated Value. Matrix spike recovery was outside laboratory control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 10-0096/C9 & C11

Pace Project No.: 357830

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
357830001	CSS-WCA-5	EPA 6020	ICPM/19390	EPA 6020	ICPM/7940
357830002	CSS-WCA-10	EPA 6020	ICPM/19390	EPA 6020	ICPM/7940
357830003	CSS-WCA-15	EPA 6020	ICPM/19390	EPA 6020	ICPM/7940
357830004	CSS-WCA-20	EPA 6020	ICPM/19390	EPA 6020	ICPM/7940
357830005	CSS-WCA-25	EPA 6020	ICPM/19390	EPA 6020	ICPM/7940
357830006	CSS-WCA-30	EPA 6020	ICPM/19390	EPA 6020	ICPM/7940
357830007	CSS-WCA-32	EPA 6020	ICPM/19390	EPA 6020	ICPM/7940
357830001	CSS-WCA-5	ASTM D2974-87	PMST/3663		
357830002	CSS-WCA-10	ASTM D2974-87	PMST/3663		
357830003	CSS-WCA-15	ASTM D2974-87	PMST/3663		
357830004	CSS-WCA-20	ASTM D2974-87	PMST/3663		
357830005	CSS-WCA-25	ASTM D2974-87	PMST/3663		
357830006	CSS-WCA-30	ASTM D2974-87	PMST/3663		
357830007	CSS-WCA-32	ASTM D2974-87	PMST/3663		
357830004	CSS-WCA-20	EPA 9060 Modified	WETA/5812		
357830004	CSS-WCA-20	EPA 9060 Modified	WETA/5813		
357830006	CSS-WCA-30	EPA 9060 Modified	WETA/5812		
357830006	CSS-WCA-30	EPA 9060 Modified	WETA/5813		



Technical Report for

ECT

C9/C11 Selenium; Weston, FL

10-0096

Accutest Job Number: F71797

Sampling Dates: 02/17/10 - 02/26/10

Report to:

ECT


padak@ectinc.com

ATTN: Probas Adak

Total number of pages in report: **38**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Sue Bell 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Test results relate only to samples analyzed.



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Sample Summary

ECT

Job No: F71797

C9/C11 Selenium; Weston, FL
Project No: 10-0096

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F71797-1	02/17/10	10:54 CAR	03/04/10	SO	Soil	CSS-WCA-5D
F71797-2	02/17/10	12:52 CAR	03/04/10	SO	Soil	CSS-WCA-10D
F71797-3	02/17/10	14:37 CAR	03/04/10	SO	Soil	CSS-WCA-15D
F71797-4	02/17/10	16:10 CAR	03/04/10	SO	Soil	CSS-WCA-20D
F71797-5	02/17/10	17:53 CAR	03/04/10	SO	Soil	CSS-WCA-25D
F71797-6	02/17/10	08:02 CAR	03/04/10	SO	Soil	CSS-WCA-30D
F71797-7	02/17/10	08:42 CAR	03/04/10	SO	Soil	CSS-WCA-32D
F71797-8	02/26/10	13:20 CAR	03/04/10	SO	Soil	CSS-C11-5D
F71797-9	02/26/10	14:55 CAR	03/04/10	SO	Soil	CSS-C11-15D
F71797-10	02/26/10	15:30 CAR	03/04/10	SO	Soil	CSS-C11-17D

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: CSS-WCA-5D	Date Sampled: 02/17/10
Lab Sample ID: F71797-1	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 19.2
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	2.6	1.3	0.15	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-10D	Date Sampled: 02/17/10
Lab Sample ID: F71797-2	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 22.1
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.65 I	1.1	0.13	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-15D	Date Sampled: 02/17/10
Lab Sample ID: F71797-3	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 20.5
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.55 I	1.2	0.14	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-20D	Date Sampled: 02/17/10
Lab Sample ID: F71797-4	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 19.4
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	2.4	1.3	0.15	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-20D	Date Sampled: 02/17/10
Lab Sample ID: F71797-4	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 19.4
Project: C9/C11 Selenium; Weston, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	19.4			%	1	03/11/10 12:53	LT	SM19 2540B M
Total Organic Carbon	30500	5200	2600	mg/kg	1	03/16/10 12:37	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-25D	Date Sampled: 02/17/10
Lab Sample ID: F71797-5	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 19.9
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	2.3	1.3	0.15	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-30D	Date Sampled: 02/17/10
Lab Sample ID: F71797-6	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 22.1
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.65 I	1.1	0.13	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-30D	Date Sampled: 02/17/10
Lab Sample ID: F71797-6	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 22.1
Project: C9/C11 Selenium; Weston, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	22.1			%	1	03/11/10 12:53	LT	SM19 2540B M
Total Organic Carbon	22600	4500	2300	mg/kg	1	03/16/10 12:57	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-WCA-32D	Date Sampled: 02/17/10
Lab Sample ID: F71797-7	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 21.9
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Selenium ^a	0.56 I	1.1	0.13	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-5D	Date Sampled: 02/26/10
Lab Sample ID: F71797-8	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 55.8
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	22.8	0.45	0.034	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	1.5	0.45	0.052	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51802

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-15D	Date Sampled: 02/26/10
Lab Sample ID: F71797-9	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 61.1
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	15.1	0.41	0.031	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^b	0.80 I	0.82	0.095	mg/kg	10	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51801

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

(b) Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis). Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-17D	Date Sampled: 02/26/10
Lab Sample ID: F71797-10	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 72.4
Project: C9/C11 Selenium; Weston, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium ^a	12.5	0.34	0.026	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²
Selenium ^a	0.24 I	0.34	0.039	mg/kg	5	03/11/10	03/12/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA23965

(2) Prep QC Batch: N:MP51801

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CSS-C11-17D	Date Sampled: 02/26/10
Lab Sample ID: F71797-10	Date Received: 03/04/10
Matrix: SO - Soil	Percent Solids: 72.4
Project: C9/C11 Selenium; Weston, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Percent	72.4			%	1	03/11/10 12:53	LT	SM19 2540B M
Total Organic Carbon	9310	1400	690	mg/kg	1	03/16/10 13:20	SD	SW846 9060A MOD

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

F71797



ACCUTEST

CHAIN OF CUSTODY

4405 Vineland Rd., Suite C15
Orlando, FL 32811
407.425.6700, fax 407.425.0707

Accutest Job #: _____
Accutest Control #: _____

Client Information			Facility Information				Analytical Information																		
Name: ECT			Project Name: C9 AND C11																						
Address: 6300 NE 1ST AVE			Location: FL																						
City: FT LAUDERDALE State: FL Zip: 33334			Project No.: 10-0096																						
Send Report to: Phone #: 9547710444			FAX #: _____																						
Field ID / Point of Collection	Collection			Matrix	# of bottles	Preservation					Seal (By 6020)	TOC	DB												
	Date	Time	Sampled By			ice	NaOH	NaNO2	NaNO3	NaOH/NaNO2				None											
1 CSS-WCA-5D	2/17/2010	1054	CAF/VN	SO	1						X														
2 CSS-WCA-10D	2/17/2010	1252	CAF/VN	SO	1						X														
3 CSS-WCA-15D	2/17/2010	1437	CAF/VN	SO	1						X														
4 CSS-WCA-20D	2/17/2010	1610	CAF/VN	SO	2						X	X													
5 CSS-WCA-25D	2/17/2010	1753	CAF/VN	SO	1						X														
6 CSS-WCA-30D	2/17/2010	802	CAF/VN	SO	2						X	X													
7 CSS-WCA-32D	2/17/2010	642	CAF/VN	SO	1						X														
8 CSS-C11-5D	2/26/2010	1320	PA	SO	1						X		X												
9 CSS-C11-15D	2/26/2010	1455	PA	SO	1						X		X												
10 CSS-C11-17D	2/26/2010	1530	PA	SO	1						X	X	X												

Turnaround Information			Data Deliverable Information				Comments / Remarks									
<input type="checkbox"/> 14 Day Standard <input type="checkbox"/> 7 days <input type="checkbox"/> 24 hour <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data Data unless previously approved.			Approved By: _____ <input type="checkbox"/> NJ Reduced <input type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms									

Sample Custody must be documented below each time samples change possession, including courier delivery.											
Relinquished by Sampler:	Date/Time:	Received By:	Date/Time:	Relinquished by Sampler:	Date/Time:	Received By:	Date/Time:	Relinquished by Sampler:	Date/Time:	Received By:	Date/Time:
1		1		2		2		3		3	
2		3		4		4		5		5	

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F71797: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F71797 CLIENT: ECT PROJECT: C9 and 11
 DATE/TIME RECEIVED: 3/4/10 9:00 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 2
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
 AIRBILL NUMBERS: 98 46 4620 3401

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET
- WET ICE PRESENT

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 0
 NUMBER OF 5035 FIELD KITS ? 0
 NUMBER OR LAB FILTERED METALS ? 0

TEMPERATURE INFORMATION

IR THERM ID I 07 CORR. FACTOR +0
 OBSERVED TEMPS: 3.2 2.0
 CORRECTED TEMPS: 3.2 2.0

SAMPLE INFORMATION

- SAMPLE LABELS PRESENT ON ALL BOTTLES
- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- % SOLIDS JAR NOT RECEIVED
- 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: All samples are missing A "D" at the end of each ID serial for correct IDs.

TECHNICIAN SIGNATURE/DATE [Signature] 3/4/10 REVIEWER SIGNATURE/DATE [Signature] 03-04-10

NF 10/09

RECEIPT CONFIRMATION 100609 (2).xls

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General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F71797
Account: ECTFLLAU - ECT
Project: C9/C11 Selenium; Weston, FL

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Total Organic Carbon	GP14492/GN38879	1000	0.0	mg/kg	20000	21300	106.5	88-114%

Associated Samples:

Batch GP14492: F71797-10, F71797-4, F71797-6

(*) Outside of QC limits

4.1
4

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F71797
Account: ECTFLLAU - ECT
Project: C9/C11 Selenium; Weston, FL

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Percent	GN38780	F71947-1	%	93.9	93.5	0.4	0-10%
Total Organic Carbon	GP14492/GN38879	F71796-5	mg/kg	33000	26600	21.5	0-36%

Associated Samples:

Batch GN38780: F71797-1, F71797-10, F71797-2, F71797-3, F71797-4, F71797-5, F71797-6, F71797-7, F71797-9
Batch GP14492: F71797-10, F71797-4, F71797-6

(*) Outside of QC limits

4.2
4

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F71797
Account: ECTFLLAU - ECT
Project: C9/C11 Selenium; Weston, FL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Total Organic Carbon	GP14492/GN38879	F71796-5	mg/kg	33000	55200	75500	76.9N(a)	88-114%

Associated Samples:

Batch GP14492: F71797-10, F71797-4, F71797-6

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

4.3
4



Misc. Forms

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Custody Documents and Other Forms

(Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: F71797
Date / Time Received: 3/9/2010
Project:

Client:

Delivery Method:

No. Coolers: 1

Airbill #'s:

Immediate Client Services Action Required: No

Client Service Action Required at Login: No

<u>Cooler Security</u>	<u>Y or N</u>		<u>Y or N</u>	<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. SmpI Dates/Time OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	Infrared gun	
3. Cooler media:	Ice (bag)	

<u>Quality Control Preservation</u>	<u>Y or N</u>		<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

<u>Sample Integrity - Instructions</u>	<u>Y or N</u>		<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

