

**Rails-to-Trails  
CSX Railbed – Lake Wales Trailways  
Land Management Plan**



Submitted by  
City of Lake Wales

Approved by  
Board of Trustees of the Internal Improvement Trust Fund  
August 14, 2009

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# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

August 14, 2009

Ms. Marsha Connell  
Office of Greenways and Trails  
3900 Commonwealth Blvd., M.S. 795  
Tallahassee, Florida 32399-3000

**RE: Lake Wales Rails to Trails- Sublease #4546-01**

Dear Ms. Connell:

The Division of State Lands (DSL), Office of Environmental Services, acting as agent for the Board of Trustees of the Internal Improvement Trust Fund, approves the Lake Wales Rails to Trails management plan. The next management plan update is due August 14, 2019.

Approval of this land management plan amendment does not waive the authority or jurisdiction of any governmental entity that may have an interest in this project. Implementation of any upland activities proposed by this management plan may require a permit or other authorization from federal and state agencies having regulatory jurisdiction over those particular activities. Pursuant to the conditions of your lease, please forward copies of all permits to this office upon issuance.

Sincerely,

Paula L. Allen  
Office of Environmental Services  
Division of State Lands  
Department of Environmental Protection

**RECEIVED**

AUG 18 2009

OFFICE OF  
GREENWAYS TRAILS

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**CSX Railbed – Lake Wales Trailways**  
Land Management Plan Executive Summary

**Lead Agency:** City of Lake Wales through a sublease from the Department of Environmental Protection, Office of Greenways and Trails.

**Property Common Name:** Lake Wales Rails-to-Trails

**Acreage:** 3.02

**Location:** Section 2, Township 30 South, Range 27 East, Lake Wales, Polk County, FL

**Lease:** #4546, Dated December 8, 2006 **Sublease:**#4546-01, Dated June 11, 2008

**Use:** Single Use – Recreational Trail

**Management Responsibilities:** City of Lake Wales – All management responsibilities

**Designated Land Use:** Medium Density Residential and General Commercial

**Contracts:** No 3<sup>rd</sup> Party **Encumbrances:** No 3<sup>rd</sup> Party

**Type Acquisition:** Fee simple through Florida Department of Environmental Protection's Office of Greenways and Trails' Florida Forever Land Acquisition Program

**Unique Features:** None.

**Archeological/Historical:** None. Former rail bed originally laid in 1916. Adjacent to designated Residential Historic District listed on the National Register of Historic Places.

**Management Needs:** Contamination Remediation, Trail Development and Maintenance

**Acquisition Needs:** none **Surplus Lands:** none

**Public Involvement:** City wide referendum, public workshops, advisory group meetings, presentations to civic organizations.

DO NOT WRITE BELOW THIS LINE (FOR DIVISION OF STATE LANDS USE ONLY)

ARC Approval Date \_\_\_\_\_ Trustees Approval Date \_\_\_\_\_

Comments \_\_\_\_\_

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**Management Plan Compliance Checklist - Natural Resource Lands**

Requirements		Page Numbers
<b>18-2.021 Acquisition and Restoration Council.</b>		
1. Executive Summary (Example #1) This should be included in the packet and should be the first page.		1
<b>Management Plans. Plans submitted to the division for ARC review under the requirements of Section 253.034 F.S. should be in a form and manner prescribed by rule by the board and in accordance with the provisions of S. 259.032 and should contain where applicable to the management of resources the following:</b>		
2. The common name of the property.		8
3. A map showing the location and boundaries of the property plus any structures or improvements to the property. (Example #2)		Maps A, B
4. The legal description and acreage of the property.		App. A
5. The degree of title interest held by the Board, including reservations and encumbrances such as leases.		11
6. The land acquisition program, if any, under which the property was acquired.		8, 11
7. The designated single use or multiple use management for the property, including other managing agencies.		18
8. Proximity of property to other significant State/local/federal land or water resources. (Example #3) <b>May be included in the map in item #2.</b>		Map C
9. A statement as to whether the property is within an Aquatic Preserve or a designated Area of Critical State Concern or an area under study for such designation. If yes, make sure appropriate managing agencies are notified of the plan.		8
10. The location and description of known and reasonably identifiable renewable and non-renewable resources of the property including, but not limited to, the following:		
A. Brief description of soil types, using U. S. D. A. maps when available;		15
B. Archaeological and historical resources*;		8
C. Water resources including the water quality classification for each water body and the identification of any such water body that is designated as an Outstanding Florida Waters;		8, 16
D. Fish and wildlife and their habitat;		15
E. State and federally listed endangered or threatened species and their habitat;		15
F. Beaches and dunes;		17
G. Swamps, marshes and other wetlands;		17
H. Mineral resources, such as oil, gas and phosphate;		17
I. Unique natural features, such as coral reefs, natural springs, caverns, large sinkholes, virgin timber stands, scenic vistas, and natural rivers and streams; and		9, 17
J. Outstanding native landscapes containing relatively unaltered flora, fauna, and geological conditions.		9, 15
11. A description of actions the agency plans, to locate and identify unknown resources such as surveys of unknown archeological and historical resources.		17, 28
12. The identification of resources on the property that are listed in the Florida Natural Areas Inventory. <i>Include letter from FNAI or consultant, where appropriate.</i>		15
13. A description of past uses, including any unauthorized uses of the property. (Example #4)		18
14. A detailed description of existing and planned use(s) of the property. (Example #5)		18
15. A description of alternative or multiple uses of the property considered by the managing agency and an explanation of why such uses were not adopted.		18
16. A detailed assessment of the impact of planned uses on the renewable and non-renewable resources of the property and a detailed description of the specific actions that will be taken to protect, enhance and conserve these resources and to mitigate damage caused by such uses.		9, 18
17. A description of management needs and problems for the property.		21
18. Identification of adjacent land uses that conflict with the planned use of the property, if any.		20
19. A description of legislative or executive directives that constrain the use of such property.		12
20. A finding regarding whether each planned use complies with the State Lands Management Plan adopted by the Trustees on March 17, 1981, and incorporated herein by reference, particularly whether such uses represent "balanced public utilization", specific agency statutory authority, and other legislative or executive		12
21. An assessment as to whether the property, or any portion, should be declared surplus.		20
22. Identification of other parcels of land within or immediately adjacent to the property that should be purchased because they are essential to management of the property. <b>Clearly defined map of parcels can be used.</b>		20
23. A description of the management responsibilities of each agency and how such responsibilities will be coordinated, including a provision that requires that the managing agency consult with the Division of Archives, History and Records Management before taking actions that may adversely affect archaeological or historic resources. (Example #6)		21, 28
24. A statement concerning the extent of public involvement and local government participation in the development of the plan, if any, including a summary of comments and concerns expressed. (Example #7)		13
<b>Additional Requirements—Per Trustees</b>		
25. Letter of Compliance of the management plan with the Local Government Comprehensive Plan. Letter from local government saying that the plan is in compliance with local government's comprehensive plan.		App. B

Management Plan Compliance Checklist - Natural Resource Lands	
Requirements	Page Numbers
253.034 State-Owned Lands; Uses. —Each entity managing conservation lands shall submit to the Division of State Lands a land management plan at least every 10 years in a form and manner prescribed by rule by the Board.	
26. All management plans, whether for single-use or multiple-use properties, shall specifically describe how the managing entity plans to identify, locate, protect and preserve, or otherwise use fragile nonrenewable resources, such as archaeological and historic sites, as well as other fragile resources, including endangered plant and animal species.	28
27. The management plan shall provide for the conservation of soil and water resources and for the control and prevention of soil erosion.	23
28. Land management plans submitted by an entity shall include reference to appropriate statutory authority for such use or uses and shall conform to the appropriate polices and guidelines of the state land management plan.	12
29. All land management plans for parcels larger than 1,000 acres shall contain an analysis of the multiple-use potential of the parcel, which analysis shall include the potential of the parcel to generate revenues to enhance the management of the parcel.	n/a
30. Additionally, the land management plan shall contain an analysis of the potential use of private managers to facilitate the restoration or management of these lands.	23
31. A physical description of the land.	14
32. A desired outcome	25
33. A quantitative data description of the land which includes an inventory of forest and other natural resources; exotic and invasive plants; hydrological features; infrastructure, including recreational facilities; and other significant land, cultural, or historical features.	9
34. A detailed description of each short-term and long-term land management goal, the associated measurable objectives, and the related activities that are to be performed to meet the land management objectives. Each land management objective must be addressed by the land management plan, and where practicable, no land management objective shall be performed to the detriment of the other land management activities.	25
35. A schedule of land management activities which contains short-term and long-term land management goals and the related measurable objectives and activities. The schedule shall include for each activity a timeline for completion, quantitative measures, and detailed expense and manpower budgets. The schedule shall provide a management tool that facilitates development of performance measures.	31
36. A summary budget for the scheduled land management activities of the land management plan. For state lands containing or anticipated to contain imperiled species habitat, the summary budget shall include any fees anticipated from public or private entities for projects to offset adverse impacts to imperiled species or such habitats, which fees shall be used solely to restore, manage, enhance, repopulate, or acquire imperiled species habitat. The summary budget shall be prepared in such a manner that it facilitates computing an aggregate of land management costs for all state-managed lands using the categories described in s. 259.037(3).	31
37. Each management plan shall describe both short-term and long-term management goals, and include measurable objectives to achieve those goals. Short-term and long-term management goals shall include measurable objectives for the following, as appropriate: (A) Habitat restoration and improvement;	25
(B) Public access and recreational opportunities;	25
(C) Hydrological preservation and restoration;	27
(D) Sustainable forest management;	27
(E) Exotic and invasive species maintenance and control;	28
(F) Capital facilities and infrastructure;	26
(G) Cultural and historical resources;	28
(H) Imperiled species habitat maintenance, enhancement, restoration, or population restoration	28
253.036 Forest Management. —	
38. For all land management plans for parcels larger than 1,000 acres, the lead agency shall prepare the analysis, which shall contain a component or section prepared by a qualified professional forester which assesses the feasibility of managing timber resources on the parcel for resource conservation and revenue generation purposes through a stewardship ethic that embraces sustainable forest management practices if the lead management agency determines that the timber resource management is not in conflict with the primary management objectives of the parcel. (Example #8)	n/a
259.032 Conservation And Recreation Lands Trust Fund; Purpose. —	

**Management Plan Compliance Checklist - Natural Resource Lands**

Requirements		Page Numbers
<b>(10)(a) State, regional or local governmental agencies or private entities designated to manage lands under this section shall develop and adopt, with the approval of the Board of Trustees, an individual management plan for each project designed to conserve and protect such lands and their associated natural resources. Private sector involvement in management plan development may be used to expedite the planning process.</b>		
39. Individual management plans required by s. 253.034(5), for parcels over 160 acres, shall be developed with input from an advisory group - <b>Management plan should list advisory group members and affiliations.</b>		n/a
40. The advisory group shall conduct at least one public hearing <b>in each</b> county in which the parcel or project is located. <b>Managing agency should provide DSL/OES with documentation showing date and location of public hearing.</b>		n/a
41. Notice of such public hearing shall be posted on the parcel or project designated for management, advertised in a paper of general circulation, and announced at a scheduled meeting of the local governing body before the actual public hearing. <b>Managing agency should provide DSL/OES with copy of notice.</b>		n/a
42. The management prospectus required pursuant to 259.032 (9)(d) shall be available to the public for a period of 30 days prior to the public hearing.		n/a
43. Summary of Advisory Group Meeting should be provided to DSL/OES.		n/a
44. Individual management plans shall conform to the appropriate policies and guidelines of the state land management plan and shall include, but not be limited to:		
A. A statement of the purpose for which the lands were acquired, the projected use or uses as defined in s. 253.034, and the statutory authority for such use or		8, 18
B. Key management activities necessary to <b>achieve the desired outcomes, including, but not limited to, providing public access</b> , preserving and protecting natural resources, <b>protecting cultural and historical resources</b> , restoring habitat, <b>protecting threatened and endangered species</b> , controlling the spread of nonnative plants and animals, performing prescribed fire activities, and other appropriate resource management activities.		28
C. A specific description of how the managing agency plans to identify, locate, protect, and preserve, or otherwise use fragile, nonrenewable natural and cultural resources.		25-29
D. A priority schedule for conducting management activities, based on the purposes for which the lands were acquired. (Example #10) <b>The schedule must include a goal, an objective, and a time frame for completion.</b>		31
E. A cost estimate for conducting priority management activities, to include recommendations for cost-effective methods of accomplishing those activities. <i>Using categories as adopted pursuant to 259.037, F.S., is suggested. These are: (1) Resource Management; (2) Administration; (3) Support; (4) Capital Improvements; (5) Visitor Services/Recreation; and (6) Law Enforcement.</i>		31
F. A cost estimate for conducting other management activities which would enhance the natural resource value or public recreation value for which the lands were acquired. The cost estimate shall include recommendations for cost-effective methods of accomplishing those activities. <i>Using categories as adopted pursuant to 259.037, F.S., is suggested. These are: (1) Resource Management; (2) Administration; (3) Support; (4) Capital Improvements; (5) Visitor Services/Recreation; and (6) Law Enforcement.</i> (Example #10) <b>Include approximate monetary cost and cost effective methods. Can be placed in the appendix.</b>		31
45. A determination of the public uses and public access that would be consistent with the purposes for which the lands were acquired.		8, 18
<b>259.036 Management Review Teams.—</b>		
46. The managing agency shall consider the findings and recommendations of the land management review team in finalizing the required 10-year update of its management plan. <b>Can be addressed in the body of the plan or addressed in an appendix. If not in agreement, the managing agency should reply in a statement in the appendix.</b>		n/a
<b>Other Requirements</b>		
47. This checklist table at front of plan (pursuant to request of ARC and consensus agreement of managing agencies.)		2
48. Accomplishments (implementation) from last plan (format variable by agency)		n/a
49. FNAI-based natural community maps (may differ from FNAI in some cases)		95
50. Fire management plans (either by inclusion or reference)( 259.032)		n/a
51. A statement regarding incompatible uses [ref. Ch. 253.034 (9)]		n/a
52. Cultural resources, including maps of all sites <u>except</u> Native American sites*		17, 28
53. <b>Arthropod control plan</b>		n/a

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- B. Comprehensive Plan Compliance
- C. Soil Report – Natural Resources Conservation Service
- D. Florida Natural Areas Inventory Report
- E. Florida Fish & Wildlife Commission Report
- F. Division of Historic Resources Report
- G. Site Photos
- H. Ridge Scenic Highway Corridor Plan
- I. Contamination Guidelines/Environmental Assessments

## OVERVIEW

The CSX Rail Bed – Lake Wales Trailways project is a 3.02 acre parcel that will be managed as part of a larger trail project commonly called Lake Wales Rails-to-Trails. The 3.02 acre parcel was purchased with Florida Forever funds through the Florida Department of Environmental Protection's Office of Greenways and Trails' (OGT) Land Acquisition Program in 2006. The property is leased to OGT and subleased to the City of Lake Wales through sublease #4546-01. The sublease was executed on June 11, 2008, and expires December 7, 2056.

The primary purpose for the acquisition is to construct a ¼ mile 12-foot wide paved recreational trail that will extend the existing Lake Wales Rails-to-Trails, which begins at Fourth Street and extends east to Buck Moore Road, to Ridge Scenic Highway (SR17). When complete, the trail will be approximately 2.1 miles in length. Primary uses of the trail will include hiking, biking, jogging, in-line skating and other social and fitness related activities. It will also serve as a means of alternative transportation for nearby residents due to the proximity of a wide variety of community venues. A section of the property will also be used for parking to support the trail and the proposed Trailhead Center, which will be housed in the 1920 City Barn known as the CSX Building located on adjacent city-owned property. No renewable or non-renewable resources will be impacted by the planned uses.