5.1
5



Metals Analysis

QC Data Summaries

(Accutest New Jersey)

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F71797
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51801
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 03/11/10 03/11/10

Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	25	.34	.52				
Antimony	0.25	.019	.022				
Arsenic	0.50	.074	.11				
Barium	0.50	.013	.038	0.25	<0.50	0.24	<0.50
Beryllium	0.25	.007	.03				
Boron	2.5	.29	.25				
Cadmium	0.25	.011	.016				
Calcium	130	3	3.1				
Chromium	2.0	.038	.29				
Cobalt	0.25	.0015	.016				
Copper	2.0	.13	.036				
Iron	25	.68	1.9				
Lead	0.25	.003	.012				
Magnesium	130	.27	1.4				
Manganese	0.25	.006	.02				
Molybdenum	0.50	.024	.096				
Nickel	2.0	.095	.026				
Potassium	130	1.4	3.9				
Selenium	0.50	.039	.058	0.038	<0.50	0.085	<0.50
Silver	1.0	.01	.022				
Sodium	130	.56	1.3				
Strontium	0.50	.004	.0082				
Thallium	0.25	.002	.0051				
Tin	0.50	.025					
Titanium	0.50	.027	.27				
Uranium	0.50						
Vanadium	2.0	.27	.79				
Zinc	2.0	.39	.91				

Associated samples MP51801: F71797-9, F71797-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F71797
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51801
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/11/10

Metal	F71678-56		SpikeLot		QC Limits
	Original MS		MPIRS1	% Rec	
Aluminum					
Antimony					
Arsenic					
Barium	52.4	433	387	98.3	75-125
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium	2.8	362	387	92.8	69-125
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP51801: F71797-9, F71797-10

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

6.1.2
 6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F71797
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51801
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/11/10

Metal	F71678-56 Original MSD		SpikeLot MPIRS1 % Rec		MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium	52.4	452	389	102.7	4.3	20
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	2.8	370	389	94.3	2.2	20
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP51801: F71797-9, F71797-10

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F71797
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51801
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/11/10 03/11/10

Metal	BSP Result	Spikelot MPIRS1	% Rec	QC Limits	BSP Result	Spikelot MPIRS1	% Rec	QC Limits
Aluminum								
Antimony								
Arsenic								
Barium	429	400	107.3	80-120	467	400	116.8	80-120
Beryllium								
Boron								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Molybdenum								
Nickel								
Potassium								
Selenium	447	400	111.8	80-120	474	400	118.5	80-120
Silver								
Sodium								
Strontium								
Thallium								
Tin								
Titanium								
Uranium								
Vanadium								
Zinc								

Associated samples MP51801: F71797-9, F71797-10

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F71797
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51801
 Matrix Type: SOLID

Methods: SW846 6020
 Units: ug/l

Prep Date: 03/11/10

Metal	F71678-56		QC	
	Original	SDL 5:25	%DIF	Limits

Aluminum				
Antimony				
Arsenic				
Barium	542	609	12.4*(a)	0-10
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	28.7	33.1	15.2*(a)	0-10
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP51801: F71797-9, F71797-10

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested
 (a) Serial dilution indicates possible matrix interference.

6.1.4
 6

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F71797
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51802
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 03/11/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.14	.21		
Antimony	0.10	.0076	.0086		
Arsenic	0.20	.03	.044		
Barium	0.20	.005	.015	0.066	<0.20
Beryllium	0.10	.0028	.012		
Boron	1.0	.11	.1		
Cadmium	0.10	.0044	.0063		
Calcium	50	1.2	1.2		
Chromium	0.80	.015	.12		
Cobalt	0.10	.0006	.0063		
Copper	0.80	.051	.015		
Iron	10	.27	.77		
Lead	0.10	.0012	.0046		
Magnesium	50	.11	.56		
Manganese	0.10	.0024	.0078		
Molybdenum	0.20	.0096	.038		
Nickel	0.80	.038	.01		
Potassium	50	.56	1.5		
Selenium	0.20	.016	.023	0.017	<0.20
Silver	0.40	.004	.0089		
Sodium	50	.22	.52		
Strontium	0.20	.0016	.0033		
Thallium	0.10	.0008	.002		
Tin	0.20	.0098			
Titanium	0.20	.011	.11		
Uranium	0.20				
Vanadium	0.80	.11	.32		
Zinc	0.80	.16	.37		

Associated samples MP51802: F71797-1, F71797-2, F71797-3, F71797-4, F71797-5, F71797-6, F71797-7, F71797-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F71797
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51802
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/11/10

Metal	F71797-2 Original MS		SpikeLot MPIRS1	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic					
Barium	81.3	984	883	102.2	75-125
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium	0.65	908	883	102.8	69-125
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP51802: F71797-1, F71797-2, F71797-3, F71797-4, F71797-5, F71797-6, F71797-7, F71797-8

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F71797
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51802
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/11/10

Metal	F71797-2 Original MSD		SpikeLot MPIRS1 % Rec		MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium	81.3	1100	923	110.3	11.1	20
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	0.65	1020	923	110.4	11.6	20
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP51802: F71797-1, F71797-2, F71797-3, F71797-4, F71797-5, F71797-6, F71797-7, F71797-8

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F71797
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51802
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 03/11/10

Metal	BSP Result	Spikelot MPIRS1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium	438	400	109.5	80-120
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	444	400	111.0	80-120
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP51802: F71797-1, F71797-2, F71797-3, F71797-4, F71797-5, F71797-6, F71797-7, F71797-8

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F71797
 Account: ALSE - Accutest Laboratories Southeast, Inc.
 Project: ECTFLLAU: C9/C11 Selenium; Weston, FL

QC Batch ID: MP51802
 Matrix Type: SOLID

Methods: SW846 6020
 Units: ug/l

Prep Date: 03/11/10

Metal	F71797-2		QC	
	Original	SDL 5:25	%DIF	Limits
Aluminum				
Antimony				
Arsenic				
Barium	368	368	0.1	0-10
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	2.93	6.16	110.6(a)	0-10
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP51802: F71797-1, F71797-2, F71797-3, F71797-4, F71797-5, F71797-6, F71797-7, F71797-8

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

APPENDIX B

ADaPT ERROR CHECKS

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-WCA-10
 Sample Date : 02/17/2010
 Lab Sample ID: 357830002

Lab Report Batch : 357830
 Analysis Type: RES (TOT)

Lab ID : E87605
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 20														
Selenium	TOT	1.2	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-WCA-15
 Sample Date : 02/17/2010
 Lab Sample ID: 357830003

Lab Report Batch : 357830
 Analysis Type: RES (TOT)

Lab ID : E87605
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 20														
Selenium	TOT	1.4	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-WCA-20
 Sample Date : 02/17/2010
 Lab Sample ID: 357830004

Lab Report Batch : 357830
 Analysis Type: RES (TOT)

Lab ID : E87605
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 20														
Selenium	TOT	3.4	mg/kg		YES											
Analysis Method : EPA 9060M		Dilution: 1														
Carbon- Total Organic	TOT	236000	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-WCA-25
 Sample Date : 02/17/2010
 Lab Sample ID: 357830005

Lab Report Batch : 357830
 Analysis Type: RES (TOT)

Lab ID : E87605
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 20														
Selenium	TOT	3.4	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-WCA-30
 Sample Date : 02/17/2010
 Lab Sample ID: 357830006

Lab Report Batch : 357830
 Analysis Type: RES (TOT)

Lab ID : E87605
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 20														
Selenium	TOT	1	mg/kg		YES											
Analysis Method : EPA 9060M		Dilution: 1														
Carbon- Total Organic	TOT	74500	mg/kg	J	YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-WCA-32
 Sample Date : 02/17/2010
 Lab Sample ID: 357830007

Lab Report Batch : 357830
 Analysis Type: RES (TOT)

Lab ID : E87605
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 20														
Selenium	TOT	0.89	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-WCA-5
 Sample Date : 02/17/2010
 Lab Sample ID: 357830001

Lab Report Batch : 357830
 Analysis Type: RES (TOT)

Lab ID : E87605
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 20														
Selenium	TOT	2.8	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : 5035041001
 Sample Date : 02/24/2010
 Lab Sample ID: 5035041001

Lab Report Batch : 358199
 Analysis Type: RES (TOT)

Lab ID : E87605
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 20														
Barium	TOT	21.3	mg/kg		YES											
Selenium	TOT	2.2	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-15
 Sample Date : 02/26/2010
 Lab Sample ID: 358199002

Lab Report Batch : 358199
 Analysis Type: RES (TOT)

Lab ID : E87605
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 20														
Barium	TOT	11.2	mg/kg		YES											
Selenium	TOT	0.88	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-17
 Sample Date : 02/26/2010
 Lab Sample ID: 358199003

Lab Report Batch : 358199
 Analysis Type: RES (TOT)

Lab ID : E87605
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 20														
Barium	TOT	9.6	mg/kg		YES											
Selenium	TOT	0.34	mg/kg	I	YES											
Analysis Method : EPA 9060M		Dilution: 1														
Carbon- Total Organic	TOT	91400	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-5
 Sample Date : 02/26/2010
 Lab Sample ID: 358199001

Lab Report Batch : 358199
 Analysis Type: RES (TOT)

Lab ID : E87605
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 20														
Barium	TOT	29.9	mg/kg		YES											
Selenium	TOT	2.8	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-11
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-9

Lab Report Batch : F71708
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Det Surr	Field Limit	Replicate QC	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00													
Barium	TOT	36.5	mg/kg		YES										
Selenium	TOT	0.66	mg/kg		YES										

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-13
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-10

Lab Report Batch : F71708
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	64.5	mg/kg		YES											
Selenium	TOT	3.4	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-14
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-11

Lab Report Batch : F71708
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	19.2	mg/kg		YES											
Selenium	TOT	0.63	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-15
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-12

Lab Report Batch : F71708
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	10.5	mg/kg		YES											
Selenium	TOT	0.46	mg/kg	I	YES											
Analysis Method : EPA 9060M		Dilution: 1.00														
Carbon- Total Organic	TOT	9620	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-16
 Sample Date : 02/26/2010
 Lab Sample ID : F71708-13

Lab Report Batch : F71708
 Analysis Type : RE (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Det Surr	Field Limit	QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	0.67	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-16
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-13

Lab Report Batch : F71708
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Det Surr	Field Limit	QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	18.1	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-17
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-14

Lab Report Batch : F71708
 Analysis Type: *RE (TOT)*

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Det Surr	Field Limit	QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	0.33	mg/kg	I	YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-17
 Sample Date : 02/26/2010
 Lab Sample ID : F71708-14

Lab Report Batch : F71708
 Analysis Type : RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Det Surr	Field Limit	QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	11.0	mg/kg		YES											
Analysis Method : EPA 9060M		Dilution: 1.00														
Carbon- Total Organic	TOT	9000	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-2
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-1

Lab Report Batch : F71708
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	22.0	mg/kg		YES											
Selenium	TOT	0.95	mg/kg		YES											
Analysis Method : EPA 9060M		Dilution: 1.00														
Carbon- Total Organic	TOT	12800	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-22
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-15

Lab Report Batch : F71708
 Analysis Type: *RE (TOT)*

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	0.17	mg/kg	I	YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-22
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-15

Lab Report Batch : F71708
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	12.3	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-23
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-16

Lab Report Batch : F71708
 Analysis Type: *RE (TOT)*

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Det Surr	Field Limit	QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	0.20	mg/kg	I	YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-23
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-16

Lab Report Batch : F71708
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Det Surr	Field Limit	QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	12.9	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-24
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-17

Lab Report Batch : F71708
 Analysis Type: *RE (TOT)*

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Det Surr	Field Limit	QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	0.22	mg/kg	I	YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-24
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-17

Lab Report Batch : F71708
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	11.9	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-3
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-2

Lab Report Batch : F71708
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	24.2	mg/kg		YES											
Selenium	TOT	1.3	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-32
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-18

Lab Report Batch : F71708
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	17.4	mg/kg		YES											
Selenium	TOT	0.16	mg/kg	I	YES											
Analysis Method : EPA 9060M		Dilution: 1.00														
Carbon- Total Organic	TOT	9540	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-4
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-3

Lab Report Batch : F71708
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	55.6	mg/kg		YES											
Selenium	TOT	2.0	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-5
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-4

Lab Report Batch : F71708
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	34.1	mg/kg		YES											
Selenium	TOT	2.0	mg/kg		YES											
Analysis Method : EPA 9060M		Dilution: 1.00														
Carbon- Total Organic	TOT	21800	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-6
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-5

Lab Report Batch : F71708
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	50.5	mg/kg		YES											
Selenium	TOT	2.4	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-7
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-6

Lab Report Batch : F71708
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	4.9	mg/kg		YES											
Selenium	TOT	0.12	mg/kg	I	YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-8
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-7

Lab Report Batch : F71708
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	33.0	mg/kg		YES											
Selenium	TOT	0.55	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-9
 Sample Date : 02/26/2010
 Lab Sample ID: F71708-8

Lab Report Batch : F71708
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date : pa 05/10/2010

Approved By / Date : pa 5/10/2010

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	29.2	mg/kg		YES											
Selenium	TOT	0.41	mg/kg	I	YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-20D
 Sample Date : 02/23/2010
 Lab Sample ID: F71796-8

Lab Report Batch : F71796
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	4.4	mg/kg		YES											
Selenium	TOT	0.072	mg/kg	I	YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-25D

Lab Report Batch : F71796

Lab ID : E83510

Sample Date : 02/23/2010

Analysis Type: RES (TOT)

Sample Matrix : SOLID

Lab Sample ID: F71796-9

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Det Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	46.4	mg/kg		YES											
Selenium	TOT	3.2	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-30D
 Sample Date : 02/23/2010
 Lab Sample ID: F71796-11

Lab Report Batch : F71796
 Analysis Type: *RE (TOT)*

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	3.4	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-30D
 Sample Date : 02/23/2010
 Lab Sample ID: F71796-11

Lab Report Batch : F71796
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	65.6	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-34D
 Sample Date : 02/23/2010
 Lab Sample ID: F71796-10

Lab Report Batch : F71796
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	71.2	mg/kg		YES											
Selenium	TOT	5.9	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C9-10D

Lab Report Batch : F71796

Lab ID : E83510

Sample Date : 02/24/2010

Analysis Type: RES (TOT)

Sample Matrix : SOLID

Lab Sample ID: F71796-1

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	0.059	mg/kg	I	YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C9-15D

Lab Report Batch : F71796

Lab ID : E83510

Sample Date : 02/24/2010

Analysis Type: RES (TOT)

Sample Matrix : SOLID

Lab Sample ID: F71796-2

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	0.48	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C9-20D

Lab Report Batch : F71796

Lab ID : E83510

Sample Date : 02/24/2010

Analysis Type: RES (TOT)

Sample Matrix : SOLID

Lab Sample ID: F71796-3

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	0.080	mg/kg	I	YES											
Analysis Method : EPA 9060M		Dilution: 1.00														
Carbon- Total Organic	TOT	17200	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C9-25D

Lab Report Batch : F71796

Lab ID : E83510

Sample Date : 02/24/2010

Analysis Type: RES (TOT)

Sample Matrix : SOLID

Lab Sample ID: F71796-4

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	1.9	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C9-30D

Lab Report Batch : F71796

Lab ID : E83510

Sample Date : 02/24/2010

Analysis Type: RES (TOT)

Sample Matrix : SOLID

Lab Sample ID: F71796-5

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Det Surr	Field Limit	QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	2.1	mg/kg		YES											
Analysis Method : EPA 9060M		Dilution: 1.00														
Carbon- Total Organic	TOT	33000	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C9-35D
 Sample Date : 02/24/2010
 Lab Sample ID: F71796-6

Lab Report Batch : F71796
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	2.0	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C9-40D

Lab Report Batch : F71796

Lab ID : E83510

Sample Date : 02/25/2010

Analysis Type: RES (TOT)

Sample Matrix : SOLID

Lab Sample ID: F71796-7

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	3.5	mg/kg		YES											
Analysis Method : EPA 9060M		Dilution: 1.00														
Carbon- Total Organic	TOT	31000	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C9-5D
 Sample Date : 02/24/2010
 Lab Sample ID: F71796-12

Lab Report Batch : F71796
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	4.6	mg/kg		YES											
Analysis Method : EPA 9060M		Dilution: 1.00														
Carbon- Total Organic	TOT	39200	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-15D
 Sample Date : 02/26/2010
 Lab Sample ID: F71797-9

Lab Report Batch : F71797
 Analysis Type: DL (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 10.00														
Selenium	TOT	0.80	mg/kg	I	YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-15D
 Sample Date : 02/26/2010
 Lab Sample ID: F71797-9

Lab Report Batch : F71797
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	15.1	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-17D
 Sample Date : 02/26/2010
 Lab Sample ID: F71797-10

Lab Report Batch : F71797
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	12.5	mg/kg		YES											
Selenium	TOT	0.24	mg/kg	I	YES											
Analysis Method : EPA 9060M		Dilution: 1.00														
Carbon- Total Organic	TOT	9310	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-C11-5D
 Sample Date : 02/26/2010
 Lab Sample ID: F71797-8

Lab Report Batch : F71797
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Barium	TOT	22.8	mg/kg		YES											
Selenium	TOT	1.5	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-WCA-10D
 Sample Date : 02/17/2010
 Lab Sample ID: F71797-2

Lab Report Batch : F71797
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	0.65	mg/kg	I	YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-WCA-15D

Lab Report Batch : F71797

Lab ID : E83510

Sample Date : 02/17/2010

Analysis Type: RES (TOT)

Sample Matrix : SOLID

Lab Sample ID: F71797-3

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	0.55	mg/kg	I	YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-WCA-20D

Lab Report Batch : F71797

Lab ID : E83510

Sample Date : 02/17/2010

Analysis Type: RES (TOT)

Sample Matrix : SOLID

Lab Sample ID: F71797-4

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	2.4	mg/kg		YES											
Analysis Method : EPA 9060M		Dilution: 1.00														
Carbon- Total Organic	TOT	30500	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-WCA-25D
 Sample Date : 02/17/2010
 Lab Sample ID: F71797-5

Lab Report Batch : F71797
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	2.3	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-WCA-30D
 Sample Date : 02/17/2010
 Lab Sample ID: F71797-6

Lab Report Batch : F71797
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	0.65	mg/kg	I	YES											
Analysis Method : EPA 9060M		Dilution: 1.00														
Carbon- Total Organic	TOT	22600	mg/kg		YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-WCA-32D
 Sample Date : 02/17/2010
 Lab Sample ID: F71797-7

Lab Report Batch : F71797
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	0.56	mg/kg	I	YES											

Sample Qualification Report with Reason Codes (All Results sorted by Client Sample ID)

Client Sample ID : CSS-WCA-5D
 Sample Date : 02/17/2010
 Lab Sample ID: F71797-1

Lab Report Batch : F71797
 Analysis Type: RES (TOT)

Lab ID : E83510
 Sample Matrix : SOLID

Reviewed By / Date :

Approved By / Date :

Analyte Name	Total or Diss.	Result	Result Units	Lab Quals	Reportable Result	Overall Val Qual	HT	MB	LCS	MS	Lab Dup	Surr	Det Limit	Field QC	Replicate RSD	Reason Codes
Analysis Method : EPA 6020		Dilution: 5.00														
Selenium	TOT	2.6	mg/kg		YES											

APPENDIX C
UCL CALCULATIONS

Summary Statistics for

Number of Samples	34
Number of Censored Data	4
Minimum	0.0465
Maximum	3
Mean	1.121662
Median	1.05
Standard Deviation	0.775298
Variance	0.601087
Coefficient of Variation	0.691205
Skewness	0.413915

95% UCL (Assuming Normal Data)

Student's-t	1.346682
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95% UCL (Adjusted for Skewness)

Adjusted-CLT	1.350472
Modified-t	1.348255

95% Non-parametric UCL

CLT	1.340385
Jackknife	NA
Standard Bootstrap	1.305281
Bootstrap-t	1.378995
Chebyshev (Mean, Std)	1.701245

Summary Statistics for ln()

Minimum	-3.0683
Maximum	1.098612
Mean	-0.31739
Standard Deviation	1.174892
Variance	1.380371

Goodness-of-Fit Results

Distribution Recommended	Normal
Distribution Used	Normal

Estimates Assuming Lognormal Distribution

MLE Mean	1.451785
MLE Standard Deviation	2.504645
MLE Median	0.728045
MLE Coefficient of Variation	1.725218

MVUE Estimate of Mean	1.39955
MVUE Estimate of Std. Dev.	2.117503
MVUE Estimate of SE	0.357257
MVUE Coefficient of Variation	1.512988

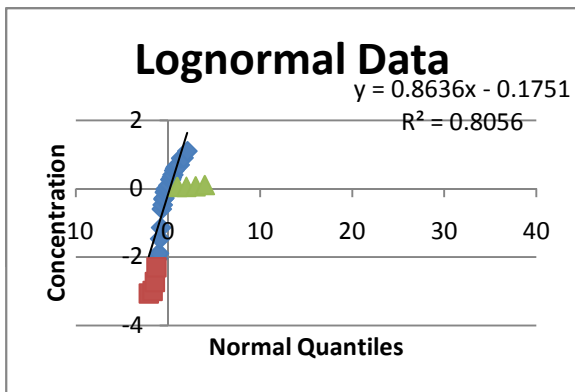
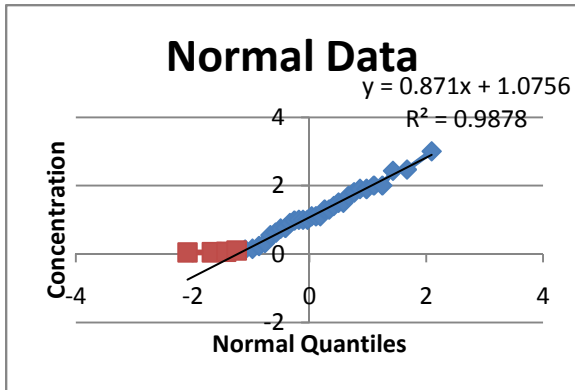
UCL Assuming Lognormal Distribution

95% H-UCL	2.495259
95% Chebyshev (MVUE) UCL	2.956798
99% Chebyshev (MVUE) UCL	4.954222

FDEP Recommended UCL to Use:
1.346682

FDEP UCL Calculator Version 1.0

Goodness-of-fit test results



Shapiro-Francia Results (Adjust for Censoring)