The property is located in the City of Lakes Wales, Polk County, Florida, in Section 2, Township 30 South, Range 27 East. It commences at Ridge Scenic Highway (SR 17), running between Seminole Avenue and Kissimmee Avenue, and terminates at 5<sup>th</sup> Street. The site was formerly used as a rail bed and freight station for CSX Railroad and its predecessors. Adjacent land use consists primarily of mixed commercial and residential.

The property is highly disturbed because of its past use as a railroad corridor. Plants and vegetation found on the site consist primarily of assorted oaks with a shrubby understory of low to moderate density. In general, the understory within these patches of vegetation is uniform in species composition and includes saw palmetto, scrub oak, and herbaceous undergrowth. There are no beaches, dunes, mineral resources, unique natural features, water bodies, or outstanding native landscapes on this property. It is not located within an Aquatic Preserve or a designated Area of Critical State Concern.

No listed endangered or threatened species have been identified on the property, but a site assessment will be conducted due to a 1984 record of the blue-tailed mole skink in the vicinity and the existence of rare plants located within the Lake Wales Ridge Wildlife and Environmental area located two miles away. The site assessment will also reveal if there are any exotic or invasive species onsite.

According to the Division of Historical Resources, there are no recorded historical or archeological features identified on the property and there is a low probability of significant, unrecorded, sites being located in this area. The site has historical

significance for the City of Lake Wales because of its past use as a railroad corridor, and it is adjacent to a Residential Historic District listed on the National Register of Historic Places.

The Lake Wales Rails-to-Trails project will be managed and maintained by the City of Lake Wales. Current management needs include removal of litter and railroad related debris, an environmental site assessment, mitigation of contaminated soil that has a high concentration of arsenic, and trail development.

## **GENERAL INFORMATION**

### **A. Project Location**

The property is located in the City of Lakes Wales, Polk County, Florida, in Section 2, Township 30 South, Range 27 East. It commences at Ridge Scenic Highway (SR 17), running between Seminole Avenue and Kissimmee Avenue, and terminates at 5<sup>th</sup> Street. (Maps A & B). A full legal description is contained in Appendix A.

### **B. Proximity to Other Significant Land or Water Resources**

Nearby conservation lands open to the public include Kissimmee State Park, Lake Wales Ridge State Forest, Crooked Lake Prairie, Tiger Creek Preserve, and the SUMICA Preserve. All these properties are within 20 miles of the Lake Wales Rails-to-Trail. Crooked Lake is located approximately 8 miles south of the trail along the Ridge Scenic Highway and is designated as a Florida Outstanding Water (Map C).

### **C. Funding and Ownership**

The 3.02 acre parcel was purchased from CSX Railroad for \$230,000 through the Florida Department of Environmental Protection, Office of Greenways and Trails' (OGT) Land Acquisition Program utilizing Florida Forever funds. Fee simple title to the property was conveyed to the Board of Trustees of the Internal Improvement Trust Fund of the State of Florida (Trustees) on May 23, 2006. The property is leased to the OGT and subleased to the City of Lake Wales. Sublease #4546-01 was executed on June 11, 2008, and expires on December 7, 2056 (Appendix A).

The sublease constrains the use of the property to those activities listed in this managed plan and approved by the OGT and the Trustees. The City will only manage the property for the conservation and protection of natural and historical resources and resource-based public outdoor recreation which is compatible with the conservation and protection of these public lands as set forth in subsection 259.032(11), F.S.

The existing Lake Wales Rails-to-Trails project, from 5<sup>th</sup> Street to Buck Moore Road, was purchased from CSX Railroad for \$100,000 by the City of Lake Wales in 1989 for a utility easement. The portion of the trail from 4<sup>th</sup> Street to Kiwanis Park was constructed in 2006 utilizing Intermodal Surface Transportation Efficiency Act (ISTEA) funds. The portion of the trail from Kiwanis Park to Buck Moore Road was constructed in 2008 utilizing Recreational Trails Program (RTP) funding from OGT.

Construction of the trail from 4<sup>th</sup> Street to Ridge Scenic Highway will be completed by the Florida Department of Transportation (FDOT) upon approval of the

management plan utilizing American Recovery and Reinvestment Act of 2009 (ARRA) dollars.

#### **D. Purpose and Scope of Plan**

The management plan for the Lake Wales Rails-to-Trails describes its setting, natural resources, and the intended management. Acquired through the Florida Forever program, the general management and use of the land are directed by the statutes and rules of that program. Additionally, management is guided by the purpose and intended use of the land described in the land acquisition project selection process. The trail will be managed to conserve and protect the natural resources of the area and to provide public recreation consistent with the protection of natural resources. This is the initial land management plan for the subject property.

The mission of the Office of Greenways and Trails is to establish a statewide system of greenways and trails for recreation, conservation, and alternative transportation purposes. The primary purpose for the acquisition is to construct a 12-foot wide paved multi-use trail that will extend the existing Lake Wales Rails-to-Trails, which begins at Fourth Street and extends east to Buck Moore Road, to Ridge Scenic Highway (SR17). A section of the property will also be used for parking to support the trail and the proposed adjacent Trailhead Center, which will be housed in the 1920 City Barn known as the CSX Building located on adjacent city-owned property.

This management plan is submitted for review to the Florida Board of Trustees of the Internal Improvement Trust Fund (Trustees) through the Florida Department of Environmental Protection, Division of State Lands (DSL). It is intended to comply with paragraph 7 of Sublease #4546-01 between the City of Lake Wales and the Department of Environmental Protection's Office of Greenways and Trails; Chapters 253 and 259, Florida Statutes (F.S.); and Chapters 18-2 and 18-23, Florida Administrative Code (F.A.C). This plan is intended to be consistent with the State Management Plan. The format and content of this plan for the Lake Wales Rails-to-Trails are in accordance with the Acquisition and Restoration Council recommendations for management plans and the model plans provided by the staff of DSL. All development and resource alteration encompassed in this plan are subject to the granting of appropriate permits, easements, licenses, and other required legal instruments. Approval of the management plan does not constitute an exemption from complying with the rules and regulations of the appropriate local, state, or federal agencies.

This land management plan is in compliance with the City of Lake Wales' 2015 Comprehensive Plan (Appendix B).

## **E. Regional Significance**

Once complete, the trail will become part of the Polk County Unified Greenways and Trails System (PUGS) and is included in Polk County's 2030 Long Range Transportation Plan (Maps D & E). The trail is also part of the Ridge Scenic Highway's Corridor Management Plan, which lists it as a recreational and historic resource (Appendix H). Additionally, the trail will be part of the overall Statewide System of Greenways and Trails.

## **F. Public Input**

In general, the public has been involved in discussions of the Lake Wales Rails-to-Trails project for the past twenty years.

The Lake Wales Rails-to-Trails project was discussed in public forums and endorsed by the Lake Wales City Commission through the adoption of two resolutions in 1999 and 2000, respectively. In 2004, the project was opposed by a group of local citizens, and the resolutions were rescinded by the City Commission. In 2005, there was a citizen petition drive to put the trail issue on a City election ballot. The initiative passed overwhelmingly.

As part of the Recreational Trails Program grant process, the trail project was presented at civic club meetings and citizen advisory board meetings, and two "sole purpose" public meetings were held in 2006 and 2007, respectively.

The City of Lake Wales approved an ordinance to create a Citizen Bicycle and Pedestrian Advisory Committee to oversee the construction of the trail and other pedestrian and bicycling concerns. Notices of the Committee's monthly meetings are posted in the newspaper, on the bulletin board in City Hall, and on the City website. The City of Lake Wales also has a Recreation Advisory Board and a Parks Advisory Board that are composed of citizens with related interests that also offer input into the development of the trail.

## **II. NATURAL, CULTURAL, AND HISTORICAL RESOURCES**

### **A. Area Physiography**

Polk County is located in the Central, or Mid-Peninsular Zone of Florida (Scott, 1992). Polk County is located in the Central Highlands physiographic province (Soil Conservation Survey, SCS, 1990). Eight physiographic subprovinces within the Central Highlands have been identified in Polk County (SCS, 1990). These eight physiographic subprovinces are the Bombing Range Ridge, Lake Henry Ridge, Lake Uplands, Lakeland Ridge, Lake Wales Ridge, Osceola Plain, Western Valley, and the Polk Upland (SCS, 1990).

The CSX Property is located in the Polk Upland physiographic subprovince. The elevation of the Polk Upland generally ranges between 100 to 130 feet above mean sea level (AMSL). It is higher on the ridges. In the northern part of the county, the Polk Upland merges with the Lake upland. The two uplands do not have a distinct topographic distinction; therefore, the boundary is drawn arbitrarily. The Polk Upland is bordered by the Gulf Coastal Lowlands and the Western Valley on the west and north, the Desoto Plain on the south, and by the Lake Wales Ridge on the east.

The CSX property is characterized by low, flat topography, with a thin veneer of relatively poorly drained organic-rich carbonate sands and silts overlying limestone. Drainage at the Subject is controlled by direct infiltration of rainwater and drainage into surrounding stormwater control devices. Land elevation at the CSX Property is approximately 151 feet AMSL.

### **B. Physical Description of Land/Natural Area Resources Inventory**

The 3.02 acres consists of one rectangular shaped parcel of land, which widens on the western boundary to generally create the resemblance of the shape of a "toothbrush". The western section of the property, the wider portion close to Ridge Scenic Highway (SR 17), is flat, grassy, with a few trees and sandy spots. The strip, or abandoned rail bed, is grassy with sections overgrown with trees and brush. Plants and vegetation found on the site consists primarily of assorted oaks with a shrubby understory of low to moderate density. In general, the understory within these patches of vegetation is uniform in species composition and includes saw palmetto, scrub oak, and herbaceous undergrowth. There is sloping at Third Street See Map B for aerial and & Appendix G for site photos.

### **C. Soils**

Two soil map units were identified at the CSX Property based on a review of the Soil Survey of Polk County, Florida, Soil Conservation Survey 1990 (Appendix C).

The soil overlying the CSX Property is characterized as follows:

*Candler* – Candler soils consist of a nearly level to sloping soil that is excessively drained. These soils formed in thick beds of unconsolidated sandy marine, eolian, or fluvial sediments. These soils are found in the upland, sandhill areas of the county. The water table of this soil is found below a depth of 80 inches throughout the year. Slopes are smooth to concave and range from 0 to 8 percent.

*Urban Land* – This soil is found in areas where more than 85 percent of the surface is covered by parking lots, streets, sidewalks, large buildings, and houses. The natural soil cannot be observed.

### **D. Fish and Wildlife**

No records of listed species occurrence or critical habitats from the Florida Fish and Wildlife Conservation Commission database were located within the project area. Rare wildlife seen in the vicinity includes the Blue Tailed Mole Skink. Other potential rare wildlife species include the Florida Scrub Lizard, Gopher Tortoise, Florida Scrub Jay, and Sand Skink. Non-rare wildlife that can potentially be seen on or near the site includes raccoons, grey squirrels, and songbirds.

### **E. State and Federally Listed Endangered or Threatened Species**

The Florida Natural Areas Inventory (FNAI) has no documented rare species occurrences on site, although several rare species have potential to occur on the property based on nearby records (Appendix D & Table below).

No records of listed species occurrence or critical habitats listed in the Florida Fish and Wildlife Conservation Commission (FFWCC) database were located within the project area. Maps showing biodiversity hotspots, priority wetlands for listed species, Strategic Habitation Conservation Area for sand skinks, and land cover for the project area are included in the FFWCC response and can be found in Appendix E.

Table 1 –Potential Rare Species

Common name	Scientific name	FNAI Global Rank	FNAI State Rank	Federal Status	State Status
<b>Rare Plants</b>					
Britton's Beargrass	<i>Nolina brittoniana</i>	G3	S3	LE	LE
Florida Bonamia	<i>Bonamia grandiflora</i>	G3	S3	LT	LE
Florida Jointweed	<i>Polygonella basiramia</i>	G3	S3	LE	LE
Paper-like Nailwort	<i>Paronychia chartacea</i> ssp. <i>Chartacea</i>	G3T3	S3	LT	LE
Scrub Bluestem	<i>Schizachyrium niveum</i>	G1	S1	N	LE
Scrub Pigeon-wing	<i>Clitoria fragrans</i>	G3	S3	LT	LE
Scrub Stylisma	<i>Stylisma abdita</i>	G3	S3	N	LE
<b>Rare Animals</b>					
Florida scrub-jay	<i>Aphelocoma coerulescens</i>	G2	S2	LT	LT
Blue-tailed Mole Skink	<i>Eumeces egregius lividus</i>	G5T2	S2	LT	LT
Florida Scrub Lizard	<i>Sceloporus woodi</i>	G3	S3	N	N
Gopher Tortoise	<i>Gopherus polyphemus</i>	G3	S3	N	LT
Sand Skink	<i>Neoseps reynoldsi</i>	G2	S2	LT	LT

**F. Water Resources**

There are no water resources on this property. Crooked Lake, located approximately 8 miles south of the trail also along the Ridge Scenic Highway, is designated as a Florida Outstanding Water (Map C).

**G. Swaps, marshes and other wetlands.**

There are no beaches, dunes, swamps, marshes, or other wetlands on site.

**H. Mineral Resources**

There are no known mineral resources, such as oil, gas, or phosphate, on this property.

**I. Unique Natural Features**

There are no unique natural features, such as coral reefs, caverns, known sinkholes, timber stands, or scenic vistas on the site.

**J. Outstanding Native Landscapes**

There are no outstanding native landscapes, such as unaltered flora, fauna or geological conditions observed on this property.

**K. Archaeological/Historical Resources**

A review of the Florida Master Site File by the Florida Department of State, Division of Historical Resources (DHR) disclosed no known archaeological or historical features on this site. DHR believes there is a low probability of significant, unrecorded sites being located in this area (Appendix F).

However, it should be noted that the property has historical significance to the City of Lake Wales, and is located adjacent to the designated Residential Historic District listed on the National Register of Historic Places

### **III. USE OF PROPERTY**

#### **A. Previous Use and Development**

For approximately 70 years, the subject property was used for a rail line and freight depot. The property was formerly owned by the Lake Wales Land Company, and became part of the Seaboard Airline (SAL) railway system in 1916. The rail line delivered citrus, lumber, turpentine and other freight between Nalaca, a community east of Lake Wales, and Tampa. In 1967 SAL merged with the Atlantic Coast Line to become the Seaboard Coast Line (SCL), and subsequently became part of CSX Transportation in 1986. The line was discontinued in 1989. The depot building, which was located on the west end of the property, was donated to the City of Lake Wales and removed in 1976. There are remains of a bridge that previously crossed the rail bed located at 3<sup>rd</sup> Street. The City will look into the feasibility of restoring this bridge for additional access to the Trail.

#### **B. Current Public Use and Land Use**

The property has been vacant for nearly 20 years. There is currently no legal public use or development on the property. Nearby businesses have used a portion of the site for parking over the years, but this should not be an issue once the property is developed. If encroachment problems arise in the future, a letter will be sent to the violating property owner to resolve the encroachment problem. If the encroachment problem is not resolved by the violator, the City's Municipal Code Enforcement Boards will be notified to fine the violator.

#### **C. Planned Uses – Single Use/Recreation**

The property will be managed by the City of Lake Wales as a single use property for recreation. No alternative or multiple uses were considered for this site. The primary purpose of the acquisition is to extend the existing Lake Wales Rails to Trails approximately ¼ mile to Lake Ridge Scenic Highway (SR17). A section of the property will also be used for parking to support the trail and the proposed Trailhead Center, which will be housed in the 1920 City Barn known as the CSX Building located on adjacent city-owned property. No renewable or non-renewable resources will be impacted by the planned uses.