SF for Normal Distribution	0
SF for LogNormal Distribution	0
Shapiro-Francia critical value for $p < 0.05$	0.963484

Test stat > critical value indicates a reasonable fit

Shapiro-Wilk's Test Results for All Data (BDL replaced with 1/2 DL)

SW test statistic for Normal Distribution	0.951
SW test statistic for LogNormal Distribution	0.840
Shapiro-Wilk's critical value for $p < 0.05$	0.933

Test stat > critical value indicates a reasonable fit

**Based on the results of the Shapiro-Wilk's test
Distribution is best described as: Normal**

Normal

Summary Statistics for

Number of Samples	34
Number of Censored Data	1
Minimum	0.034
Maximum	3.8
Mean	1.880529
Median	2.015
Standard Deviation	1.05242
Variance	1.107588
Coefficient of Variation	0.55964
Skewness	-0.27787

95% UCL (Assuming Normal Data)

Student's-t	2.185981
-------------	----------

95% UCL (Adjusted for Skewness)

Adjusted-CLT	2.168241
Modified-t	2.184548

95% Non-parametric UCL

CLT	2.177433
Jackknife	NA
Standard Bootstrap	2.236621
Bootstrap-t	2.117131
Chebyshev (Mean, Std)	2.667279

Summary Statistics for ln()

Minimum	-3.38139
Maximum	1.335001
Mean	0.292466
Standard Deviation	1.094252
Variance	1.197388

Goodness-of-Fit Results

Distribution Recommended	Normal
Distribution Used	Normal

Estimates Assuming Lognormal Distribution

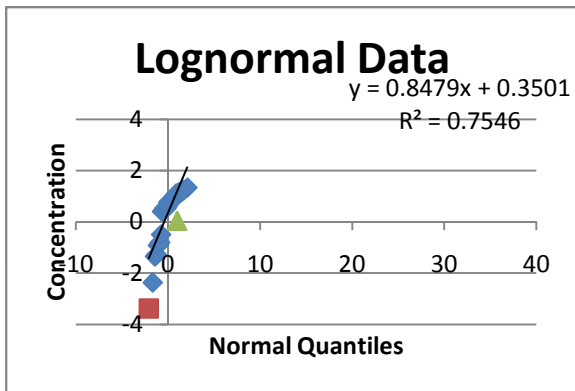
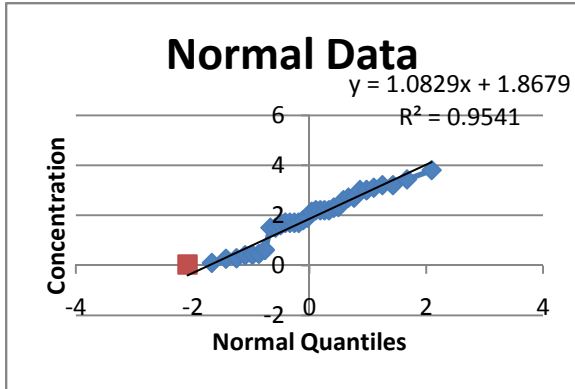
MLE Mean	2.437955
MLE Standard Deviation	3.706539
MLE Median	1.339727
MLE Coefficient of Variation	1.520347
MVUE Estimate of Mean	2.371464
MVUE Estimate of Std. Dev.	3.26051
MVUE Estimate of SE	0.532247
MVUE Coefficient of Variation	1.374893

UCL Assuming Lognormal Distribution

95% H-UCL	3.961061
95% Chebyshev (MVUE) UCL	4.691475
99% Chebyshev (MVUE) UCL	7.667267

FDEP Recommended UCL to Use:
2.185981

FDEP UCL Calculator Version 1.0
 Goodness-of-fit test results



Shapiro-Francia Results (Adjust for Censoring)

SF for Normal Distribution	0
SF for LogNormal Distribution	0
Shapiro-Francia critical value for $p < 0.05$	0.966138

Test stat > critical value indicates a reasonable fit

Shapiro-Wilk's Test Results for All Data (BDL replaced with 1/2 DL)

SW test statistic for Normal Distribution	0.939
SW test statistic for LogNormal Distribution	0.767
Shapiro-Wilk's critical value for $p < 0.05$	0.933

Test stat > critical value indicates a reasonable fit

**Based on the results of the Shapiro-Wilk's test
 Distribution is best described as: Normal**

Normal

Summary Statistics for

Number of Samples	32
Number of Censored Data	0
Minimum	4.7
Maximum	71.4
Mean	29.59531
Median	28.825
Standard Deviation	16.33795
Variance	266.9286
Coefficient of Variation	0.552045
Skewness	0.765291

95% UCL (Assuming Normal Data)

Student's-t	34.49226
-------------	----------

95% UCL (Adjusted for Skewness)

Adjusted-CLT	34.76391
Modified-t	34.55738

95% Non-parametric UCL

CLT	34.34635
Jackknife	NA
Standard Bootstrap	32.81659
Bootstrap-t	37.42817
Chebyshev (Mean, Std)	42.18484

Summary Statistics for In()

Minimum	1.547562
Maximum	4.268298
Mean	3.213338
Standard Deviation	0.651719
Variance	0.424737

Goodness-of-Fit Results

Distribution Recommended	Lognormal
Distribution Used	Lognormal

Estimates Assuming Lognormal Distribution

MLE Mean	30.74435
MLE Standard Deviation	22.36509
MLE Median	24.86193
MLE Coefficient of Variation	0.727454

MVUE Estimate of Mean	30.50245
MVUE Estimate of Std. Dev.	21.55053
MVUE Estimate of SE	3.772158
MVUE Coefficient of Variation	0.706518

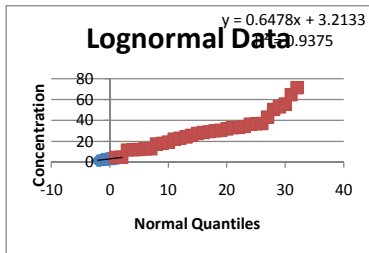
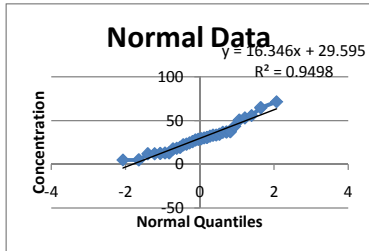
UCL Assuming Lognormal Distribution

95% H-UCL	39.24075
95% Chebyshev (MVUE) UCL	46.9449
99% Chebyshev (MVUE) UCL	68.03504

FDEP Recommended UCL to Use:
39.24075

FDEP UCL Calculator Version 1.0

Goodness-of-fit test results



Shapiro-Francia Results (Adjust for Censoring)

SF for Normal Distribution	0
SF for LogNormal Distribution	0
Shapiro-Francia critical value for $p < 0.05$	NA

Test stat > critical value indicates a reasonable fit

Shapiro-Wilk's Test Results for All Data (BDL replaced with 1/2 DL)

SW test statistic for Normal Distribution	0.945
SW test statistic for LogNormal Distribution	0.935
Shapiro-Wilk's critical value for $p < 0.05$	0.93

Test stat > critical value indicates a reasonable fit

**Based on the results of the Shapiro-Wilk's test
 Distribution is best described as: Lognormal**

Lognormal

Summary Statistics for

Number of Samples	32
Number of Censored Data	0
Minimum	0.072
Maximum	5.87
Mean	1.578813
Median	1.5
Standard Deviation	1.362044
Variance	1.855165
Coefficient of Variation	0.862702
Skewness	1.241182

95% UCL (Assuming Normal Data)

Student's-t	1.987056
-------------	----------

95% UCL (Adjusted for Skewness)

Adjusted-CLT	2.031349
Modified-t	1.995861

95% Non-parametric UCL

CLT	1.974892
Jackknife	NA
Standard Bootstrap	1.836711
Bootstrap-t	2.220848
Chebyshev (Mean, Std)	2.628363

Summary Statistics for ln()

Minimum	-2.63109
Maximum	1.769855
Mean	-0.03047
Standard Deviation	1.151588
Variance	1.326154

Goodness-of-Fit Results

Distribution Recommended	Neither
Distribution Used	Neither

Estimates Assuming Lognormal Distribution

MLE Mean	1.88252
MLE Standard Deviation	3.131176
MLE Median	0.969994
MLE Coefficient of Variation	1.663289

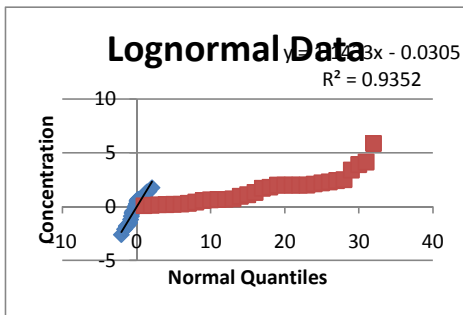
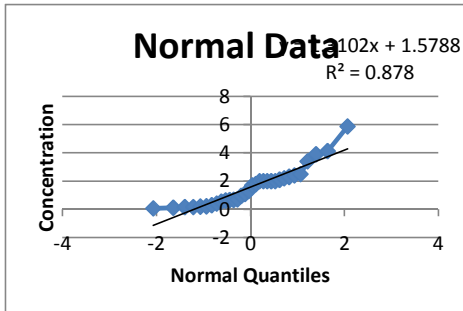
MVUE Estimate of Mean	1.822048
MVUE Estimate of Std. Dev.	2.693053
MVUE Estimate of SE	0.441403
MVUE Coefficient of Variation	1.478036

UCL Assuming Lognormal Distribution

95% H-UCL	3.251274
95% Chebyshev (MVUE) UCL	3.74608
99% Chebyshev (MVUE) UCL	6.213964

FDEP Recommended UCL to Use:
2.628363

FDEP UCL Calculator Version 1.0
 Goodness-of-fit test results



Shapiro-Francia Results (Adjust for Censoring)

SF for Normal Distribution	0
SF for LogNormal Distribution	0
Shapiro-Francia critical value for $p < 0.05$	NA

Test stat > critical value indicates a reasonable fit

Shapiro-Wilk's Test Results for All Data (BDL replaced with 1/2 DL)

SW test statistic for Normal Distribution	0.879
SW test statistic for LogNormal Distribution	0.926
Shapiro-Wilk's critical value for $p < 0.05$	0.93

Test stat > critical value indicates a reasonable fit

**Based on the results of the Shapiro-Wilk's test
 Distribution is best described as: Neither**

Neither

Normal UCL Statistics for Full Data Sets

User Selected Options
 From File P:\S F W M D\WCA 3A-3B\WO 65 C-11 Selenium Protocol Sampling\Data\C-9 Composite.wst
 Full Precision OFF
 Confidence Coefficient 95%

se

Number of Valid Observations	7
Number of Missing Values	1
Number of Distinct Observations	7
Minimum	3.4
Maximum	5.03
Mean	4.161
Median	4.3
SD	0.558
Variance	0.311
Coefficient of Variation	0.134
Skewness	0.166

Warning: A sample size of 'n' = 7 may not adequate enough to compute meaningful and reliable test statistics and estimates!

It is suggested to collect at least 8 to 10 observations using these statistical methods!
 If possible compute and collect Data Quality Objectives (DQO) based sample size and analytical results.

Shapiro Wilk Test Statistic	0.965
5% Shapiro Wilk Critical Value	0.803

Data appear Normal at 5% Significance Level

95% UCL (Assuming Normal Distribution)	
Student's-t UCL	4.571

Potential UCL to Use

Student's-t UCL	4.571
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A man in a white polo shirt is kneeling in a field of ferns, looking down at something in his hands. The background shows more ferns and trees. The text is overlaid on this image.