The trail will be an integral part of the Mimi Reid Hardman Recreation and Cultural Complex, which is the location of the former high, middle, and elementary school campus that is currently undergoing restoration. The 18.5 acre complex consists of a gymnasium, a community theatre, a forthcoming Performing Arts Center, The Boys and Girls Club, and the City Barn which will function as the Trailhead Center (Map D).

## Amenities

**Trail** - Plans for the property include the construction of a ¼ mile, 12-foot wide, paved recreational trail that will extend the existing Lake Wales Rails-to-Trails, which begins at Fourth Street and extends east to Buck Moore Road, to Ridge Scenic Highway (SR17). When complete, the trail will be approximately 2.1 miles in length, and will provide enhanced public access to surrounding recreational, cultural, and educational facilities. Primary uses of the trail will include hiking, biking, jogging, in-line skating and other social and fitness related activities. It will also serve as a means of alternative transportation for nearby residents due to the proximity of a wide variety of community venues.

**Trailhead Center** – The 1920 City Barn, also known as the CSX Building, is located on city-owned land adjacent to the Rails-to-Trails property and will be the location of The Trailhead Center. It will serve as a welcome center to direct visitors to other area attractions, and will provide restrooms and other support for trail users.

The Center will also provide a venue for instilling an understanding and appreciation for the history of the City of Lake Wales and the railroad which was instrumental in its creation through the use of interpretive displays. It will also be an educational/ meeting venue for environmental, historical, cultural, educational and other civic groups.

**Parking** - Plans for the subject property also includes a parking area to support the trail and the proposed adjacent Trailhead Center. Initially, the parking area will be a natural area. Consideration will be given to paving or otherwise developing the parking area should funding become available in the future.

**Signage** - The City will erect a permanent sign at a major access point for the trail crediting the Florida Department of Environmental Protection, Office of Greenways and Trails (OGT), for funding assistance. The sign will include the OGT color logo and the text crediting OGT for funding assistance. The sign design must be approved by OGT prior to construction.

There will be a kiosk or other signage to convey the rules of the trail.

There will be interpretive signage, including a historic marker at Scenic Highway commemorating the railroad and signs about plants and animals along the entire length of the 2.1 mile of trail.

**Landscaping** - In accordance with the contamination remediation guidelines described in Section IV A of this plan, the trail shoulder area off the paved surface will contain dense native vegetation that requires little or no maintenance and produces no flowers or berries that would encourage trail users to leave the paved trail. In the future there may be additional beautification landscaping along the trail and surrounding area.

**Other** – Other future amenities include benches, bike racks, trash cans, water fountains, and a picnic table.

#### **D. Adjacent Land Uses**

Land use on adjoining properties consists primarily of mixed commercial and residential.

Along the Eastern boundary is 5<sup>th</sup> street and a residential area. The existing trail to which this project will connect is also found on the Eastern boundary.

Along the Western boundary is Ridge Scenic Highway (SR 17). Across SR 17 are commercial buildings, including an antique shop.

Along the Southern boundary is the former high, middle, and elementary school campus, which is now the site of Mimi Reid Hardman Recreation and Cultural Complex. The 18.5 acre complex consists of a gymnasium, a community theatre, a forthcoming auditorium, The Boys and Girls Club, and the City Barn which will function as The Trailhead Center (Map D).

On the Northern boundary is City right-of- way and Kissimmee Avenue. Across Kissimmee Avenue at the North west end is an automobile repair shop. At the Northeast end is Lake Alta.

None of the adjacent land uses conflict with the intended use of this property.

#### **E. Potential Surplus Land**

All of the land within the project boundary is necessary for the development of the trail and trail related uses and none should be considered or declared surplus.

#### **F. Prospective Land Acquisitions**

There is no other land that needs to be acquired for this project. However, as trails continue to be developed throughout the county, and recreation and transportation needs continue to grow, extension of the trail may become part of a future plan. A section of rail bed across Ridge Scenic Highway, currently owned by CSX, could be identified for possible acquisition. Identification of this land is for planning purposes only and does not infringe on the property rights of any adjacent landowners.

## IV. MANAGEMENT ISSUES, GOALS, OBJECTIVES

Central to the management of the trail is the mission of the Florida Department of Environmental Protection's Office of Greenways and Trails' (OGT), the land acquisition program through which this specific trail property was acquired and the original intent for acquiring the property. Management responsibilities are designated in the sublease between the OGT and the City of Lake Wales (Appendix A).

### A. Contamination

An environmental assessment revealed that portions of the property were contaminated with arsenic and other toxic substances. In response, the Florida Department of Environmental Protection's Bureau of Waste Cleanup recommended the following:

Construction of a concrete or asphalt walkway could serve as an engineering control to address direct exposure to soil along portions of the proposed trail near Lake Wales where contamination above applicable criteria was identified. A width of 12 feet is recommended, with narrower widths appropriate based on delineation of arsenic and/or Polynuclear Aromatic Hydrocarbons (PAHS) above Soil Cleanup Target Levels (SCTLs). No engineering control is required along portions of the proposed trail where concentrations of arsenic or PAHs are not above SCTLs. Soil excavation is not required along trail segments that are paved within the recommended source removal areas depicted on Figure 5 in the Phase II ESA report. However, contaminated soil in the trail shoulder area off the paved surface will need removal or covered with two feet of clean fill out to the edge of dense native vegetation. The fill-covered strips should be vegetated with permanent vegetation that requires little or no maintenance and produces no flowers or berries that would encourage trail users to leave the paved trail. This risk based alternative to removal of soil with constituents above applicable criteria requires that the institutional control used to restrict this property to recreational/park use only, which is usually a deed restriction, include assurance of proper maintenance for engineering controls as long as needed. The institutional control would also need to address possible exposure to, and disposal of, contaminated soil when disturbed during future site improvements or other projects.

With regard to possible leachability of contaminants to groundwater, both arsenic and PAHs showed greatly reduced concentrations from the shallow to deeper samples at all multi-level sampling locations. Placement of an impervious surface above contaminated soil should arrest downward migration of arsenic and PAHs to groundwater beneath the trail, and accomplish the same goal as soil removal with regard to leachability. As recommended in the Phase II ESA report, a shallow groundwater sample should be taken at the SS-17 soil sampling location and analyzed for PAHs. It is also recommended that a shallow groundwater sample for arsenic be taken at the SS-5 location. If results for both

samples show concentrations below Groundwater Cleanup Target Levels (GCTLs), no further action for groundwater is needed. If arsenic or PAHs are detected above GCTLs, then further evaluation in accordance with Chapter 62-780.680(2) or (3), F.A.C. is recommended to achieve an acceptable risk based closure for groundwater impacts.

On April 3, 2006, the report was issued on the additional testing that was conducted as suggested for locations SS-17 and SS-5 and were well below the GCTL's. Further testing was not recommended.

Prior to the construction of the trail, the City will post signs marked "No Trespassing" and will erect barriers that prohibit use of the trail corridor until such time as the contaminated areas of the subleased premises are mediated in accordance with the approved Management Plan. The City will ensure that activities within the subleased premises minimize the creation of dust and prevent dermal contact with the affected soil. No affected soil shall be excavated without prior written approval of the Office of Greenways and Trails and the Department of Environmental Protection, Division of Waste Management.

Phase I and Phase II Environmental Site Assessments and can be found in Appendix I.

## **B. Trail Development**

The Florida Department of Transportation (FDOT) will oversee the design and construction the recreational trail. The trail will be a ¼ mile 12 foot wide asphalt path with a lime rock base that will meet FDOT standards, and will be developed in accordance with the guidelines set forth by the Florida Department of Environmental Protection's Bureau of Waste Clean-Up described above to minimize exposure to the arsenic that is present in the soil along portions of the corridor. FDOT will also be responsible for acquiring a temporary construction easement from the Florida Department of Environmental Protection and any required permits associated with the project.

## **C. Trailhead Center & Hardman Recreational and Cultural Complex**

The 1920 City Barn, also known as the CSX Building, is located on city-owned land adjacent to the Rails-to-Trails property and will be the location of The Trailhead Center. It will serve as a welcome center to direct visitors to other area attractions, and will provide restrooms and other support for trail users. The Center will provide a venue for instilling an understanding and appreciation for the history of the City of Lake Wales and the railroad which was instrumental in its creation through the development of interpretive displays. It will also be an educational/meeting venue for environmental, historical, cultural, educational and other civic groups.

The Trailhead Center and the Trail will be an integral part of the Mimi Reid Hardman Recreation and Cultural Complex, which is the location of the former high, middle, and elementary school campus that is currently undergoing restoration. The 18.5 acre complex consists of a gymnasium, a community theatre, a forthcoming Performing Arts Center, The Boys and Girls Club, and the City Barn which will function as the Trailhead Center (See Map G).

The Trailhead Center, which was originally the Agriculture Building on the school campus has been partially restored and currently houses the City Public Works facility. The City will apply for a grant from the Division of Historical Resources to complete the restoration of the building, and will look for another location to house the Public Works facility. Once restoration is complete, the Trailhead Center will need to be furnished and stocked with publications and interpretive displays. The City will eventually look into the feasibility of hiring concessionaires to provide food and bicycle rentals. Initially, there will be vending machines to provide refreshments.

The former Jr. High Auditorium is undergoing restoration to become a Performing Arts Center. The City has been awarded a grant from the Division of Historical Resources (DHR) to complete the restoration of the building. However, the Florida Legislature has not yet provided funding for this grant, so the City will submit a completed “rollover” application to DHR in order to receive the funds when they become available.

The remaining buildings have been restored, and are being used as follows:

- Primary School – The Boys and Girls Club
- Gymnasium – Gymnasium
- Band Building – Community Little Theatre

#### **D. Soil and Water Protection**

Soil erosion is not a problem in the area. However, new vegetation will be planted along the trail in accordance with the contamination mediation guidelines presented in this plan that will enhance the stability of the soil.

With regard to possible leachability of contaminants to groundwater, both arsenic and PAHs showed greatly reduced concentrations from the shallow to deeper samples at all multi-level sampling locations. Paving of the trail will provide an impervious surface that should arrest downward migration of arsenic and PAHs to groundwater beneath the trail, and accomplish the same goal as soil removal with regard to leachability. (Appendix I).

There will be no additional hazardous materials stored on site. All appropriate storm-water requirements will be met.

#### **D. Clean-Up Property**

The property contains left-over railroad ties and other miscellaneous litter and debris. The City of Lake Wales will take responsibility for cleaning up the property, and will remove or trim back the overgrowth of vegetation.

#### **E. Trail Maintenance**

The City of Lake Wales will maintain the trail and be responsible for its upkeep. This includes mowing, removal of litter, and repairs needed for the trail due to normal use or vandalism.

#### **F. Exotic/Invasive Plants**

No exotic or invasive plants have been identified on the property. However, this will be confirmed via an on-site assessment by qualified personnel. If exotic or invasive plants are found on the site, they will be eradicated.

#### **G. Safety**

The City of Lake Wales shall identify potential hazards to public health within the project area, and will take appropriate measures to minimize risk to the public. The City of Lake Wales Police Department will include this area in its regular patrol.

#### **H. Defending Title**

The property will be identified through signage and protected from encroachment by use of vegetation or natural barriers, or fencing if necessary. Nearby businesses have used a portion of the property for parking over the years, but this should be less of an issue once the property is developed. If encroachment problems arise in the future, a letter will be sent to the violating property owner to resolve the encroachment problem. If the encroachment problem is not resolved by the violator, the City's Municipal Code Enforcement Boards will be notified to fine the violator. Bollards will be installed on the trail to prevent vehicles from using the trail.

#### **I. Role of the Office of Greenways and Trails**

The Office of Greenways and Trails (OGT) must review all proposed construction plans and any proposed plans for improvement, even if the construction or improvements are identified within the management plan. OGT must review all third party agreements for easements, concession agreements, or other actions affecting the site.

## **J. Goals and Objectives**

Goals and objectives were developed specifically for the Lakes Wales Rails-to-Trails based on the purposes for which the lands were acquired, the condition of the resources present, and management issues for the property. The goals and objectives presented here reflect programmatic goals and the ideas of the City of Lake Wales personnel in charge of managing and protecting the area, as well as input from cooperative managers, user groups and other stakeholders from outside the DEP. The agency believes the goals and objectives to be consistent with the various forms of guidance provided to managers.

The desired outcome and overall goal of the City of Lake Wales is to improve and expand recreational, educational, and cultural opportunities for its citizens.

### **Goal 1: Habitat Restoration and Improvement** (Not applicable)

The property consists of one 3.02 acre rectangular shaped parcel of land, which widens on the western boundary to generally create the resemblance of the shape of a “toothbrush”. The western section of the property, the wider portion close to Ridge Scenic Highway (SR17), is flat, grassy, with a few trees and sandy spots. The strip, or abandoned rail bed, is grassy with sections overgrown with trees and brush. The property is highly disturbed due to past use as a railroad corridor. The parcel was purchased to provide a paved multi-use trail and parking area, and not for its environmental resources.

### **Goal 2: Public Access and Recreational Opportunities**

The City of Lake Wales’ 2015 Comprehensive Plan directs that the City “provide recreation facilities on municipal park and recreation lands to meet the expressed needs and demands of city residents by 2010”. Additionally, the comprehensive plan states that “it shall be the goal of the City of Lake Wales to identify, document, protect, and preserve its archaeological, historic, architectural and cultural resources.....and that instilling public awareness of those resources shall be a part of the effort” (Appendix B). Completion of the Lake Wales Rails-to-Trails will improve and expand recreational, educational, and cultural opportunities for the City’s citizens and visitors and will accomplish the following objectives:

- Contribute to the Polk County Unified Greenway System and the Statewide System of Greenways and Trails.
- Enhance accessibility to recreational, cultural, and educational facilities for all residents and visitors.
- Provide a 2.1 mile paved trail for hiking, biking, jogging, in-line skating, and other social and fitness related activities.
- Extend the existing trail to Ridge Scenic Highway (SR 17) and provide for a future connection to the planned Ridge Scenic Highway bike path.

- Connect the Lake Wales Rails to Trails to the Trailhead Center and the Mimi Reid Hardman Recreation and Cultural Complex and other community resources.
- Provide a place of rest and refreshment for trail users.
- Introduce new sources of public education to the surrounding area.
- Provide an alternative mode of transportation to local community venues.

The trail and the adjacent Trailhead Center will be an integral part of the Mimi Reid Hardman Recreation and Cultural Complex, which is the location of the former high, middle, and elementary school campus that is currently undergoing restoration. The 18.5 acre complex consists of a gymnasium, a community theatre, a forthcoming Performing Arts Center, The Boys and Girls Club, and the City Barn which will function as the Trailhead Center (Map G).

Providing educational and interpretive information to instill in visitors an understanding and appreciation of the history of the City of Lake Wales and the railroad that was instrumental in its development will be an important aspect of the overall project.

#### Short Term

- 1) Provide an additional ¼ mile of paved multi-use trail. (2010)
- 2) Provide parking area to give trail access for an additional 45 vehicles. (2010)
- 3) Provide one additional historical/cultural education opportunity by installing historic marker at Scenic Highway (SR17) commemorating the railroad. (2011)
- 4) Provide three additional environmental education opportunities by installing three interpretive signs about plants and animals along 2.1 mile of trail. (2011)

#### Long Term

- 1) Provide three additional historical/cultural education opportunities through the design and installation of three interpretive displays at the Trailhead Center. (2013)

### **Goal 3: Capital Facilities and Infrastructure**

The primary purpose of the acquisition is to extend the existing Lake Wales Rails-to-Trails an additional ¼ mile to Ridge Scenic Highway (SR 17) and to provide a parking area to support the trail and the adjacent Trailhead Center.

#### Short Term (2010-2011)

- 1) Complete paving of ¼ mile recreational trail extension. (2010)
- 2) Remediate contamination in accordance with guidelines set forth by the Florida Department of Environmental Protection's Bureau of Waste Clean-Up to minimize exposure to the arsenic that is present in the soil along portions of the corridor. FDOT will oversee as part of trail construction. (2010)
- 3) Provide unimproved parking for 45 vehicles. (2010)
- 4) Install historic marker at Scenic Highway commemorating the railroad. (2011)

- 5) Install 3 interpretive signs about plants and animals along 2.1 mile of trail. (2011)
- 6) Erect one permanent sign crediting the Florida Department of Environmental Protection, Office of Greenways and Trails (OGT), for funding assistance in accordance with guidelines provided by the OGT. (2010)
- 7) Submit “rollover” application to the Division of Historical Resources to secure grant funding for last phase of restoring the 1919 Performing Arts Auditorium when funds become available. (2009)
- 8) Mow and routine maintenance of 2.1 mile trail property. (ongoing)
- 9) Monitor trail for visitor impacts. (annually)

Long Term (2010-2020)

1. Mow and routine maintenance of 2.1 mile trail property. (ongoing)
2. Monitor trail for visitor impacts. (annually)
3. Install trail 2 benches, 2 trash cans, and 2 bike racks. (2012)
4. Install one picnic table at Trailhead Center. (2013)
5. Develop landscaping plan. (2012)
6. Landscape. (2015)
7. Design and construct paved parking lot. (2020)
8. Furnish Trailhead Center and stock with publications. (2012)
9. Apply for grant from Division of Historical Resources (DHR) to complete interior restoration of Trailhead Center. (2013)
10. Complete restoration of Trailhead Center. (2016)
11. Submit “roll over” application to DHR for Performing Arts Center Restoration Grant. (2009).
12. Complete restoration of Performing Arts Center. (2015)
13. Design and install three interpretive displays for Trailhead Center. (2013)
14. Determine feasibility of having a concessionaire provide food services at Trailhead Center. (2016)
15. Determine feasibility of having a concessionaire provide bike rentals at Trailhead Center. (2016)
16. Determine feasibility of restoring 3<sup>rd</sup> Street bridge over trail. (2019)

**Goal 3: Hydrological Preservation and Restoration** (Not Applicable)

There are no hydrological resources on the property.

**Goal 4: Sustainable Forest Management** (Not Applicable)

There are no timber resources on the property.

### **Goal 5: Exotic and Invasive Species Maintenance and Control**

No exotic or invasive plant species or exotic and nuisance animal species are known to currently exist within this 3.02 acre parcel. However, an on-site assessment will be conducted by qualified personnel to confirm. If exotics or invasive plants are found on this small parcel, steps will be taken to have them removed.

- 1) Conduct on-site assessment to determine if there are any exotic and invasive species on site. (2009)
- 2) Eradicate exotic and invasive plant species, if found. (2010)

### **Goal 7: Cultural and Historical Resources Management**

The management of cultural resources is often complicated because these resources are irreplaceable and extremely vulnerable to disturbances. The advice of historical and archaeological experts is required in this effort. Approval from Department of State, Division of Historical Resources (DHR) must be obtained before taking any actions, such as development or site improvements that could affect or disturb the cultural resources on state lands. A statement of DHR's policies and procedures for the management and protection of cultural resources is contained in Appendix F.

Actions that require permits or approval from DHR include development, site excavations or surveys, disturbances of sites or structures, disturbances of the substrate, and any other actions that may affect the integrity of the cultural resources. These actions could damage cultural resources.

As stated in Section II, no significant historical or archaeological resources are reported from the site and DHR believes there is a low probability of significant, unrecorded sites being located in this area.

#### **Short Term/Long Term**

- 1) Conduct all ground disturbing activities in accordance with DHR guidelines. (2010)
- 2) Report all suspected historical/archaeological resources if discovered. (ongoing)

### **Goal 8: Imperiled Species Habitat Maintenance, Enhancement, Restoration, or Population Restoration**

No listed endangered or threatened species have been identified on the property, but a site assessment by qualified personnel will be conducted due to a 1984 record of the blue-tailed mole skink in the vicinity and the existence of rare plants located within the Lake Wales Ridge Wildlife and Environmental area located two miles away. Should it be determined that there is suitable scrub for the blue tailed mole skink or other endangered species, the Florida Fish and Wildlife Conservation Commission and the U.S. Fish and Wildlife Service will be contacted for further guidance. If the future survey reveals that rare plants occur on the property, Bok Tower Garden's Conservation

Program will be contacted regarding the conservation of rare plants or their seed stock from the site.

- 1) Conduct an on-site survey to evaluate the suitability of the scrub habitat for the blue tailed mole skin or other protected species. (2009)
- 2) Seek guidance from the Florida Fish and Wildlife Conservation Commission and the U.S. Fish and Wildlife Service for the protection of any threatened or endangered species, if applicable. (2009)
- 3) Conduct an on-site survey to evaluate the presence of rare scrub plants. (2009)
- 4) Contact Bok Tower Garden's Conservation Program regarding the protection or relocation of any rare plant species found on-site, if applicable. (2009)

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Table 2  
LAKES WALES RAILS TO TRAILS  
PRIORITY AND COST SCHEDULE

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	TOTALS
<b>Resource Management</b>													
Remove trash and railroad debris	\$1,000												\$1,000
Beautification Landscaping							\$6,000						\$6,000
Mowing and routine maintenance		\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$16,500
<b>Totals</b>	<b>\$1,000</b>	<b>\$1,500</b>	<b>\$1,500</b>	<b>\$1,500</b>	<b>\$1,500</b>	<b>\$1,500</b>	<b>\$7,500</b>	<b>\$1,500</b>	<b>\$1,500</b>	<b>\$1,500</b>	<b>\$1,500</b>	<b>\$1,500</b>	<b>\$23,500</b>
<b>Capital Improvements</b>													
Provide unimproved parking	\$0												\$0
Design and construct Trail includes contamination remediation		\$259,000											\$259,000
Install Funding Source Acknowledgement Sign		\$1,000											\$1,000
Install historic marker at SR17			\$2,000										\$2,000
Install interpretive signs about plants & animals along trail			\$5,000										\$5,000
Complete Performing Arts Auditorium Restoration				\$350,000									\$350,000
Install benches, trash cans, bike racks				\$5,000									\$5,000
Design/Install interpretive displays for Trailhead Center					\$2,000								\$2,000
Design/Construct Paved Parking Lot												\$200,000	\$200,000
Complete Trailhead Center Restoration								\$350,000					\$350,000
Determine feasibility of restoring 3rd Street bridge over trail													\$0
<b>Totals</b>	<b>\$0</b>	<b>\$260,000</b>	<b>\$7,000</b>	<b>\$355,000</b>	<b>\$2,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$350,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200,000</b>	<b>\$1,174,000</b>
<b>Visitor Services/Recreation</b>													
Furnish/Stock Trailhead Center				\$2,000									\$2,000
Determine feasibility of concessionaire providing food services													\$0
Determine feasibility of concessionaire providing bike rentals													\$0
<b>Totals</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,000</b>

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Table 2 cont.  
LAKES WALES RAILS TO TRAILS  
PRIORITY AND COST SCHEDULE

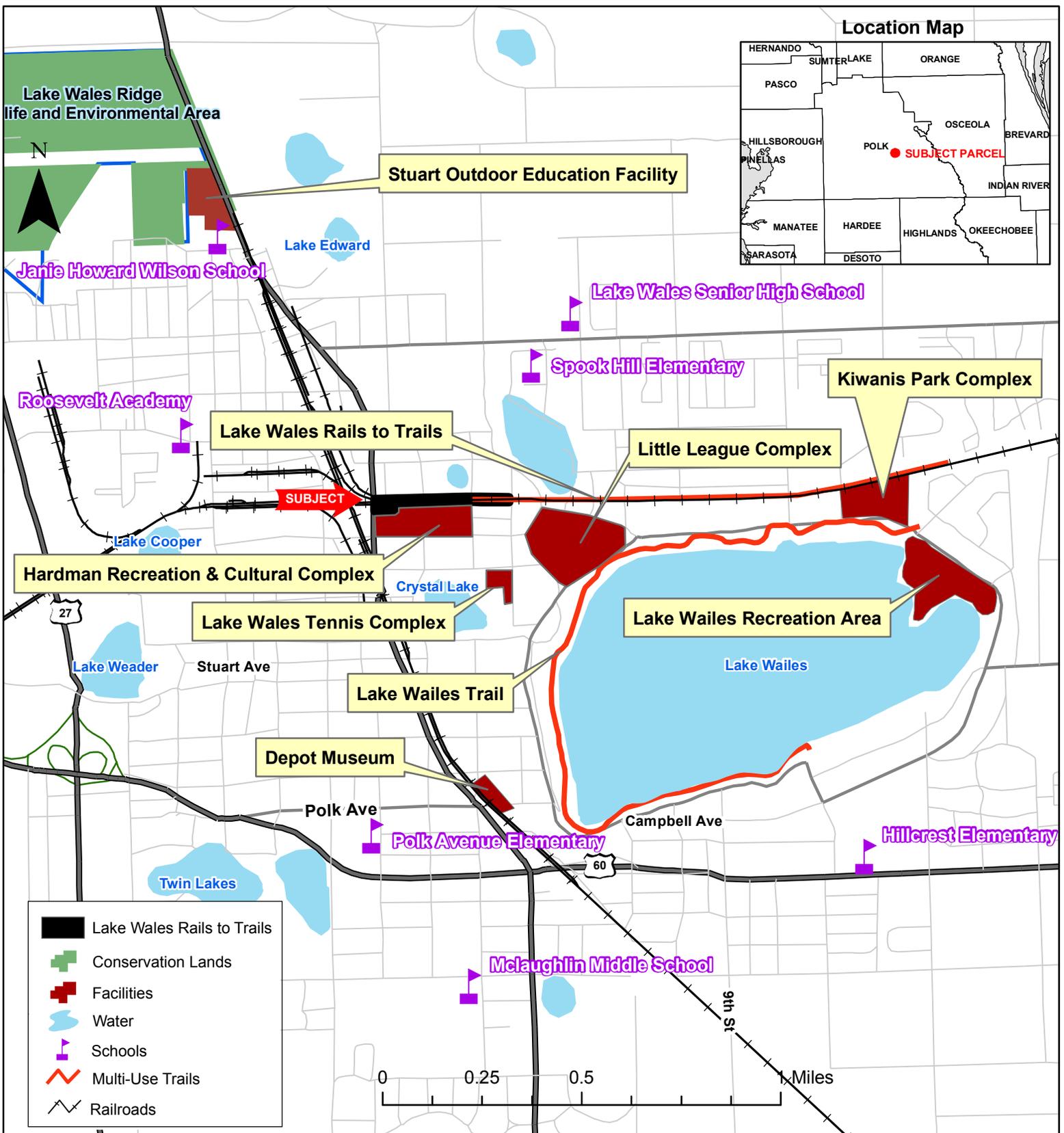
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	TOTALS
<i>Administration</i>													\$0
Submit "rollover" application for Performing Arts Auditorium Restoration Grant													\$0
Apply for Trailhead Center Restoration Grant													\$0
<b>Totals</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTALS</b>	\$1,000	\$261,500	\$8,500	\$358,500	\$3,500	\$1,500	\$7,500	\$351,500	\$1,500	\$1,500	\$1,500	\$201,500	\$1,199,500
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	

Total 20 year cost = \$1,199,500

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MAPS

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# Lake Wales Rails to Trails

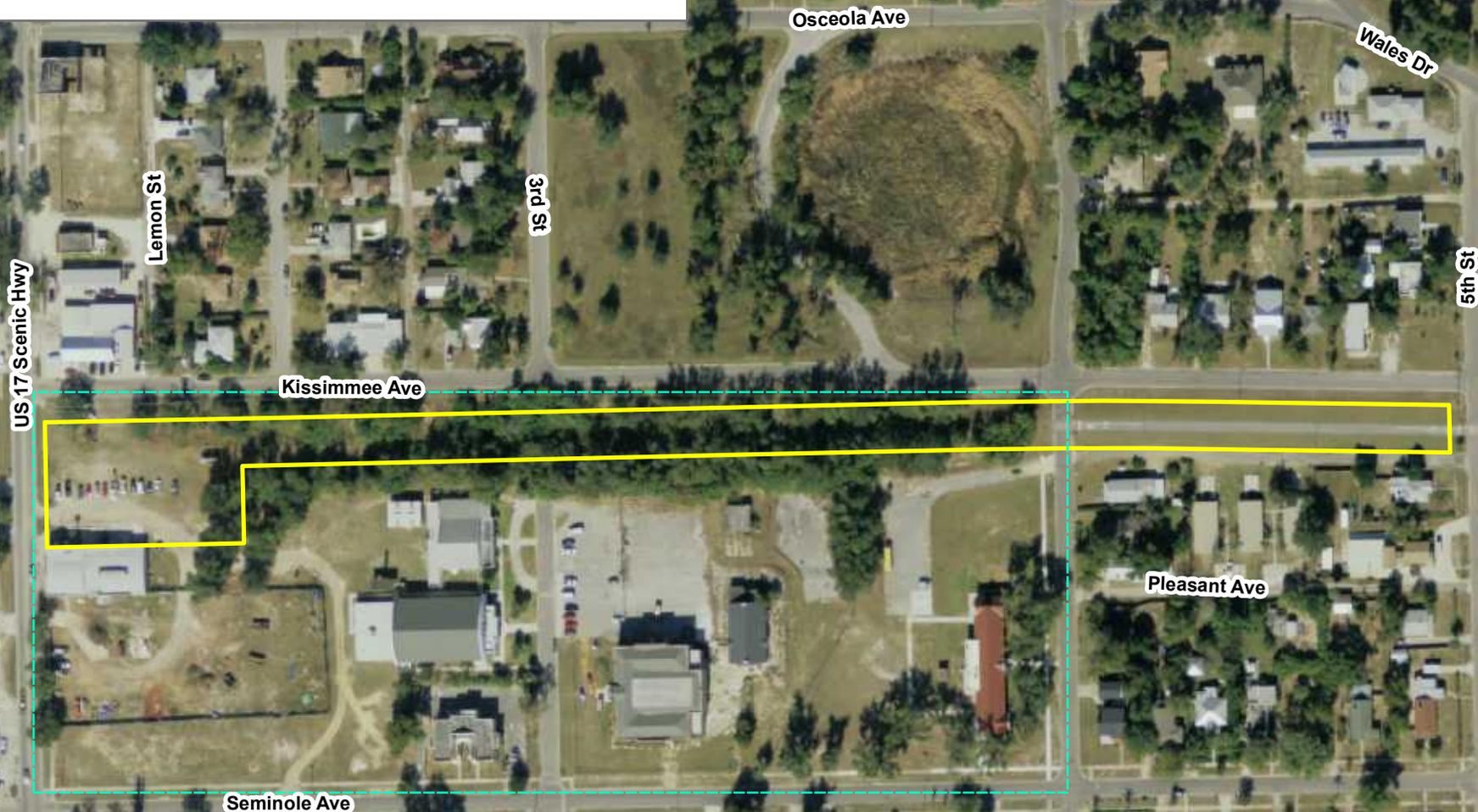
## Map A: Location Map

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# Lake Wales Rails to Trails