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**APPENDIX I: Cultural Resource Desktop Analysis for the Proposed Miramar
Parkway Property Swap, Broward County, Florida by Janus Research**



Memorandum

To: Robert Taylor, South Florida Water Management District
CC: Armando Ramirez, South Florida Water Management District
From: Adam M. Schieffer and Kate Hoffman, Janus Research
Date: January 12, 2022
Re: Cultural Resources Desktop Analysis for the Proposed Miramar Parkway Property Swap, Broward County, Florida

INTRODUCTION

On behalf of the South Florida Water Management District (SFWMD), Janus Research conducted a cultural resources desktop analysis for the proposed Miramar Parkway Property Swap in Broward County, Florida (Figures 1 and 2). The purpose of this desktop analysis was to provide cultural resources information to assist in the avoidance of resources listed in, determined eligible for, or considered eligible for listing in the *National Register of Historic Places* (National Register) according to the criteria set forth in 36 CFR Section 60.4 and develop zones of archaeological site potential. This memorandum is not intended to meet the requirements of Section 106 of the National Historic Preservation Act (NHPA) of 1966 (Public Law 89-665, as amended), as implemented by 36 CFR 800 -- Protection of Historic Properties (incorporating amendments effective August 5, 2004), the revised Chapter 267, *Florida Statutes (F.S.)*, or Chapter 1A-46 (*Archaeological and Historical Report Standards and Guidelines*), *Florida Administrative Code (F.A.C.)*.

The SFWMD plans to deed approximately 4.75 acres of land from two tracts in Broward County, W9200-003 (3.4 acres) and W9200-012 (1.35 acres), to the City of Miramar for the extension of a major neighborhood arterial roadway known as Miramar Parkway / Pembroke Road. The tracts were acquired using Department of Interior (DOI) funding and are not located within a Central Everglades Restoration Plan (CERP) project area. A replacement parcel, 12102-054 (6 acres), has been identified within the 3A/3B Seepage Management Area, an existing CERP project. This parcel will be deeded to the SFWMD as a replacement for the land to be acquired and used for the roadway.

STUDY AREA

The proposed action is limited to the transfer of tracts of land between the SFWMD and the City of Miramar. Therefore, the study area for archaeological and historic resources was limited to the footprints of the three tracts involved in the transfer (Figure 3).

DESKTOP ANALYSIS

An archaeological and historical literature and background search pertinent to the study area was conducted to determine the types, chronological placement, and spatial patterning of cultural resources within the study area. Background research methods included a search of the Florida Master Site File (FMSF) data, including unpublished Cultural Resource Management (CRM) reports, to identify cultural resources that are listed, eligible, or