Map B: Aerial Photo Map

N



**Legend**

-  Lake Wales Rails to Trails
-  Hardman Complex Boundary



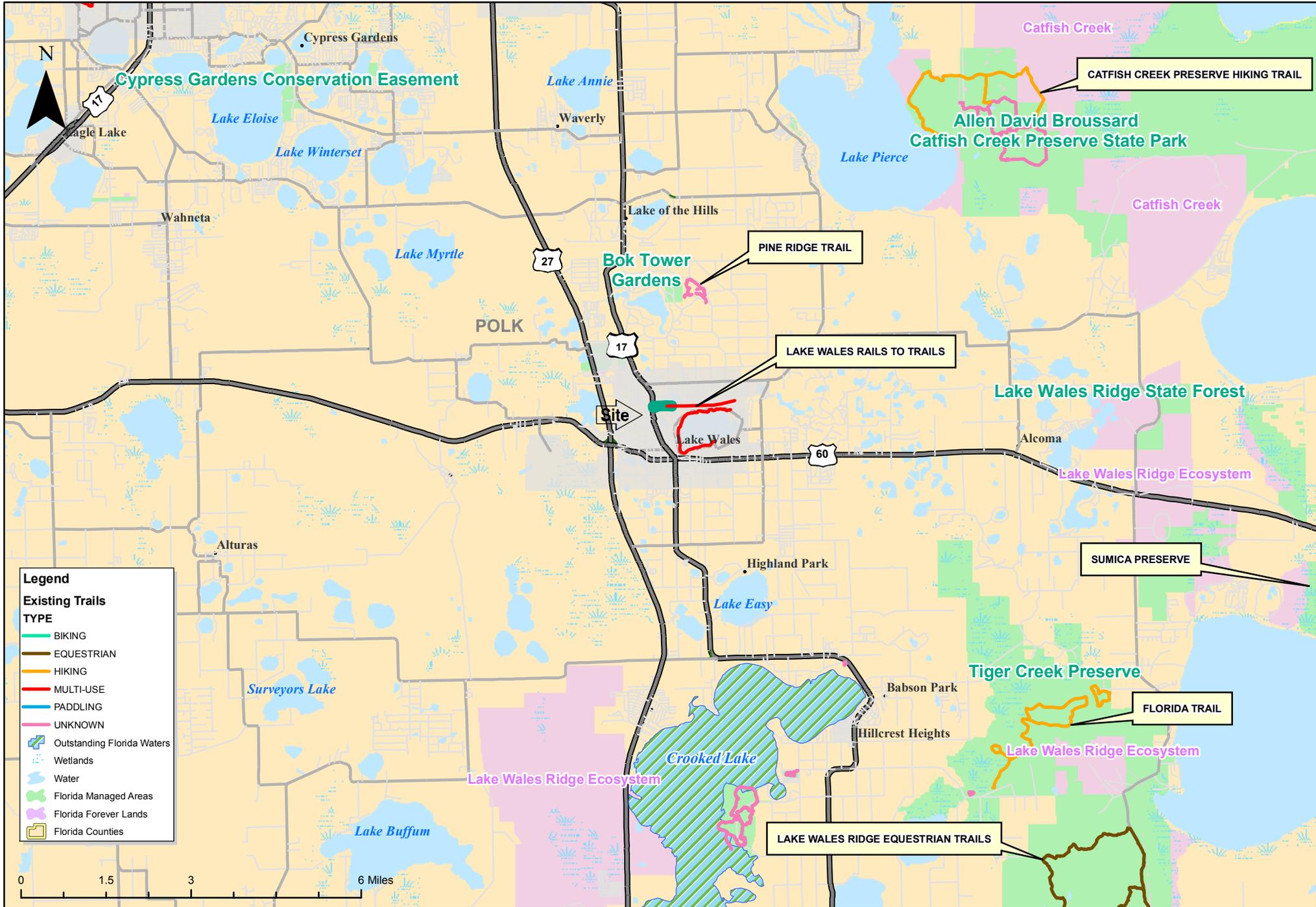
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# Map C. Lake Wales Rails to Trails Proximate State, Local, Federal Land or Water Resources

This map was produced the Office of Greenways & Trails GIS section for display purposes only. Any other use is not advised.

July 13, 2009



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# Polk County Trails Map

## Trail Photos



Trailhead for the Florida National Scenic Trail



Lakeland Highlands Scrub



Bicyclists loading their bikes onto a Citrus Connection Bus



Completed portion of the Chain of Lakes Trail



Lake Hollingsworth Trail - part of Lakeland's Lake-to-Lake Connector



Van Fleet National Recreational Trail

- Multi-Use Trails**
  - Existing Multi-Use Trail
  - Committed Multi-Use Trail
  - Proposed Multi-Use Trail
- Other Trails**
  - Florida National Scenic Hiking Trail
  - Hiking Trail
  - Existing Lake-to-Lake Bicycle Routes
  - Proposed Lake-to-Lake Bicycle Routes
  - Canoe Trail
  - Off-Road Bike Trail
- Public Lands & Greenways**
  - Conservation/Recreation Lands
  - Peace River Greenway
- Trailheads**
  - Paved Bicycle Path/Trail
  - Equestrian
  - Off-Road Bicycle
  - Hiking
  - Canoe
- Intermodal Facilities**
  - Airport Terminal
  - Amtrak Train Terminal
  - City Bus Terminal
  - Park & Ride Lot
  - Regional Bus Terminal
- Public Facilities**
  - Public Park
  - Community Center
  - Public/Private Schools
- Other Map Features**
  - Polk County Boundary
  - Lakes
  - Streams
  - Railroads
  - Roads
  - Major Roads and Highways

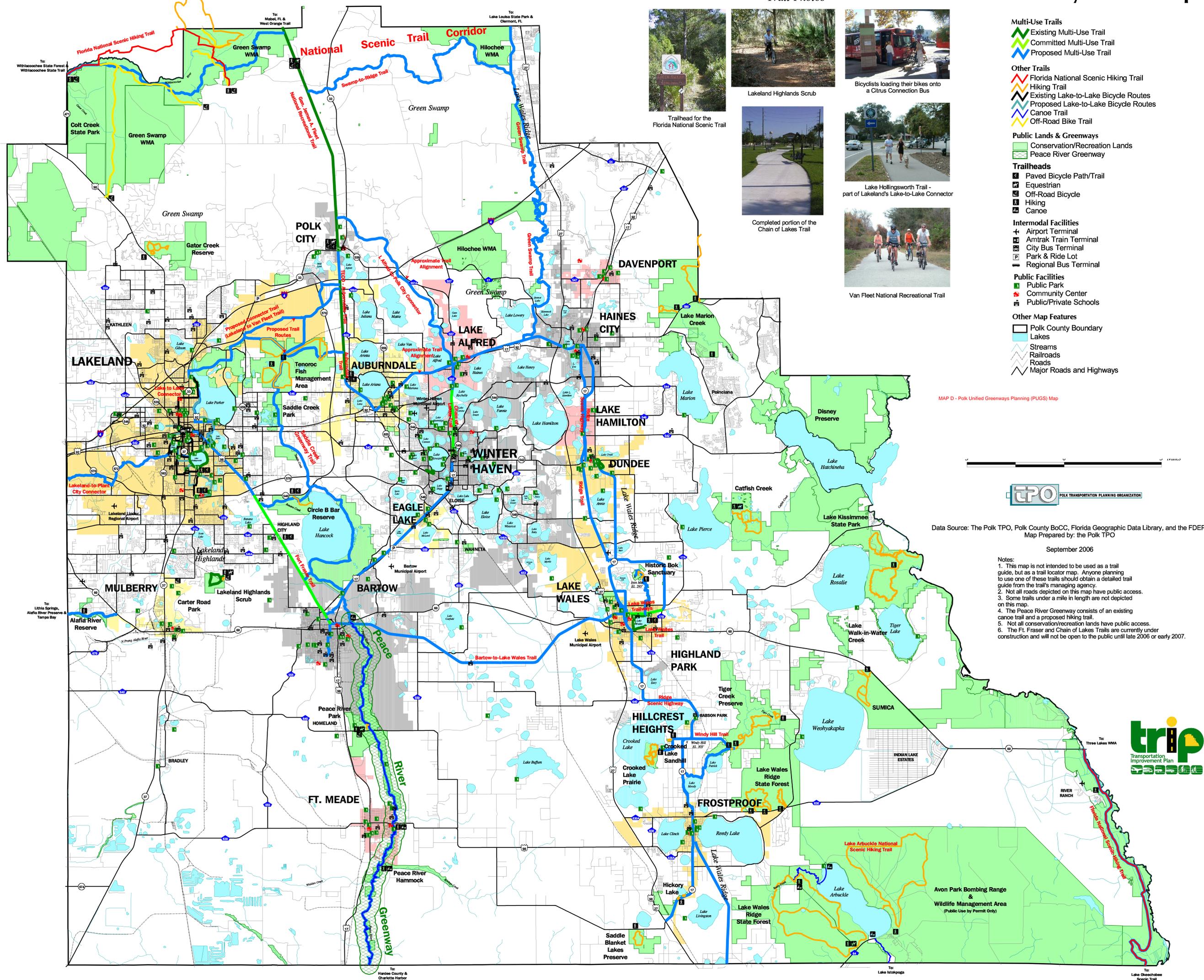
MAP D - Polk Unified Greenways Planning (PUGS) Map



Data Source: The Polk TPO, Polk County BoCC, Florida Geographic Data Library, and the FDEP.  
Map Prepared by: the Polk TPO

September 2006

- Notes:
1. This map is not intended to be used as a trail guide, but as a trail locator map. Anyone planning to use one of these trails should obtain a detailed trail guide from the trail's managing agency.
  2. Not all roads depicted on this map have public access.
  3. Some trails under a mile in length are not depicted on this map.
  4. The Peace River Greenway consists of an existing canoe trail and a proposed hiking trail.
  5. Not all conservation/recreation lands have public access.
  6. The Ft. Fraser and Chain of Lakes Trails are currently under construction and will not be open to the public until late 2006 or early 2007.

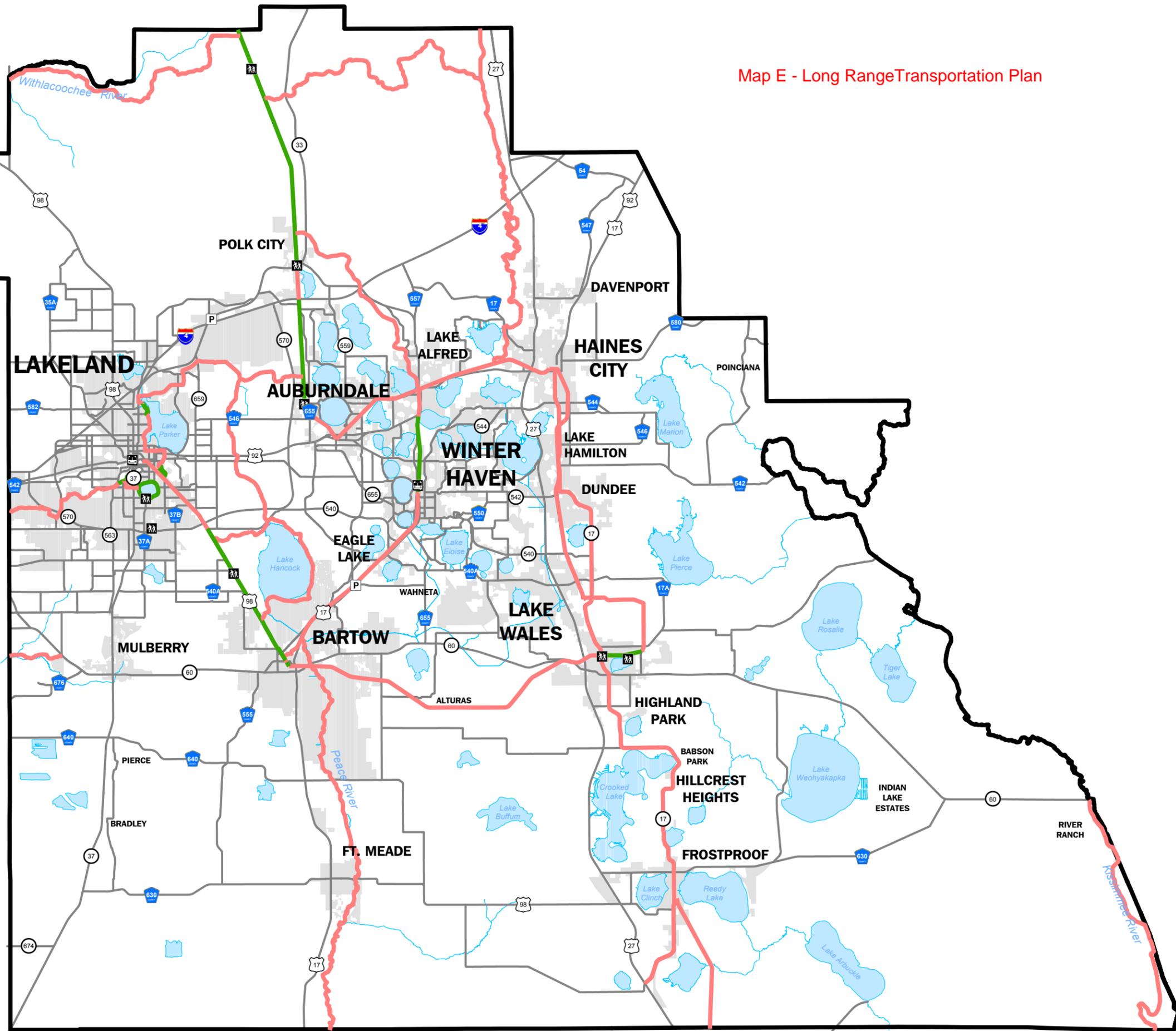


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# Regional Multi-Use Trail Network



Map E - Long Range Transportation Plan



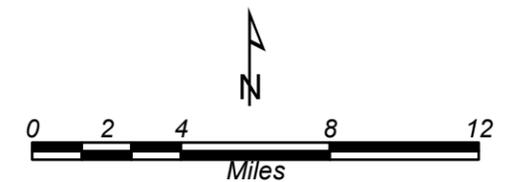
## Legend

### Regional Multi-Use Trails

- Existing & Committed Multi-Use Trails
- Proposed

### Other Map Features

- Transit Terminal
- Multi-Use Trailhead
- Park & Ride
- Major Roads
- Hydrology
- City Limits
- County Boundary

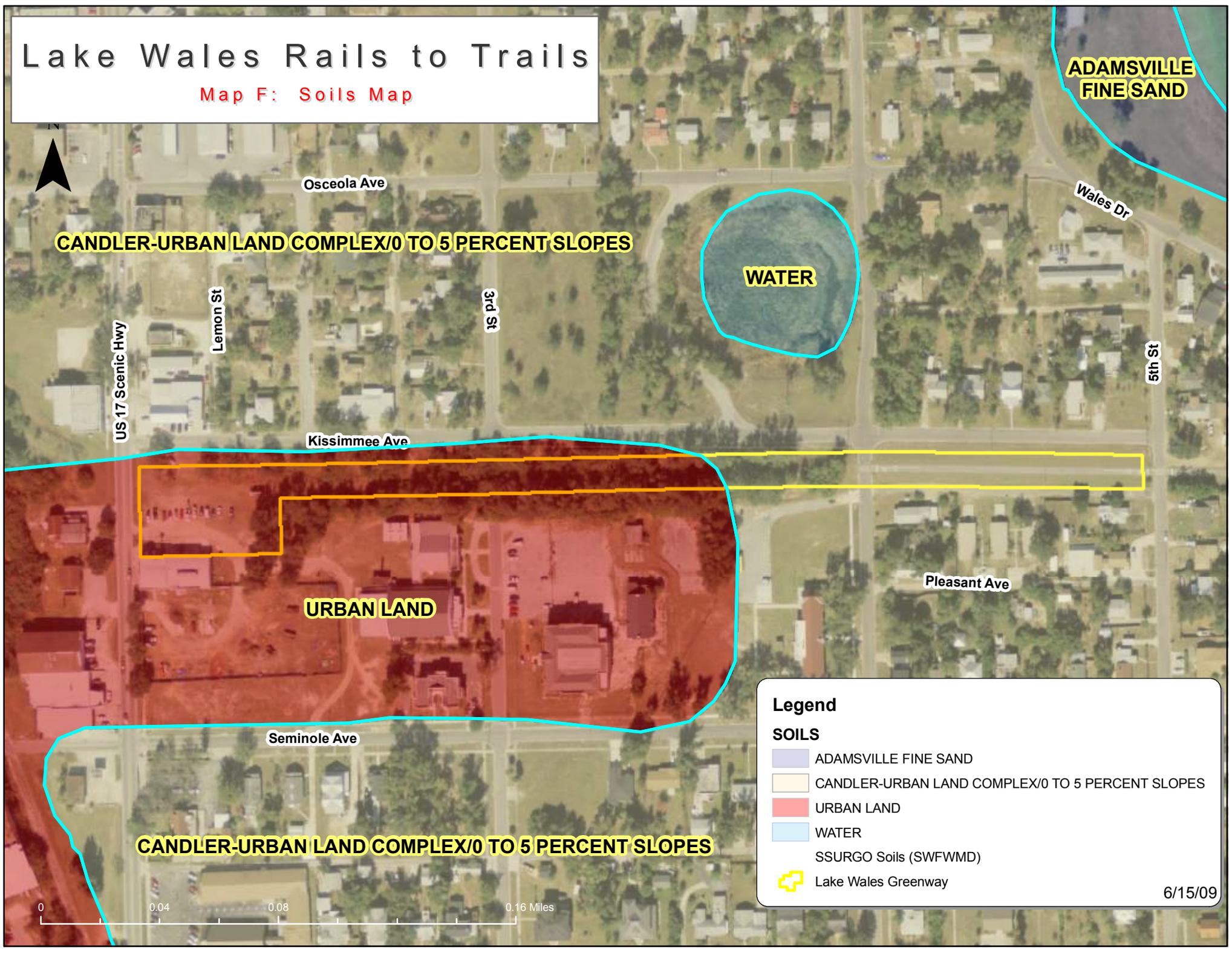


ADOPTED  
December 8, 2005

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# Lake Wales Rails to Trails

Map F: Soils Map



ADAMSVILLE FINE SAND

WATER

URBAN LAND

CANDLER-URBAN LAND COMPLEX/0 TO 5 PERCENT SLOPES

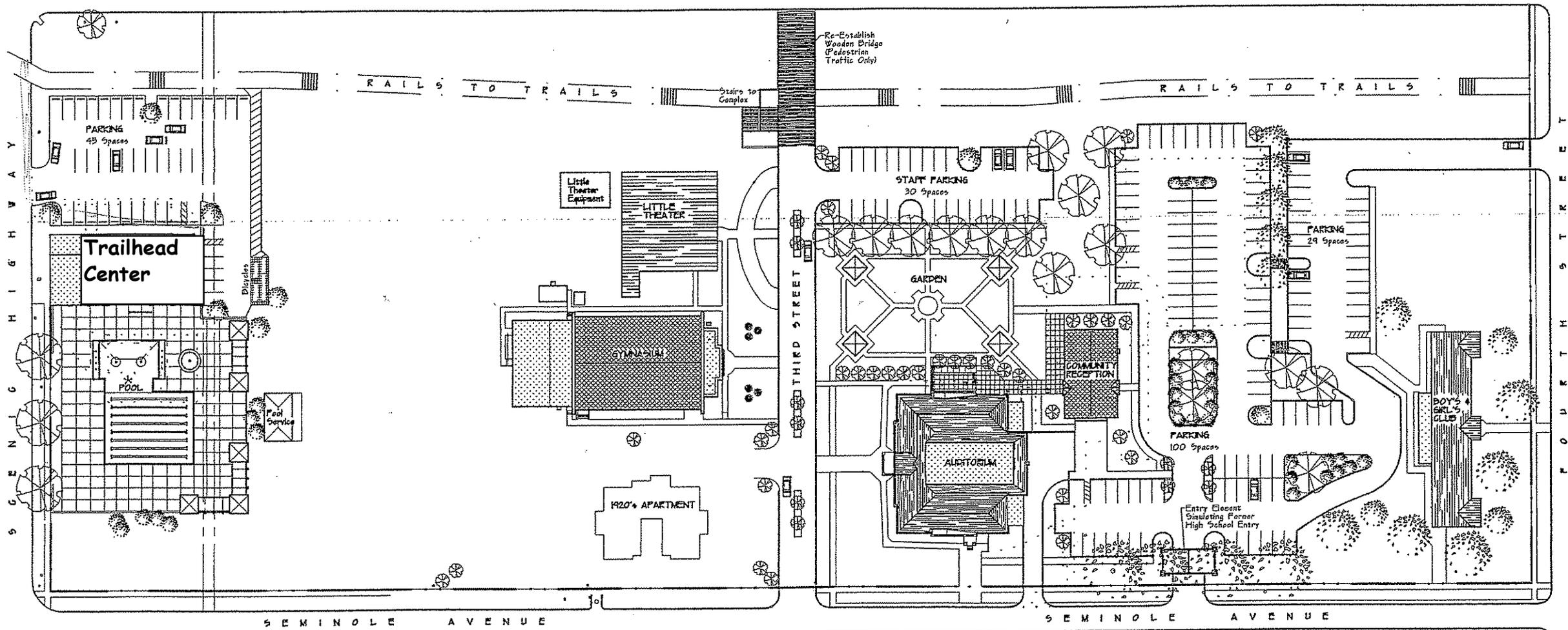
### Legend

#### SOILS

-  ADAMSVILLE FINE SAND
-  CANDLER-URBAN LAND COMPLEX/0 TO 5 PERCENT SLOPES
-  URBAN LAND
-  WATER
-  SSURGO Soils (SWFWMD)
-  Lake Wales Greenway

6/15/09

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# OVERALL MASTER COMPLEX SITE PLAN

Conceptual

SCALE: 1" = 20'-0"



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## APPENDIX A

Sublease, Lease, Quit Claim Deed, Legal Description

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STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION,  
OFFICE OF GREENWAYS AND TRAILS

SUBLEASE AGREEMENT  
LAKE WALES TRAILWAYS  
(3.02 acres)

Sublease Number 4546-01

THIS SUBLEASE AGREEMENT is entered into this 11th day of June 2008, by and between the STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF GREENWAYS AND TRAILS, hereinafter referred to as "SUBLESSOR", and the CITY OF LAKE WALES, FLORIDA, hereinafter referred to as "SUBLESSEE."

WITNESSETH

In consideration of the covenants and conditions set forth herein, SUBLESSOR subleases the below described premises to SUBLESSEE on the following terms and conditions:

1. ACKNOWLEDGMENTS: The parties acknowledge that title to the subleased premises is held by the Board of Trustees of the Internal Improvement Trust Fund of the State of Florida ("TRUSTEES") and is currently managed by SUBLESSOR as the Lehigh Greenway Rail Trail under TRUSTEES' Lease Number 4546.
2. DESCRIPTION OF PREMISES: The property subject to this sublease agreement is situated in the County of Polk, State of Florida, and is more particularly described in Exhibit "A" attached hereto and hereinafter referred to as the "subleased premises."
3. SUBLEASE TERM: This sublease shall commence on June 11, 2008 and end on December 7, 2056, unless sooner terminated pursuant to the provisions of this sublease.
4. PURPOSE: SUBLESSEE shall manage the subleased premises only for the conservation and protection of natural and historical resources and for resource based public outdoor recreation which is compatible with the conservation and protection of these public lands, as set forth in subsection 269.032(11), Florida Statutes, along with other related uses necessary for the accomplishment of this purpose as designated in the Management Plan required by paragraph 7 of this sublease.
5. CONFORMITY: This sublease shall conform to all terms and conditions of that certain lease between the TRUSTEES and SUBLESSOR dated December 8, 2006, a copy of which is attached hereto as Exhibit "B", and SUBLESSEE shall through its agents and employees prevent the unauthorized use of the subleased premises or any use thereof not in conformance with this sublease.
6. QUIET ENJOYMENT AND RIGHT OF USE: SUBLESSEE shall have the right of ingress and egress to, from and upon the subleased premises for all purposes necessary to full quiet enjoyment by said SUBLESSEE of the rights conveyed herein.

7. MANAGEMENT PLAN: SUBLESSEE shall prepare and submit a Management Plan for the subleased premises in accordance with subsection 18-2.021(4), Florida Administrative Code, within 12 months of the effective date of TRUSTEES' Lease Number 4546. The Management Plan shall be submitted to the TRUSTEES for approval through SUBLESSOR and the Division of State Lands. The subleased premises shall not be developed or physically altered in any way other than what is necessary for security and maintenance of the subleased premises without the prior written approval of the TRUSTEES and SUBLESSOR until the Management Plan is approved. SUBLESSEE shall provide SUBLESSOR with an opportunity to participate in all phases of preparing and developing the Management Plan for the subleased premises. The Management Plan shall be submitted to SUBLESSOR in draft form for review and comments within nine months of the effective date of TRUSTEES' Lease Number 4546. The Management Plan shall incorporate construction, maintenance and protective procedures to minimize exposure to arsenic that is present in the soil along portions of the subleased premises. These procedures shall be approved by SUBLESSOR and the State of Florida Department of Environmental Protection, Division of Waste Management. SUBLESSEE shall give SUBLESSOR reasonable notice of the application for and receipt of any state, federal, or local permits as well as any public hearings or meetings relating to the development or use of the subleased premises. SUBLESSEE shall not proceed with development of said subleased premises including, but not limited to, funding, permit application, design or building contracts, until the Management Plan required herein has been submitted and approved. Any financial commitments made by SUBLESSEE that are not in compliance with the terms of this sublease shall be done at SUBLESSEE'S own risk. The Management Plan shall emphasize the original management concept as approved by the TRUSTEES at the time of acquisition, which established the primary purpose for which the subleased premises were acquired. The approved Management Plan shall provide the basic guidance for all management activities and shall be reviewed jointly by SUBLESSEE, SUBLESSOR and the TRUSTEES at least every five years. SUBLESSEE shall not use or alter the subleased premises except as provided for in the approved Management Plan without the advance written approval of the TRUSTEES and SUBLESSOR. The Management Plan prepared under this sublease shall identify management strategies for exotic species, if present. The introduction of exotic species is prohibited, except when specifically authorized by the approved Management Plan.

8. ASSIGNMENT: This sublease shall not be assigned in whole or in part without the prior written consent of the TRUSTEES and SUBLESSOR. Any assignment made either in whole or in part without the prior written consent of the TRUSTEES and SUBLESSOR shall be void and without legal effect.

9. RIGHT OF INSPECTION: The TRUSTEES and SUBLESSOR or their duly authorized agents, representatives or employees shall have the right at any and all

times to inspect the subleased premises and the works and operations thereon of SUBLESSEE in any matter pertaining to this sublease.

10. PLACEMENT AND REMOVAL OF EQUIPMENT: All buildings, structures, improvements and signs shall be constructed at the expense of SUBLESSEE in accordance with plans prepared by professional designers and shall require the prior written approval of SUBLESSOR as to purpose, location and design. Further, no trees, other than non-native species, shall be removed or major land alterations done without the prior written approval of SUBLESSOR. Removable equipment placed on the subleased premises by SUBLESSEE that does not become a permanent part of the subleased premises will remain the property of SUBLESSEE and may be removed by SUBLESSEE upon termination of this sublease.

11. INSURANCE REQUIREMENTS: During the term of this sublease, SUBLESSEE shall procure and maintain policies of fire, extended risk, and liability insurance coverage. The extended risk and fire insurance coverage shall be in an amount equal to the full insurable replacement value of any improvements or fixtures located on the subleased premises. The liability insurance coverage shall be in amounts not less than \$100,000 per person and \$200,000 per incident or occurrence for personal injury, death, and property damage on the subleased premises. Such policies of insurance shall name SUBLESSEE, the TRUSTEES, SUBLESSOR and the State of Florida as coinsureds. SUBLESSEE shall submit written evidence of having procured all insurance policies required herein prior to the effective date of this sublease and shall submit annually thereafter, written evidence of maintaining such insurance policies to SUBLESSOR and the Bureau of Public Land Administration, Division of State Lands, State of Florida Department of Environmental Protection, Mail Station 130, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000. SUBLESSEE shall purchase all policies of insurance from a financially responsible insurer duly authorized to do business in the State of Florida. In lieu of purchasing insurance, LESSEE may elect to self-insure these coverages. The insurer must possess a minimum current rating of B+ Class VIII in "Best's Key rating Guide." Any certificate of self-insurance shall be issued or approved by the Insurance Commissioner, State of Florida. The certificate of self-insurance shall provide for casualty and liability coverage. SUBLESSEE further agrees to immediately notify SUBLESSOR, the TRUSTEES and the insurer of any erection or removal of any structure or other fixed improvement on the subleased premises and any changes affecting the value of any improvements and to request said insurer to make adequate changes in the coverage to reflect the changes in value. SUBLESSEE shall be financially responsible for any loss due to failure to obtain adequate insurance coverage, and the failure to maintain such policies or certificate in the amounts set forth shall constitute a breach of this sublease.

12. LIABILITY: Each party is responsible for all personal injury and property damage attributable to the negligent acts or omissions of that party and the

officers, employees and agents thereof. Nothing herein shall be construed as an indemnity or a waiver of sovereign immunity enjoyed by any party hereto, as provided in Section 768.28, Florida Statutes, as amended from time to time, or any other law providing limitations on claims.

13. PAYMENT OF TAXES AND ASSESSMENTS: SUBLESSEE shall assume full responsibility for and shall pay all liabilities that accrue to the subleased premises or to the improvements thereon, including any and all drainage and special assessments or taxes of every kind and all mechanic's or materialman's liens which may be hereafter lawfully assessed and levied against the subleased premises.

14. NO WAIVER OF BREACH: The failure of SUBLESSOR to insist in any one or more instances upon strict performance of any one or more of the covenants, terms and conditions of this sublease shall not be construed as a waiver of such covenants, terms and conditions, but the same shall continue in full force and effect, and no waiver of SUBLESSOR of any of the provisions hereof shall in any event be deemed to have been made unless the waiver is set forth in writing, signed by SUBLESSOR.

15. TIME: Time is expressly declared to be of the essence of this sublease.

16. NON-DISCRIMINATION: As a condition of obtaining this sublease, SUBLESSEE hereby agrees not to discriminate against any individual because of that individual's race, color, religion, sex, national origin, age, handicap, or marital status with respect to any activity occurring within the subleased premises or upon lands adjacent to and used as an adjunct of the subleased premises.

17. UTILITY FEES: SUBLESSEE shall be responsible for the payment of all charges for the furnishing of gas, electricity, water and other public utilities to the subleased premises and for having all utilities turned off when the subleased premises are surrendered.

18. MINERAL RIGHTS: This sublease does not cover petroleum or petroleum products or minerals and does not give the right to SUBLESSEE to drill for or develop the same. However, SUBLESSEE shall be fully compensated for any and all damages that might result to the subleasehold interest of SUBLESSEE by reason of such exploration and recovery operations.

19. RIGHT OF AUDIT: SUBLESSEE shall make available to the TRUSTEES and SUBLESSOR all financial and other records relating to this sublease, and SUBLESSOR and or the TRUSTEES shall have the right to audit such records at any reasonable time. This right shall be continuous until this sublease expires or is terminated. This sublease may be terminated by SUBLESSOR should SUBLESSEE fail to allow public access to all documents, papers, letters or other materials made or received in conjunction with this sublease, pursuant to the provisions of Chapter 119, Florida Statutes.