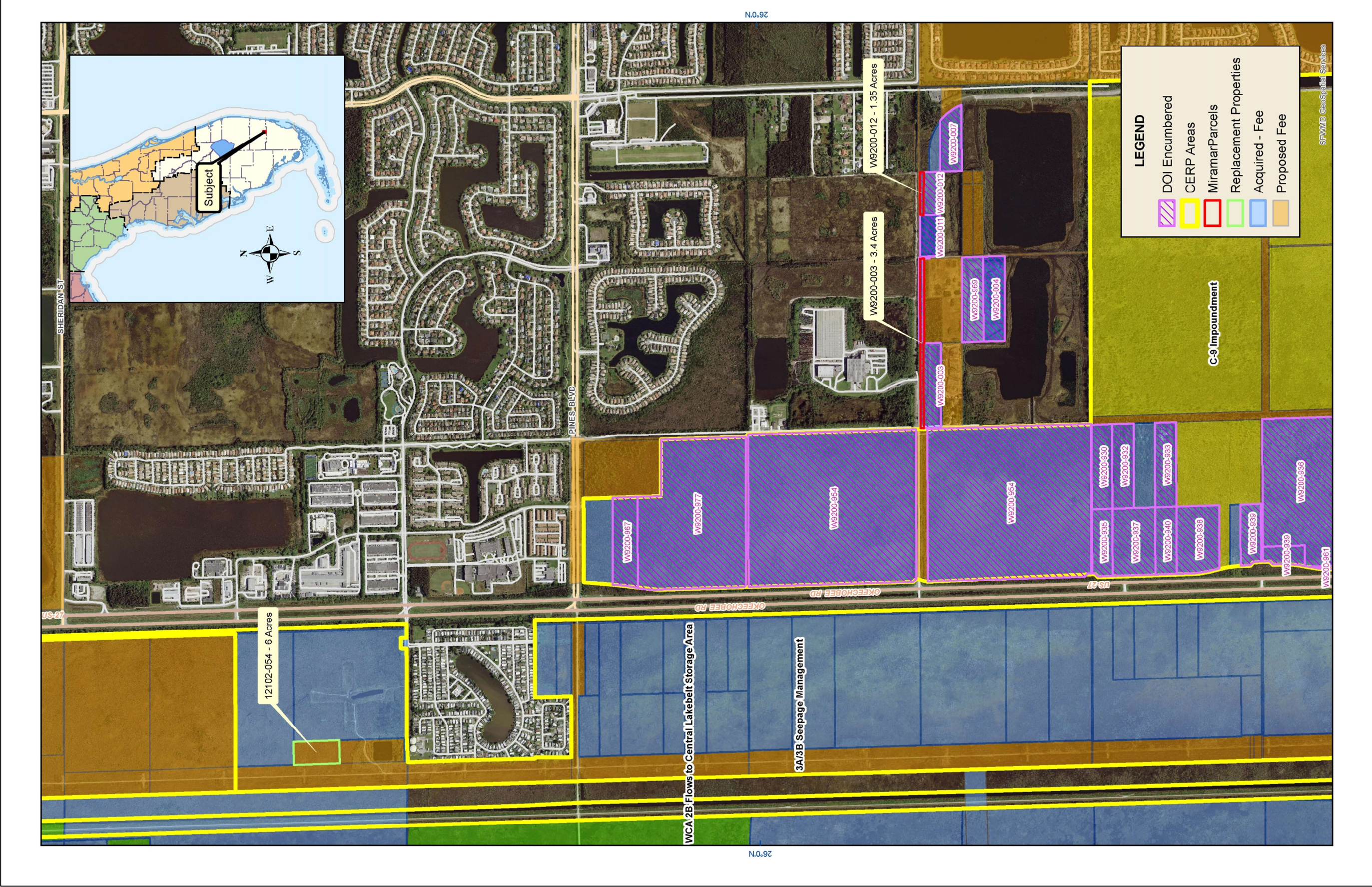


Figure 1: Proposed Miramar Parkway Property Swap

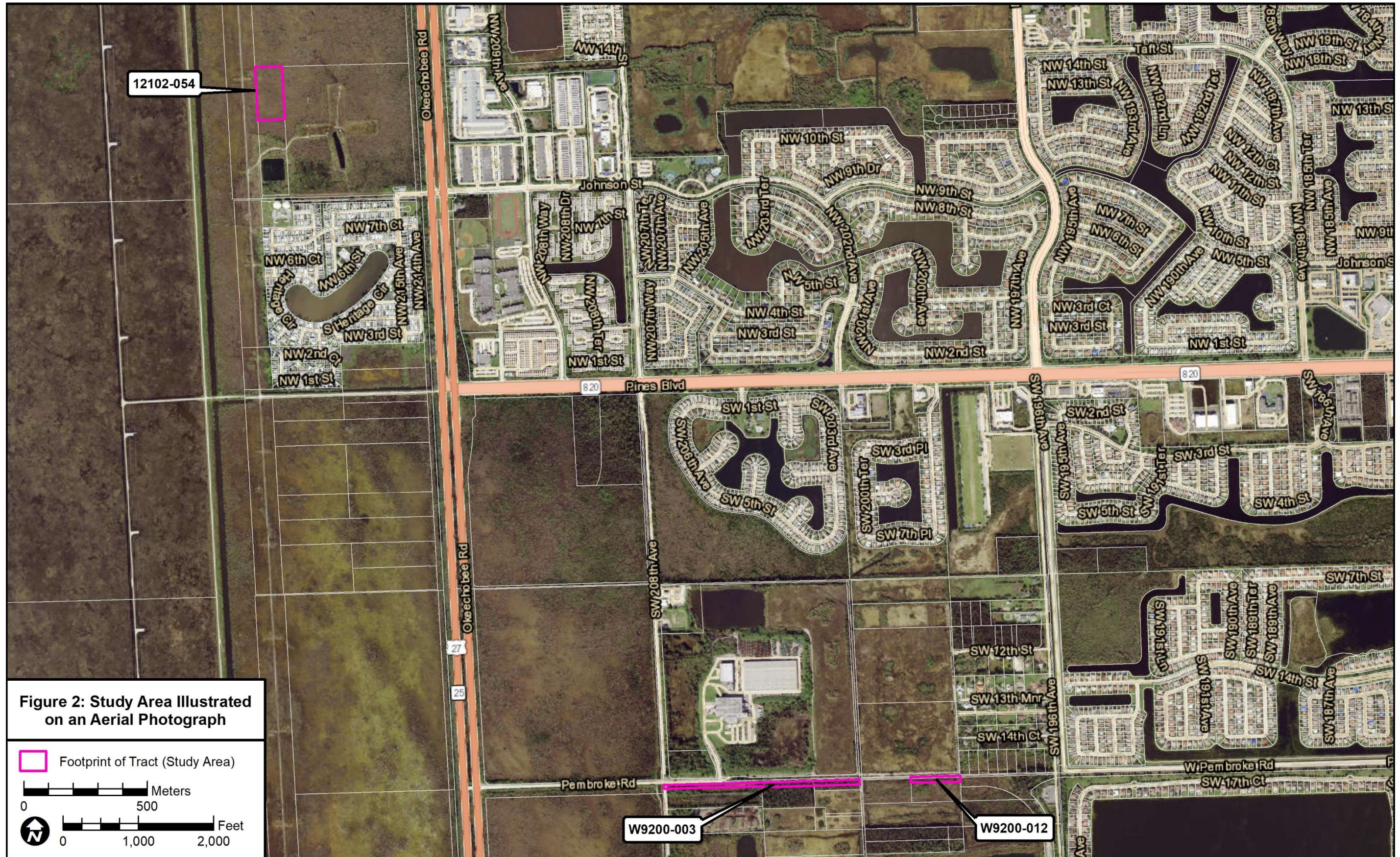


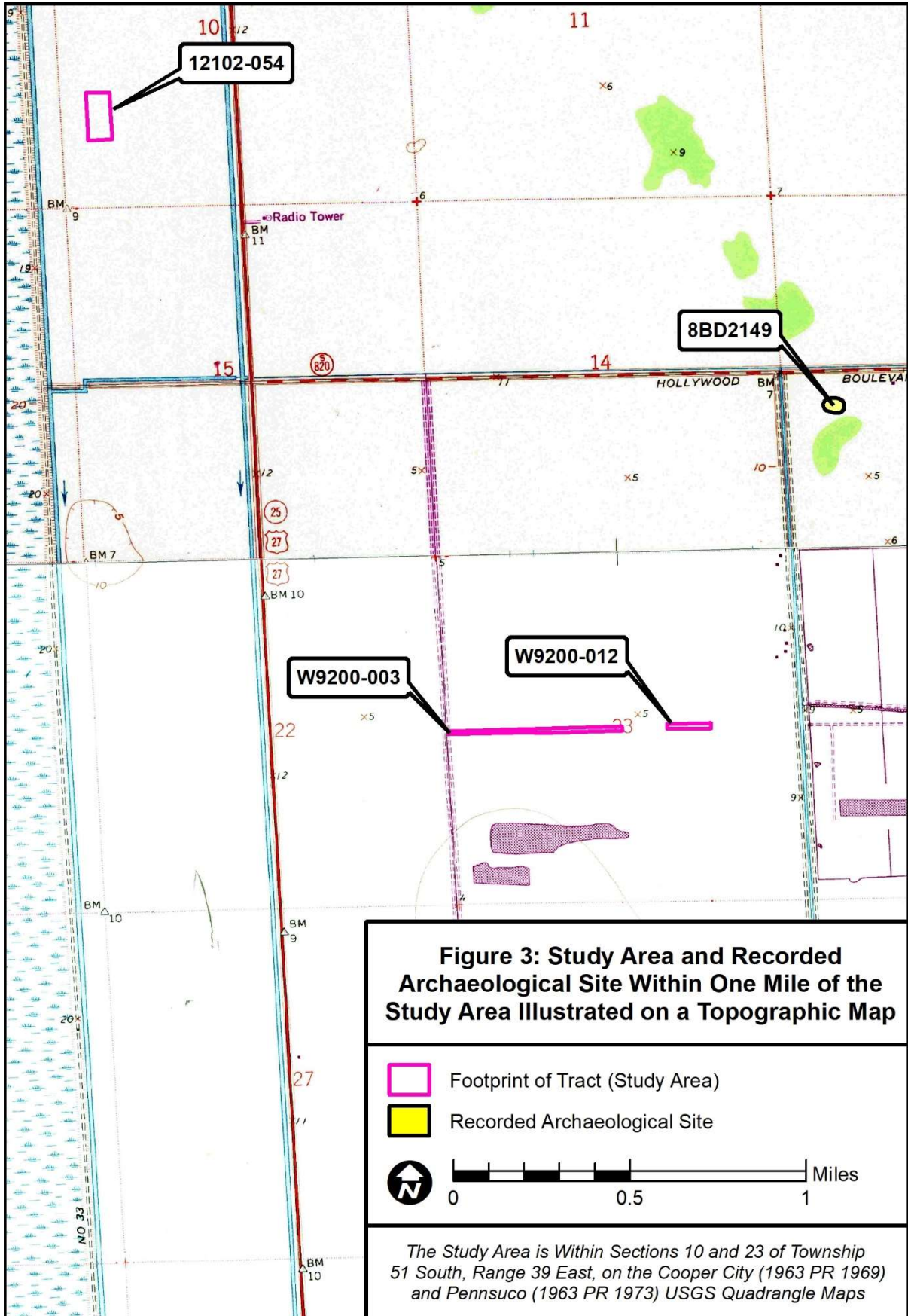
Figure 2: Study Area Illustrated on an Aerial Photograph

Footprint of Tract (Study Area)

0 500 Meters

0 1,000 2,000 Feet

North arrow symbol



considered eligible for listing in the National Register, as well as any cultural resources with potential or confirmed human remains.¹ Background research methods included a search of Broward County Property Appraiser records and other relevant historical mapping.

Previous Cultural Resource Survey Coverage

The review of the FMSF data identified two previously conducted cultural resource surveys that contained or partially contained the study area: FMSF Manuscript Nos. 2933 and 3633. Both surveys were large scale, county-wide, archaeological surveys with no systematic comprehensive archaeological survey occurring within the current study area. In addition, no historic resources survey work was conducted within the study area as a result of either previous survey. An additional survey, the *Cultural Resources Survey, Broward County Water Preservation Area, C-9 and C-11 Broward County, Florida* (New South Associates 2006; FMSF Manuscript No. 12482), was conducted directly adjacent to the westernmost edge of Tract W9200-003. This survey identified no cultural resources within or near the current study area, nor did it identify any archaeological targets in close proximity to the study area as a result of the background research (New South Associates 2006:19, 26, 27).

Previously Recorded Archaeological Resources

A search of the FMSF data identified no previously recorded archaeological sites located within or adjacent to the archaeological study area. In addition, only one archaeological site has been recorded within one mile of the study area. The Twin Acres (8BD2149) site is recorded as a precontact period site with a possible Late Archaic component. Prior to the development of the area, 8BD2149 was formerly a black dirt midden and habitation area with a reported burial that was situated on an Everglades tree island. The recorded location of this site is over 1500 meters (m) (4,921 feet [ft.]) outside of the current study area to the northeast (see Figure 3).

In addition, a search of an in-house copy of the *Broward County Land Use Plan, Cultural Resource Map Series* identified no Broward County Local Areas of Particular Concern (LAPC) for archaeological sites within or adjacent to the current study area.

Previously Recorded and Potential Unrecorded Historic Resources

A search of the FMSF data identified no previously recorded historic resources located within or adjacent to the study area. In addition, a search of the *Broward County Land Use Plan, Cultural Resource Map Series* identified no LAPC for historic resources within or adjacent to the current study area. In addition, a review of the Broward County Property Appraiser data (Broward County Property Appraiser's Office 2021) and available historic aerials from the mid-1970s and 1980s (University of Florida, George A. Smathers Libraries 2021) identified no extant unrecorded historic resources within the current study area.

¹ The FMSF data assists in identifying potential cultural resources issues and resources that may warrant further investigation and protection. It can be used as a guide, but should not be used to determine the official position of the State Historic Preservation Officer (SHPO) or the Florida Division of Historical Resources (FDHR) regarding the significance of a resource. Due to current COVID-19 safety protocols, the FMSF data may not be current.

Archaeological Site Potential Analysis

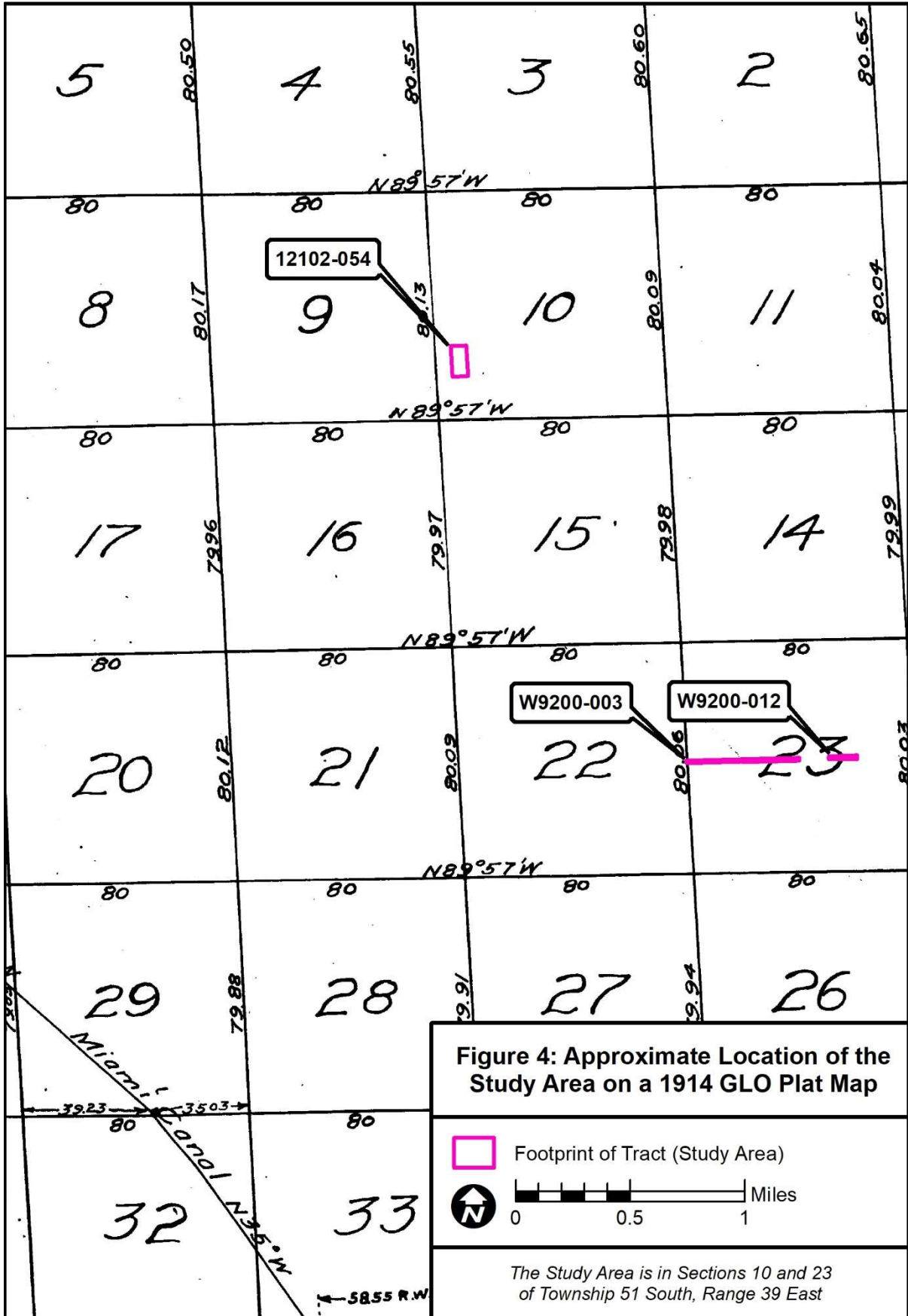
An archaeological site potential analysis provides information regarding which areas of a project have the highest probability of containing archaeological sites. Four environmental variables are typically used to predict site potential: distance to fresh water, distance to hardwood hammocks, relative elevation, and soil type (soil drainage). Available general land office plat maps and surveyor's notes, aerial photographs, topographic maps, and county soil survey data were reviewed to examine past environmental conditions within the vicinity of the study area in the early-20th Century, assess the level of past land modification, and to identify environmental features regarded as having an increased probability for archaeological resources.

The review of the available General Land Office (GLO) historic plat map (Florida Department of Environmental Protection [FDEP] 1914) for Township 51 South, Range 39 East, determined that the 1914 plat map lacked any information regarding environmental characteristics. The historic plat solely shows the route of the Miami Canal, which is located well outside of the study area to the southwest (Figure 4). Associated surveyor's field notes were not available for the study area.

The review of aerial photographs from 1940, 1958, 1973, 1976, and 1980 (University of Florida, George A. Smathers Libraries 2021) determined that in the 1940s, the study area was located within low, wet, undeveloped areas of sawgrass swamp in the Everglades (Figure 5). No tree islands, hammocks, or areas of increased elevation relative to the surroundings were visible within or adjacent to the study area on any of the early historic aerals. All of the tracts remained undeveloped until at least the late 1950s, as no development or land modification is visible on the 1958 historic aerals. Land modification is first visible within the largest of the southern tracts, Tract W9200-003, in the 1970s and 1980s, as evidenced by the scraping and clearing associated with its use in relation to a borrow pit (see Figure 6). Additional disturbance within a small portion of the tract is also visible on a 1995 aerial (Google Earth 2022). Tract W9200-012 remained in a natural, undeveloped state until at least February 2005, after which numerous episodes of clearing, leveling, and shaping activities are repeatedly visible on various available aerial imagery between late-2005 and 2014 (Google Earth 2022). Representative views of the land modification are included for reference in Figures 7 and 8. The northernmost tract, Tract 12102-054, has remained continuously undeveloped from the early 1940s until the present day (see Figure 2).

No tree islands, topographic rises, or other indicators of increased archaeological site potential were visible in or near the study area during the review of pertinent topographic maps. The study area is depicted for reference on the Cooper City (1963 Photorevised [PR] 1969) and Pennsuco (1963 PR 1973) USGS quadrangle maps (see Figure 3).

The review of available county soil surveys (United States Department of Agriculture [USDA] 1976, 1984) indicated that the majority of the study area is located within the Lauderhill muck detailed soil type. This poorly to very poorly drained soil type consists of organic soil underlain by limestone bedrock, and is located within broad flats in the Everglades (USDA 1976:14, 1984:30). This soil type is generally within level areas of sawgrass, although areas of melaleuca exist in former areas of sawgrass that underwent previous episodes of burning (USDA 1976:14, 1984:30). Under natural conditions, this soil type is inundated for most of the year, and even in areas that have been subjected to drainage, water still stands on the surface for 6–12 months of the year (USDA 1984:29). The only exception was the westernmost 600 feet of Parcel W9200-003, which were described as a 'borrow pit' in 1974, and subsequently as water in 1984.



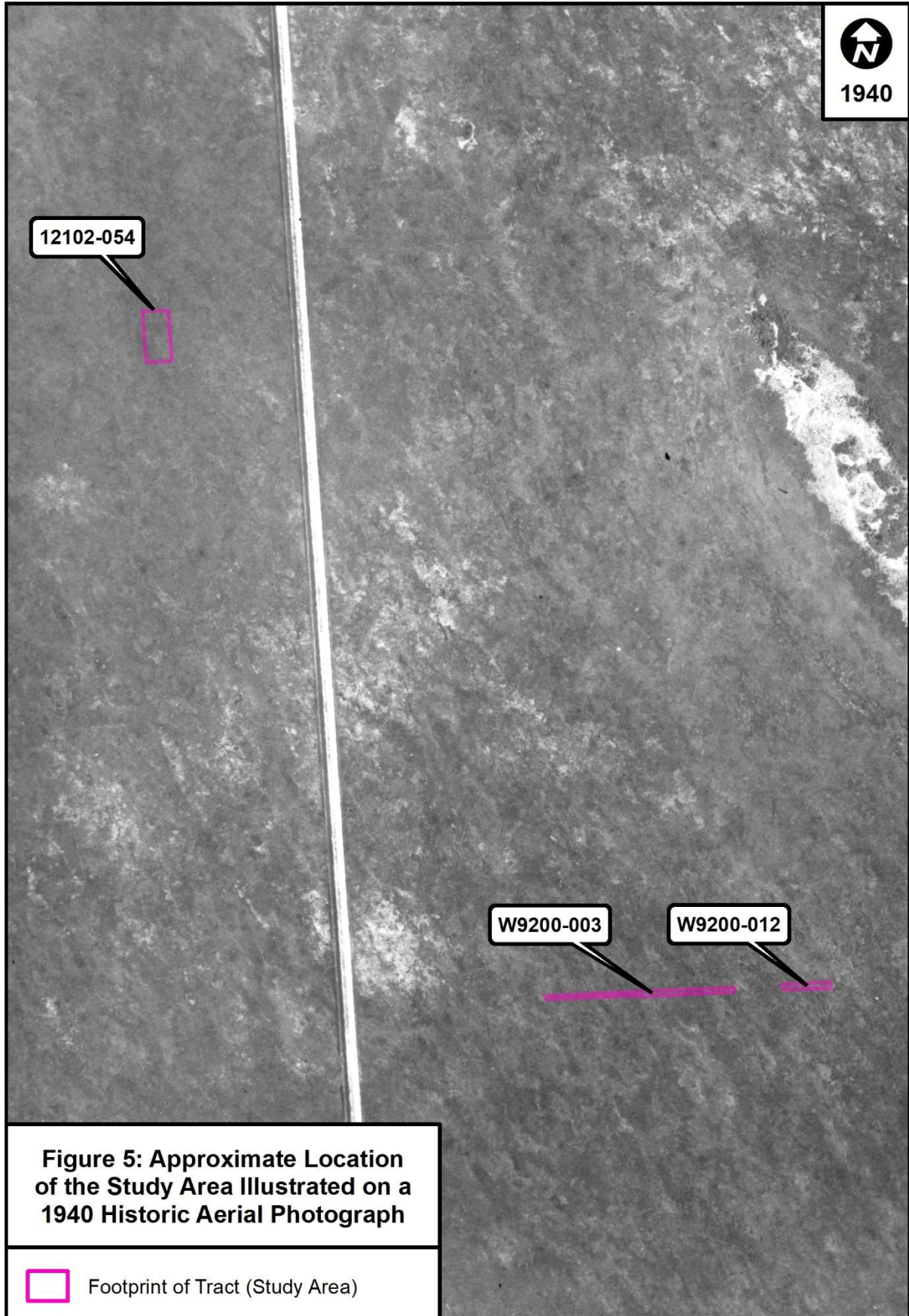


Figure 5: Approximate Location of the Study Area Illustrated on a 1940 Historic Aerial Photograph

 Footprint of Tract (Study Area)

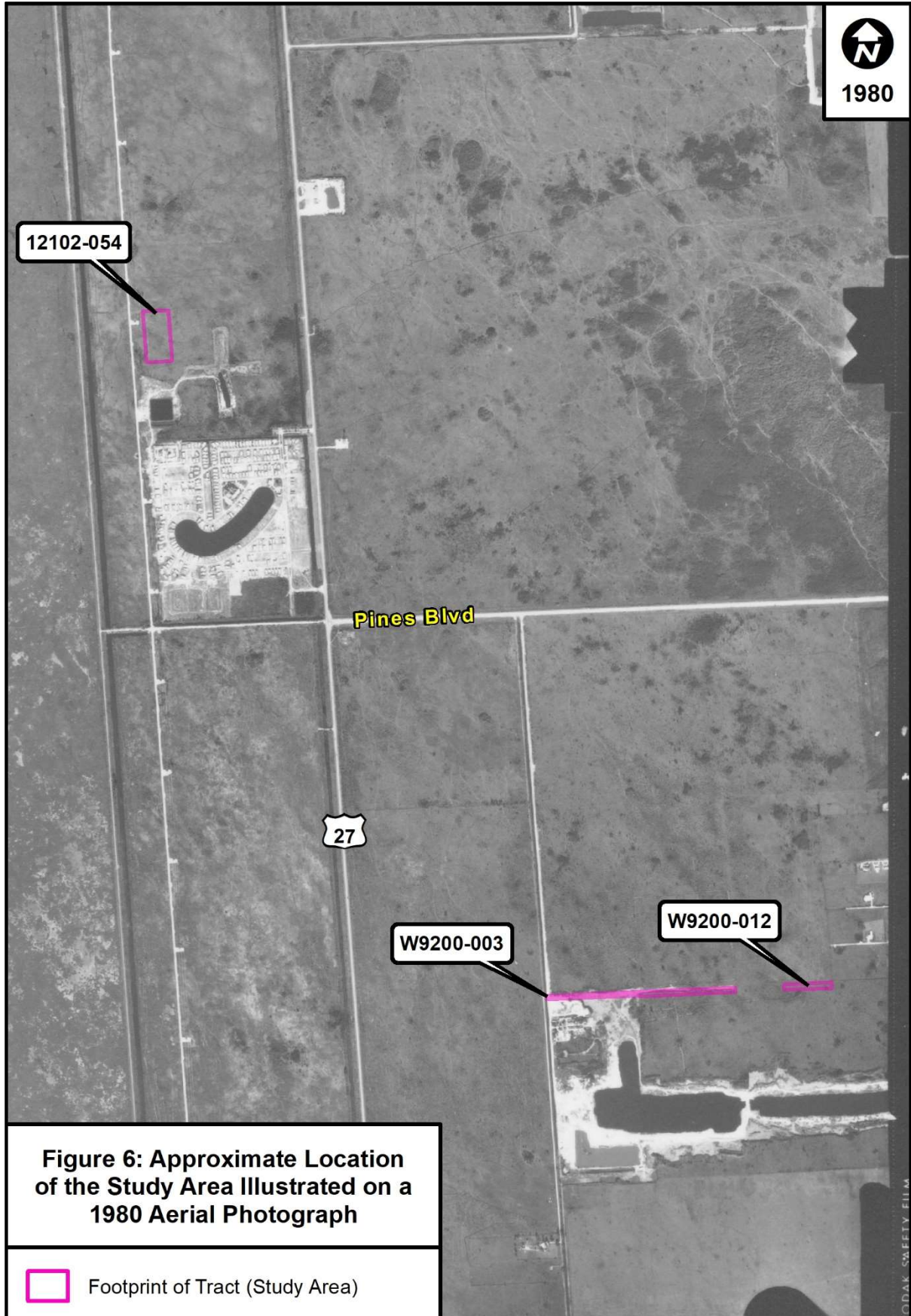


Figure 6: Approximate Location of the Study Area Illustrated on a 1980 Aerial Photograph


 Footprint of Tract (Study Area)



Figure 7: Representative View of Land Modification Within Tract W9200-012 in 2005



Figure 8: Representative View of Land Modification Within Tract W9200-012 in 2013

Fresh water is an important resource. Fresh water would have been readily available from the freshwater sawgrass marsh within and surrounding the study area.

The presence of tree islands and hammock vegetation serve as reliable indicators of site location in southern Florida, especially within the Everglades, and the use of tree islands and hammocks during the precontact and historic periods is well documented. No tree islands, areas of hammock vegetation, or areas of increased elevation relative to the surroundings were visible within or adjacent to the study area on early topographic maps or historic aerials.

In general, archaeological sites are associated with better drained soils. Although wet areas can contain abundant wildlife and plant resources, they make poorer habitation areas when better-drained locations are available. The review of the county soil surveys indicated that soils within the study area were associated with broad flats in the Everglades and that the study area would have been inundated for most of the year.

Each of the three tracts formerly consisted of low, wet, poorly drained sawgrass marshes. Despite the abundance of fresh water, the study area was completely devoid of indicators of increased site potential such as tree islands, hammock vegetation, or topographic rises. In addition, Tracts W9200-003 and W9200-012 were both subjected to past episodes of land modification that further decreased the potential for archaeological resources. Therefore, based on the review of the environmental conditions prior to development, as well as the subsequent disturbance in two of the three tracts, the study area was determined to exhibit a low potential for archaeological sites.

CONCLUSIONS

No previously recorded archeological resources or historic resources are located within or adjacent to the study area. Based on the results of this desktop analysis, all of the parcels included in the study area have a low potential for archaeological sites. No extant potential unrecorded historic resources are known to exist within the study area.

REFERENCES

Broward County Property Appraiser's Office

2021 Property Search. Electronic document, <https://web.bcpa.net/BcpaClient/#!/Record-Search>, accessed December 31, 2021.

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1914 Survey Plat Map for Township 51 South, Range 39 East. Land Boundary Information System (LABINS). Land Records. Electronic document, https://www.labins.org/survey_data/landrecords/landrecords.cfm, accessed December 21, 2021.