20. CONDITION OF PROPERTY: SUBLESSOR assumes no liability or obligation to SUBLESSEE with reference to the condition of the subleased premises or the suitability of the subleased premises for any improvements. The subleased premises herein are subleased by SUBLESSOR to SUBLESSEE in an "as is" condition, with SUBLESSOR assuming no responsibility for bidding, contracting, permitting, construction, and the care, repair, maintenance or improvement of the subleased premises for the benefit of SUBLESSEE.

21. NOTICES: All notices given under this sublease shall be in writing and shall be served by certified mail including, but not limited to, notice of any violation served pursuant to Section 253.04, Florida Statutes, to the last address of the party to whom notice is to be given, as designated by such party in writing. SUBLESSOR and SUBLESSEE hereby designate their address as follows:

SUBLESSOR: Office of Greenways and Trails  
State of Florida Department of Environmental Protection  
3900 Commonwealth Blvd., M.S. 795  
Tallahassee, Florida 32399-3000

SUBLESSEE: City Manager  
City of Lake Wales, Florida  
201 Central Avenue West  
Lake Wales, Florida 33853

22. BREACH OF COVENANTS, TERMS, OR CONDITIONS: Should SUBLESSEE breach any of the covenants, terms, or conditions of this sublease, SUBLESSOR shall give written notice to SUBLESSEE to remedy such breach within sixty days of such notice. In the event SUBLESSEE fails to remedy the breach to the satisfaction of SUBLESSOR within sixty days of receipt of written notice, SUBLESSOR may either terminate this sublease and recover from SUBLESSEE all damages SUBLESSOR may incur by reason of the breach including, but not limited to, the cost of recovering the subleased premises and attorneys' fees or maintain this sublease in full force and effect and exercise all rights and remedies herein conferred upon SUBLESSOR.

23. DAMAGE TO THE PREMISES: (a) SUBLESSEE shall not do, or suffer to be done, in, on or upon the subleased premises or as affecting said subleased premises or adjacent properties, any act which may result in damage or depreciation of value to the subleased premises or adjacent properties, or any part thereof. (b) SUBLESSEE shall not generate, store, produce, place, treat, release, or discharge any contaminants, pollutants or pollution, including, but not limited to, hazardous or toxic substances, chemicals or other agents on, into, or from the subleased premises or any adjacent lands or waters in any manner not permitted by law. For the purposes of this sublease, "hazardous substances" shall mean and include those elements or compounds defined in 42 USC Section 9601 or which are contained in the list of hazardous substances adopted by the United States Environmental Protection Agency (EPA) and the list of toxic pollutants designated by the United States Congress or the EPA or defined by any other federal, state or local statute, law, ordinance, code, rule,

regulation, order, or decree regulating, relating to, or imposing liability or standards of conduct concerning any hazardous, toxic or dangerous waste, substance, material, pollutant or contaminant. "Pollutants" and "pollution" shall mean those products or substances defined in Chapters 376 and 403, Florida Statutes, and the rules promulgated thereunder, all as amended or updated from time to time. In the event of SUBLESSEE'S failure to comply with this paragraph, SUBLESSEE shall, at its sole cost and expense, promptly commence and diligently pursue any legally required closure, investigation, assessment, cleanup, decontamination, remediation, restoration and monitoring of (1) the subleased premises, and (2) all off-site ground and surface waters and lands affected by SUBLESSEE'S such failure to comply, as may be necessary to bring the subleased premises and affected off-site waters and lands into full compliance with all applicable federal, state or local statutes, laws, ordinances, codes, rules, regulations, orders and decrees, and to restore the damaged property to the condition existing immediately prior to the occurrence which caused the damage. SUBLESSEE'S obligations set forth in this paragraph shall survive the termination or expiration of this sublease. This paragraph shall not be construed as a limitation upon SUBLESSEE'S obligations regarding indemnification and payment of costs and fees as set forth in paragraph 12 of this sublease, nor upon any other obligations or responsibilities of SUBLESSEE as set forth herein. Nothing herein shall relieve SUBLESSEE of any responsibility or liability prescribed by law for fines, penalties, and damages levied by governmental agencies, and the cost of cleaning up any contamination caused directly or indirectly by SUBLESSEE'S activities or facilities. Upon discovery of a release of a hazardous substance or pollutant, or any other violation of local, state or federal law, ordinance, code, rule, regulation, order or decree relating to the generation, storage, production, placement, treatment, release or discharge of any contaminant, SUBLESSEE shall report such violation to all applicable governmental agencies having jurisdiction, and to SUBLISSOR, all within the reporting periods of the applicable agencies.

24. ENVIRONMENTAL AUDIT: At SUBLISSOR'S discretion, SUBLESSEE shall provide SUBLISSOR with a current Phase I environmental site assessment conducted in accordance with the State of Florida Department of Environmental Protection, Division of State Lands' standards prior to termination of this sublease, and if necessary a Phase II environmental site assessment.

25. SURRENDER OF PREMISES: Upon termination or expiration of this sublease, SUBLESSEE shall surrender the subleased premises to SUBLISSOR. In the event no further use of the subleased premises or any part thereof is needed, SUBLESSEE shall give written notification to SUBLISSOR and the Bureau of Public Land Administration, Division of State Lands, State of Florida Department of Environmental Protection, Mail Station 130, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, at least six months prior to the release of any or all of the subleased premises. Notification shall include a legal description, this sublease number and an explanation of the release.

The release shall only be valid if approved by SUBLESSOR and the TRUSTEES through execution of a release of sublease instrument with the same formality as this sublease. Upon release of all or any part of the subleased premises or upon termination or expiration of this sublease, all improvements, including both physical structures and modifications of the subleased premises, shall become the property of the TRUSTEES and SUBLESSOR, unless SUBLESSOR gives written notice to SUBLESSEE to remove any or all such improvements at the expense of SUBLESSEE. The decision to retain any improvements upon termination of this sublease shall be at SUBLESSOR'S sole discretion. Prior to surrender of all or any part of the subleased premises a representative of SUBLESSOR shall perform an on-site inspection and the keys to any building on the subleased premises shall be turned over to SUBLESSOR. If the subleased premises do not meet all conditions as set forth in paragraphs 17 and 34 herein, SUBLESSEE shall, at its expense, pay all costs necessary to meet the prescribed conditions.

26. BEST MANAGEMENT PRACTICES: SUBLESSEE shall implement applicable Best Management Practices for all activities conducted under this sublease in compliance with paragraph 18-2.018(2)(h), Florida Administrative Code, which have been selected, developed, or approved by SUBLESSOR, SUBLESSEE or other land managing agencies for the protection and enhancement of the subleased premises.

27. SOVEREIGNTY SUBMERGED LANDS: This sublease does not authorize any use of lands located waterward of the mean or ordinary high water line of any lake, river, stream, creek, bay, estuary, or other water body or the waters or the air space thereabove.

28. PROHIBITIONS AGAINST LIENS OR OTHER ENCUMBRANCES: Fee title to the subleased premises is held by the TRUSTEES. SUBLESSEE shall not do or permit anything to be done which purports to create a lien or encumbrance of any nature against the real property contained in the subleased premises including, but not limited to, mortgages or construction liens against the subleased premises or against any interest of the TRUSTEES and SUBLESSOR therein.

29. CONDITIONS AND COVENANTS: All of the provisions of this sublease shall be deemed covenants running with the land included in the subleased premises, and construed to be "conditions" as well as "covenants" as though the words specifically expressing or imparting covenants and conditions were used in each separate provision.

30. PARTIAL INVALIDITY: If any term, covenant, condition or provision of this sublease shall be ruled by a court of competent jurisdiction to be invalid, void, or unenforceable, the remainder shall remain in full force and effect and shall in no way be affected, impaired or invalidated.

31. ENTIRE UNDERSTANDING: This sublease sets forth the entire understanding between the parties and shall only be amended with the prior written approval of the TRUSTEES and SUBLESSOR.

32. EASEMENTS: All easements including, but not limited to, utility easements

are expressly prohibited without the prior written approval of the TRUSTEES and SUBLESSOR. Any easement not approved in writing by the TRUSTEES and SUBLESSOR shall be void and without legal effect.

33. SUBSUBLEASES: This sublease is for the purposes specified herein and any subsubleases of any nature are prohibited, without the prior written approval of the TRUSTEES and SUBLESSOR. Any subsublease not approved in writing by the TRUSTEES and SUBLESSOR shall be void and without legal effect.

34. MAINTENANCE OF IMPROVEMENTS: SUBLESSEE shall maintain the real property contained within the subleased premises and any improvements located thereon, in a state of good condition, working order and repair including, but not limited to, maintaining the planned improvements as set forth in the approved Management Plan, keeping the subleased premises free of trash or litter, meeting all building and safety codes in the location situated and maintaining any and all existing roads, canals, ditches, culverts, risers and the like in as good condition as the same may be on the effective date of this sublease.

35. COMPLIANCE WITH LAWS: SUBLESSEE agrees that this sublease is contingent upon and subject to SUBLESSEE obtaining all applicable permits and complying with all applicable permits, regulations, ordinances, rules, and laws of the State of Florida or the United States or of any political subdivision or agency of either.

36. ARCHAEOLOGICAL AND HISTORIC SITES: Execution of this sublease in no way affects any of the parties' obligations pursuant to Chapter 267, Florida Statutes. The collection of artifacts or the disturbance of archaeological and historic sites on state-owned lands is prohibited unless prior authorization has been obtained from the Department of State, Division of Historical Resources. The Management Plan prepared pursuant to Chapter 18-2 Florida Administrative Code, shall be reviewed by the Division of Historical Resources to insure that adequate measures have been planned to locate, identify, protect, and preserve the archaeological and historic sites and properties on the subleased premises.

37. GOVERNING LAW: This sublease shall be governed by and interpreted according to the laws of the State of Florida.

38. SECTION CAPTIONS: Articles, subsections and other captions contained in this sublease are for reference purposes only and are in no way intended to describe, interpret, define or limit the scope, extent or intent of this sublease or any provisions thereof.

39. ADMINISTRATIVE FEE: SUBLESSEE shall pay TRUSTEES an annual administrative fee of \$300. The initial annual administrative fee shall be payable within thirty days from the date of execution of this sublease agreement and shall be prorated based on the number of months or fraction thereof remaining in the fiscal year of execution. For purposes of this sublease agreement, the fiscal year shall be the period extending from July 1 to June 30. Each annual payment thereafter shall be due and payable on July 1 of each

subsequent year.

40. SPECIAL CONDITIONS: The following special conditions shall apply to this sublease:

A. SUBLESSEE shall immediately post signs marked "No Trespassing" and erect barriers to discourage public use until such time as the contaminated areas of the subleased premises are covered with clean fill and paved in accordance with the approved Management Plan required in paragraph 7 of this sublease.

B. Until the Management plan required in paragraph 7 of this sublease is approved, SUBLESSEE shall ensure that activities within the subleased premises minimize the creation of dust and prevent dermal contact with the affected soil. No affected soil shall be excavated without prior written approval of the SUBLESSOR and the State of Florida Department of Environmental Protection ("DEP"), Division of Waste Management.

C. Upon SUBLESSEE completing the construction, maintenance and protective procedures to minimize exposure to arsenic included in the management plan and approved by DEP's Division of Waste Management, SUBLESSEE shall have performed all remedial requirements of the SUBLESSOR for any contamination of the subleased premises.

IN WITNESS WHEREOF, the parties have caused this sublease to be executed on the day and year first above written.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF GREENWAYS AND TRAILS

Westley Bryant  
Witness

By: [Signature]  
James M. Wood  
Print/Type Name

Destiny L. Bryant  
Print/Type Witness Name

Title: Assistant Director

Salmon  
Witness

Tammy Salmon  
Print/Type Witness Name

"SUBLESSOR"

STATE OF FLORIDA  
COUNTY OF LEON

The foregoing instrument was acknowledged before me this 24th day of January, 2008, by James M. Wood, as Assistant Director of the Office of Greenways and Trails, Florida Department of Environmental Protection, who is personally known to me.

Westley Bryant  
Notary Public, State of Florida

Print/Type Notary Name

Commission Number:  
Commission Expires:



*[Handwritten mark]*

CITY OF LAKE WALES, FLORIDA  
By its City Council

Judith H. Delmar  
Witness

JUDITH H. DELMAR  
Print/Type Witness Name

Dorothy J. Pelletier  
Witness

Dorothy J. Pelletier  
Print/Type Witness Name

By: [Signature]

LEE A. WHEELER III  
Print/Type Name

Title: Mayor

(OFFICIAL SEAL)

Attest: [Signature]

Clara VanBlangen  
Type Name

Title: City Clerk

"SUBLESSEE"

STATE OF FLORIDA  
COUNTY OF POLK

The foregoing instrument was acknowledged before me this 11<sup>th</sup> day of December, 2007, by Judith H. Delmar and Dorothy J. Pelletier as witnesses and Lee A. Wheeler III, respectively, on behalf of the City Council of the City of Lake Wales, Florida. They are personally known to me or produced \_\_\_\_\_ as identification.

[Signature]  
Notary Public, State of Florida

Jacqueline Hawkins  
Print/Type Notary Name

Commission Number:

Commission Expires:



Consented to by the TRUSTEES on 11<sup>th</sup> day of June, 2008.

[Signature]  
Gloria C. Barber, Operations and Management Consultant Manager, Bureau of Public Land Administration, Division of State Lands, Department of Environmental Protection

Approved as to Form and Legality

By: [Signature]  
REP Attorney

11/11

**EXHIBIT "A"**  
**LEGAL DESCRIPTION OF THE SUBLEASED PREMISES**

PHY-18-2006 13:01 HENKICHN GUMI SUCS 0139313352 P.02  
 this instrument prepared by and  
 lease Return To:  
 Haic Vergara  
 American Government Services Corporation  
 812 W. Linbaugh Avenue  
 Tampa, FL 33618  
 AHT # 12925

**QUIT CLAIM DEED**

THIS INDENTURE, made this 24th day of March, A.D. 2006, between CSX Transportation, Inc., a Virginia Corporation formerly Seaboard Air Line Railway Company, whose address is 500 Water Street, Jacksonville, FL 32202, grantor, and the Board of Trustees of the Internal Improvement Trust Fund of the State of Florida, whose post office address is 3900 Commonwealth Blvd., Mail Station 115, Tallahassee, Florida, 32399-3000, grantee,

(Wherever used herein the terms "grantor" and "grantee" include all the parties to this instrument and their heirs, legal representatives, successors and assigns. "Grantor" and "grantee" are used for singular and plural, as the context requires and the use of any gender shall include all genders.)

WITNESSETH: That the said grantor, for and in consideration of the sum of Ten Dollars, to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has released, remised and quitclaimed, and by these presents does hereby remise, release, and quitclaim unto the said grantee, and grantee's successors and assigns forever, all the right, title and interest of grantor in and to the following described land situate, lying and being in Folk County, Florida, to-wit:

See Exhibit "A" Attached

This property is not the homestead property of the grantor, nor contiguous to homestead property, as such homestead is defined under Florida law.

TO HAVE AND TO HOLD the same together with all and singular the appurtenances thereto belonging or in anywise appertaining, and all the estate, right, title, law or equity, to the only proper use, benefit and behoof of the said grantee, its successors and assigns forever.

IN WITNESS WHEREOF the grantor has hereunto set grantor's hand and seal, the day and year first above written.

Signed, sealed and delivered in the presence of:

Karen E. Clarke  
 (Signature of first Witness)

Karen E. Clarke  
 (Printed, typed or stamped name of first Witness.)

Carmen Elena Benitez  
 (Signature of second Witness)

Carmen Elena Benitez  
 (Printed, typed or stamped name of second witness)

CSX Transportation, Inc. a Virginia Corporation formerly  
 Seaboard Air Line Railway Company  
 BY: Stephen A. Crosby  
 Stephen A. Crosby, as President of CSX Real Property, Inc.  
 And as duly authorized agent of CSX Transportation, Inc.