New South Associates

2006 *Cultural Resources Survey, Broward County Water Preservation Area, C-9 and C-11 Broward County, Florida*. Manuscript on file, Florida Division of Historical Resources, Tallahassee.

University of Florida, George A. Smathers Libraries

2021 Aerial Photography: Florida. University of Florida Digital Collections. Electronic documents, <https://ufdc.ufl.edu/aerials>, accessed December 21, 2021.

United States Department of Agriculture (USDA)

- 1976 *Soil Survey of Broward County Area Florida*. Electronic Document, https://www.nrcs.usda.gov/Internet/FSE_MANUSCRIPTS/florida/FL606/0/broward.pdf, accessed January 4, 2022.
- 1984 *Soil Survey of Broward County Florida, Eastern Part*. Electronic Document, https://www.nrcs.usda.gov/Internet/FSE_MANUSCRIPTS/florida/FL606/0/broward.pdf, accessed January 4, 2022.

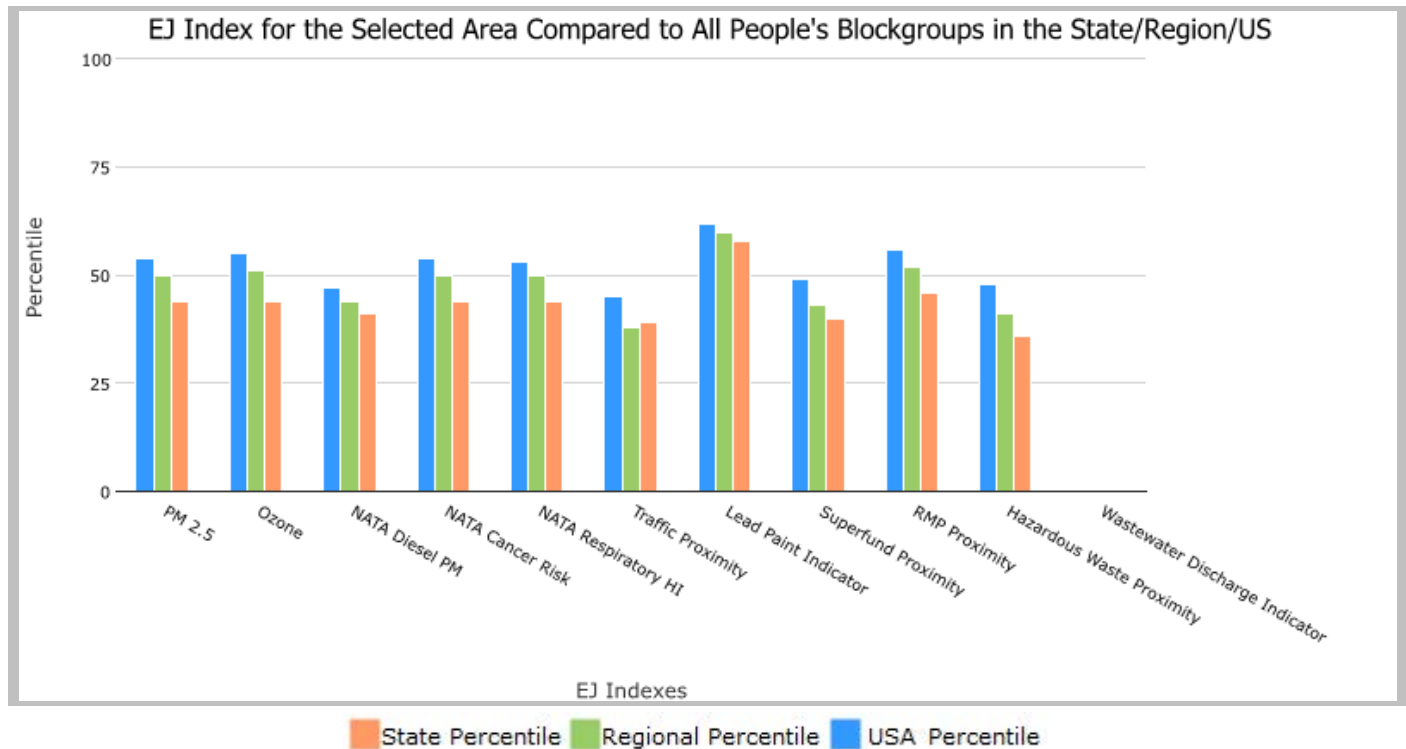
APPENDIX J: Environmental Justice Screen Report

the User Specified Area, FLORIDA, EPA Region 4

Approximate Population: 1,047

Input Area (sq. miles): 1.40

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
EJ Indexes			
EJ Index for PM2.5	44	50	54
EJ Index for Ozone	44	51	55
EJ Index for NATA* Diesel PM	41	44	47
EJ Index for NATA* Air Toxics Cancer Risk	44	50	54
EJ Index for NATA* Respiratory Hazard Index	44	50	53
EJ Index for Traffic Proximity and Volume	39	38	45
EJ Index for Lead Paint Indicator	58	60	62
EJ Index for Superfund Proximity	40	43	49
EJ Index for RMP Proximity	46	52	56
EJ Index for Hazardous Waste Proximity	36	41	48
EJ Index for Wastewater Discharge Indicator	N/A	N/A	N/A



This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

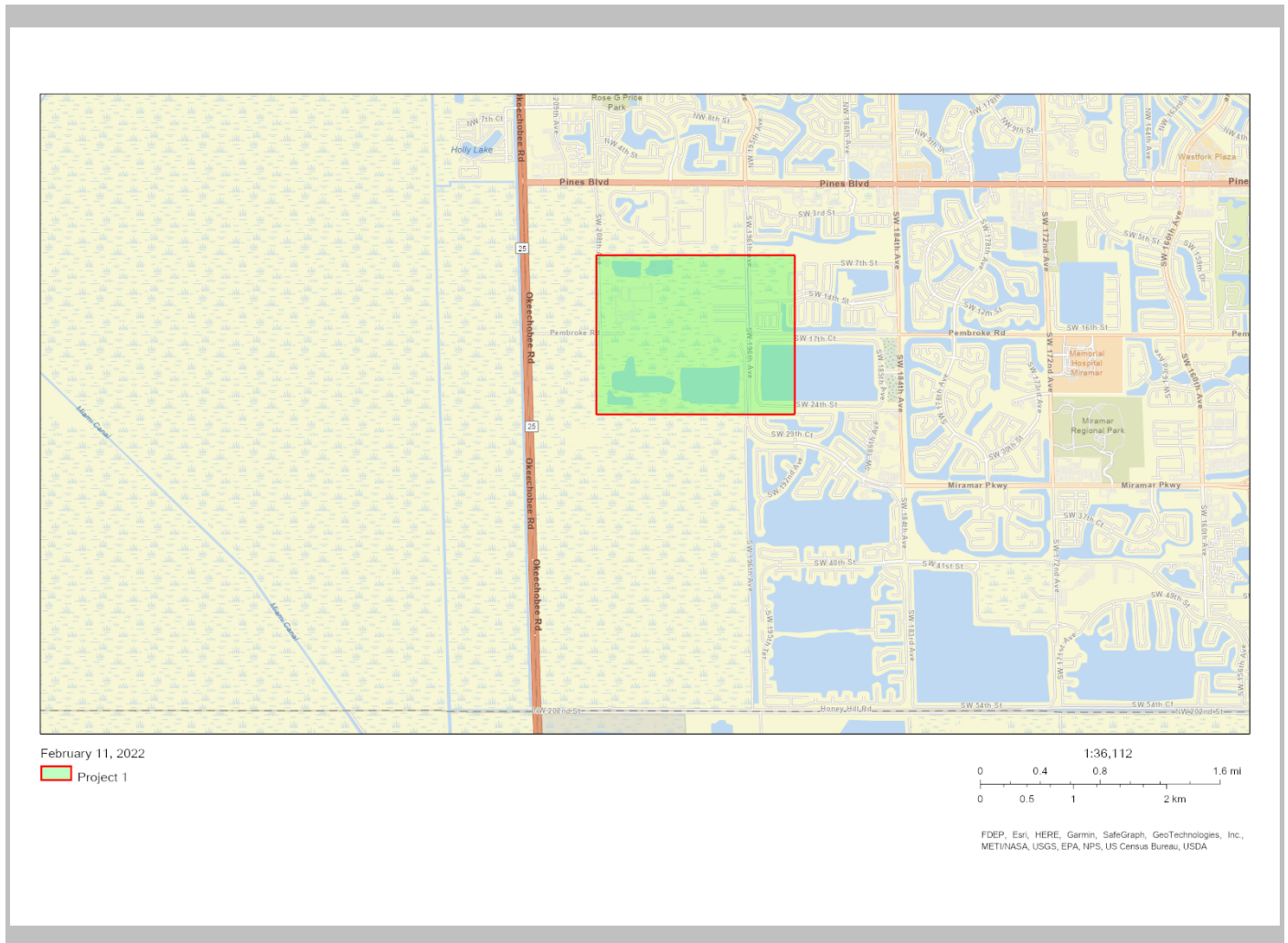
EJSCREEN Report (Version 2020)



the User Specified Area, FLORIDA, EPA Region 4

Approximate Population: 1,047

Input Area (sq. miles): 1.40



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	0

EJSCREEN Report (Version 2020)

the User Specified Area, FLORIDA, EPA Region 4

Approximate Population: 1,047

Input Area (sq. miles): 1.40



Selected Variables	Value	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Environmental Indicators							
Particulate Matter (PM 2.5 in $\mu\text{g}/\text{m}^3$)	8.22	8.11	57	8.57	32	8.55	37
Ozone (ppb)	29.1	31.9	31	38	9	42.9	2
NATA* Diesel PM ($\mu\text{g}/\text{m}^3$)	0.58	0.556	62	0.417	70-80th	0.478	70-80th
NATA* Cancer Risk (lifetime risk per million)	31	33	33	36	<50th	32	<50th
NATA* Respiratory Hazard Index	0.44	0.49	27	0.52	<50th	0.44	50-60th
Traffic Proximity and Volume (daily traffic count/distance to road)	100	550	33	350	49	750	36
Lead Paint Indicator (% Pre-1960 Housing)	0	0.11	25	0.15	15	0.28	11
Superfund Proximity (site count/km distance)	0.065	0.13	48	0.083	67	0.13	51
RMP Proximity (facility count/km distance)	0.079	0.79	6	0.6	13	0.74	10
Hazardous Waste Proximity (facility count/km distance)	0.51	0.81	62	0.91	57	5	38
Wastewater Discharge Indicator (toxicity-weighted concentration/m distance)	N/A	0.61	N/A	0.65	N/A	9.4	N/A
Demographic Indicators							
Demographic Index	33%	41%	43	37%	50	36%	54
People of Color Population	60%	46%	67	39%	75	39%	73
Low Income Population	5%	35%	2	36%	2	33%	5
Linguistically Isolated Population	1%	7%	30	3%	52	4%	46
Population With Less Than High School Education	1%	12%	4	13%	4	13%	6
Population Under 5 years of age	8%	5%	74	6%	71	6%	68
Population over 64 years of age	5%	20%	5	17%	6	15%	8

* The National-Scale Air Toxics Assessment (NATA) is EPA's ongoing, comprehensive evaluation of air toxics in the United States. EPA developed the NATA to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that NATA provides broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the NATA analysis can be found at: <https://www.epa.gov/national-air-toxics-assessment>.

For additional information, see: www.epa.gov/environmentaljustice

EJSCREEN is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJSCREEN outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.