(Corporate Seal)



STATE OF FLORIDA  
 COUNTY OF DUVAL

The foregoing instrument was acknowledged before me this 24th day of March, 2006, by Stephen A. Crosby, as President of CSX Real Property, Inc., and as duly authorized agent for CSX Transportation, Inc., a Virginia Corporation formerly Seaboard Air Line Railway Company on behalf of said corporation. Such person(s) (Notary Public must check applicable box):

are personally known to me.  
 produced a current driver license.  
 produced \_\_\_\_\_ as identification.

Carmen Elena Benitez  
 Notary Public  
 Carmen Elena Benitez  
 (Printed, Typed or Stamped Name of Notary Public)

 Notary Public State of Florida  
 My Commission Expires 10-16-2009  
 My Commission No.: DD482409  
 (NOTARY PUBLIC SEAL)

**APPROVED  
 FOR CLOSING**

MAY 23 2006

William C. Robinson, Jr.  
 (DEP Attorney)

EXHIBIT "A"

Beginning at the intersection of the South right of way line of the Seaboard Air Line Railroad with the East line of Second Street in the City of Lake Wales, Polk County, Florida, said intersection being located 30 feet southerly from and at right angles to the center line of the said Seaboard Air Line Railroad, thence easterly along the said south right of way line of the Seaboard Air Line Railroad 30 feet southerly from and parallel with the center line of said Seaboard Air Line Railroad's Main Line Track, a distance of 250 feet, thence at right angles in a southerly direction a distance of 98 feet to a point, said point being 128 feet southerly from and at right angles to the center line of said Seaboard Air Line Railroad's Main Tract, thence at right angles in a westerly direction a distance of 250 feet to a point on the east line of said Second Street, thence at right angles in a northerly direction along the east line of Second Street, a distance of 98 feet to a place of beginning.

And

A strip of land, 60 feet in width, that is 30 feet on each side of the center line of the Seaboard Air Line Railway as surveyed and located across the land owned by said grantor in the Northeast quarter of Section 2, Township 30 South, Range 27 East, Polk County, Florida, lying westerly of the westerly right of way line of Fifth Street and easterly of the easterly right of way line of Second Street (Scenic Highway).

Project Name: Lake Wales Trailways  
Owner/Parcel #: CSX Corporation  
Sheet 1 of 1

BSM APPROVED  
By JA Date 9/5/05

BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT  
TRUST FUND OF THE STATE OF FLORIDA

Lake Wales Trailways (3.02 acres)

LEASE AGREEMENT

Lease Number 4546

This lease is made and entered into this 8<sup>th</sup> day of December, 2006, between the BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND OF THE STATE OF FLORIDA, hereinafter referred to as "LESSOR", and the STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF GREENWAYS AND TRAILS, hereinafter referred to as "LESSEE".

WITNESSETH:

WHEREAS, the BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND OF THE STATE OF FLORIDA holds title to certain lands and property being utilized by the State of Florida for public purposes, and

WHEREAS, the BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND OF THE STATE OF FLORIDA is authorized in Section 253.03, Florida Statutes, to enter into leases for the use, benefit and possession of public lands by State agencies that may properly use and possess them for the benefit of the people of the State of Florida;

NOW, THEREFORE, for and in consideration of the mutual covenants and agreements hereinafter contained, LESSOR leases the below described premises to LESSEE subject to the following terms and conditions:

1. DELEGATIONS OF AUTHORITY: LESSOR'S responsibilities and obligations herein shall be exercised by the Division of State Lands, Department of Environmental Protection.
2. DESCRIPTION OF PREMISES: The property subject to this lease is situated in the County of Polk State of Florida and is more particularly described in Exhibit "A" attached hereto and hereinafter called the "leased premises".
3. TERM: The term of this lease shall be for a period of fifty years, commencing on December 8, 2006 and ending on December 7, 2056, unless sooner terminated pursuant to the provisions of this lease.
4. PURPOSE: LESSEE shall manage the leased premises only for the conservation and protection of natural and historical resources and resource based public outdoor recreation which is compatible with the conservation

and protection of these public lands, as set forth in subsection 259.032(11), Florida Statutes, along with other related uses necessary for the accomplishment of this purpose as designated in the Management Plan required by paragraph 7 of this lease.

5. QUIET ENJOYMENT AND RIGHT OF USE: LESSEE shall have the right of ingress and egress to, from and upon the leased premises for all purposes necessary to the full quiet enjoyment by said LESSEE of the rights conveyed herein.

6. UNAUTHORIZED USE: LESSEE shall, through its agents and employees, prevent the unauthorized use of the leased premises or any use thereof not in conformance with this lease.

7. MANAGEMENT PLAN: LESSEE shall prepare and submit a Management Plan for the leased premises, in accordance with Section 253.034, Florida Statutes, and subsection 18-2.021(4), Florida Administrative Code. The Management Plan shall be submitted for approval to the State of Florida Department of Environmental Protection, Division of State Lands, Office of Environmental Services, Mail Station 140, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000. The leased premises shall not be developed or physically altered in any way other than what is necessary for security and maintenance of the leased premises without the prior written approval of LESSOR until the Management Plan is approved. The Management Plan shall emphasize the original management concept as approved by LESSOR at the time of acquisition, which established the primary public purpose for which the leased premises were acquired. The approved Management Plan shall provide the basic guidance for all management activities and shall be reviewed jointly by LESSEE and LESSOR. LESSEE shall not use or alter the leased premises except as provided for in the approved Management Plan without the prior written approval of LESSOR. The Management Plan prepared under this lease shall identify management strategies for exotic species, if present. The introduction of exotic species is prohibited, except when specifically authorized by the approved Management Plan.

8. RIGHT OF INSPECTION: LESSOR or its duly authorized agents shall have the right at any and all times to inspect the leased premises and the works and operations thereon of LESSEE, in any matter pertaining to this lease.

Page 2 of 14  
Lease No. 4546

R03/26/04

9. INSURANCE REQUIREMENTS: LESSEE shall procure and maintain fire and extended risk insurance coverage, in accordance with Chapter 284, F.S., for any buildings and improvements located on the leased premises by preparing and delivering to the Division of Risk Management, Department of Insurance, a completed Florida Fire Insurance Trust Fund Coverage Request Form and a copy of this lease immediately upon erection of any structures as allowed by paragraph 4 of this lease. A copy of said form and immediate notification in writing of any erection or removal of structures or other improvements on the leased premises and any changes affecting the value of the improvements shall be submitted to the following: Bureau of Public Land Administration, Division of State Lands, State of Florida Department of Environmental Protection, Mail Station 130, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000.

10. LIABILITY: LESSEE shall assist in the investigation of injury or damage claims either for or against LESSOR or the State of Florida pertaining to LESSEE'S respective areas of responsibility under this lease or arising out of LESSEE'S respective management programs or activities and shall contact LESSOR regarding the legal action deemed appropriate to remedy such damage or claims.

11. ARCHAEOLOGICAL AND HISTORIC SITES: Execution of this lease in no way affects any of the parties' obligations pursuant to Chapter 267, Florida Statutes. The collection of artifacts or the disturbance of archaeological and historic sites on state-owned lands is prohibited unless prior authorization has been obtained from the Department of State, Division of Historical Resources. The Management Plan prepared pursuant to Section 253.034, Florida Statutes, shall be reviewed by the Division of Historical Resources to insure that adequate measures have been planned to locate, identify, protect and preserve the archaeological and historic sites and properties on the leased premises.

12. EASEMENTS: All easements including, but not limited to, utility easements are expressly prohibited without the prior written approval of LESSOR. Any easement not approved in writing by LESSOR shall be void and without legal effect.

13. SUBLEASES: This lease is for the purposes specified herein and subleases of any nature are prohibited, without the prior written approval of LESSOR. Any sublease not approved in writing by LESSOR shall be void and without legal effect.

14. POST CLOSING RESPONSIBILITIES: In an effort to define responsibilities of the LESSOR and LESSEE with regard to resolving post closing management issues, the parties agree to the following:

- a. After consultation with the LESSEE, LESSOR agrees to provide the LESSEE with the title, survey and environmental products procured by the LESSOR, prior to closing.
- b. LESSOR will initiate surveying services to locate and mark boundary lines of specific parcels when necessary for immediate
- c. agency management and will provide a boundary survey of the entire acquisition project at the conclusion of all acquisition within the project boundary. Provided, however, the LESSEE may request individual parcel boundary surveys, if necessary, prior to the conclusion of acquisition activities within the project boundaries.
- d. Unless otherwise agreed to by LESSEE, LESSOR shall at its sole cost and expense, make a diligent effort to resolve all issues pertaining to all title defects, survey matters or environmental contamination associated with the leased premises, including but not limited to trash and debris, which were either known or should have been reasonably known by LESSOR at the time LESSOR acquired the leased premises. Notwithstanding the foregoing, LESSOR will not be responsible for any of LESSEE'S attorney's fees, costs, or liability or damages incurred by the LESSEE in resolving any issue in which the LESSEE is named as a party in any litigation or other legal or administrative proceeding.
- e. With regard to all title defects, survey matters, or environmental contamination associated with the leased premises which were not known or could not have been reasonably known by LESSOR at the time LESSOR acquired the leased premises, LESSOR

and LESSEE agree to cooperate in developing an appropriate strategy for jointly resolving these matters. LESSOR acknowledges and understands that LESSEE is unable to commit any substantial amount of their routine operating funds for the resolution of any title defect, survey matter, or environmental contamination associated with the lease premises.

Notwithstanding the foregoing, LESSOR will not be responsible for any of LESSEE'S attorney's fees, costs, or liability or damages incurred by the LESSEE in resolving any issue in which the LESSEE is named as a party in any litigation or other legal or administrative proceeding.

15. SURRENDER OF PREMISES: Upon termination or expiration of this lease LESSEE shall surrender the leased premises to LESSOR. In the event no further use of the leased premises or any part thereof is needed, written notification shall be made to the Bureau of Public Land Administration, Division of State Lands, State of Florida Department of Environmental Protection, Mail Station 130, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, at least six months prior to the release of all or any part of the leased premises. Notification shall include a legal description, this lease number and an explanation of the release. The release shall only be valid if approved by LESSOR through execution of a release of lease instrument with the same formality as this lease. Upon release of all or any part of the leased premises or upon expiration or termination of this lease, all permanent improvements, including both physical structures and modifications to the leased premises, shall become the property of LESSOR, unless LESSOR gives written notice to LESSEE to remove any or all such improvements at the expense of LESSEE. The decision to retain any improvements upon termination of this lease shall be at LESSOR'S sole discretion. Prior to surrender of all or any part of the leased premises, a representative of the Division of State Lands shall perform an on-site inspection and the keys to any buildings on the leased premises shall be turned over to the Division. If the leased premises and improvements located thereon do not meet all conditions set forth in

paragraphs 18 and 21 herein, LESSEE shall pay all costs necessary to meet the prescribed conditions.

16. BEST MANAGEMENT PRACTICES: LESSEE shall implement applicable Best Management Practices for all activities conducted under this lease in compliance with paragraph 18-2.018(2) (h), Florida Administrative Code, which have been selected, developed, or approved by LESSOR, LESSEE or other land managing agencies for the protection and enhancement of the leased premises.

17. PUBLIC LANDS ARTHROPOD CONTROL PLAN: LESSEE shall identify and subsequently designate to the respective arthropod control district or districts within one year of the effective date of this lease all of the environmentally sensitive and biologically highly productive lands contained within the leased premises, in accordance with Section 388.4111, Florida Statutes and Chapter 5E-13, Florida Administrative Code, for the purpose of obtaining a public lands arthropod control plan for such lands.

18. UTILITY FEES: LESSEE shall be responsible for the payment of all charges for the furnishing of gas, electricity, water and other public utilities to the leased premises and for having all utilities turned off when the leased premises are surrendered.

19. ASSIGNMENT: This lease shall not be assigned in whole or in part without the prior written consent of LESSOR. Any assignment made either in whole or in part without the prior written consent of LESSOR shall be void and without legal effect.

20. PLACEMENT AND REMOVAL OF IMPROVEMENTS: All buildings, structures, improvements, and signs shall be constructed at the expense of LESSEE in accordance with plans prepared by professional designers and shall require the prior written approval of LESSOR as to purpose location, and design. Further, no trees, other than non-native species, shall be removed or major land alterations done without the prior written approval of LESSOR. Removable equipment placed on the leased premises by LESSEE which do not become a permanent part of the leased premises will remain the property of LESSEE and may be removed by LESSEE upon termination of this lease.

21. MAINTENANCE OF IMPROVEMENTS: LESSEE shall maintain the real property contained within the leased premises and any improvements located thereon, in a state of good condition, working order and repair including, but not

limited to, keeping the leased premises free of trash or litter, maintaining all planned improvements as set forth in the approved Management Plan, meeting all building and safety codes in the location situated and maintaining any and all existing roads, canals, ditches, culverts, risers and the like in as good condition as the same may be at the date of this lease; provided, however, that any removal, closure, etc., of the above improvements shall be acceptable when the proposed activity is consistent with the goals of conservation, protection, and enhancement of the natural and historical resources within the leased premises and with the approved Management Plan.

22. ENTIRE UNDERSTANDING: This lease sets forth the entire understanding between the parties and shall only be amended with the prior written approval of LESSOR.

23. BREACH OF COVENANTS, TERMS, OR CONDITIONS: Should LESSEE breach any of the covenants, terms, or conditions of this lease, LESSOR shall give written notice to LESSEE to remedy such breach within sixty days of such notice. In the event LESSEE fails to remedy the breach to the satisfaction of LESSOR within sixty days of receipt of written notice, LESSOR may either terminate this lease and recover from LESSEE all damages LESSOR may incur by reason of the breach including, but not limited to, the cost of recovering the leased premises or maintain this lease in full force and effect and exercise all rights and remedies herein conferred upon LESSOR.

24. NO WAIVER OF BREACH: The failure of LESSOR to insist in any one or more instances upon strict performance of any one or more of the covenants, terms and conditions of this lease shall not be construed as a waiver of such covenants, terms and conditions, but the same shall continue in full force and effect, and no waiver of LESSOR of any one of the provisions hereof shall in any event be deemed to have been made unless the waiver is set forth in writing, signed by LESSOR.

25. PROHIBITIONS AGAINST LIENS OR OTHER ENCUMBRANCES: Fee title to the leased premises is held by LESSOR. LESSEE shall not do or permit anything which purports to create a lien or encumbrance of any nature against the real property contained in the leased premises including, but not limited

to, mortgages or construction liens against the leased premises or against any interest of LESSOR therein.

26. CONDITIONS AND COVENANTS: All of the provisions of this lease shall be deemed covenants running with the land included in the leased premises, and construed to be "conditions" as well as "covenants" as though the words specifically expressing or imparting covenants and conditions were used in each separate provision.

27. DAMAGE TO THE PREMISES: (a) LESSEE shall not do, or suffer to be done, in, on or upon the leased premises or as affecting said leased premises or adjacent properties, any act which may result in damage or depreciation of value to the leased premises or adjacent properties, or any part thereof. (b) LESSEE shall not generate, store, produce, place, treat, release or discharge any contaminants, pollutants or pollution, including, but not limited to, hazardous or toxic substances, chemicals or other agents on, into, or from the leased premises or any adjacent lands or waters in any manner not permitted by law. For the purposes of this lease, "hazardous substances" shall mean and include those elements or compounds defined in 42 USC Section 9601 or which are contained in the list of hazardous substances adopted by the United States Environmental Protection Agency (EPA) and the list of toxic pollutants designated by the United States Congress or the EPA or defined by any other federal, state or local statute, law, ordinance, code, rule, regulation, order or decree regulating, relating to, or imposing liability or standards of conduct concerning any hazardous, toxic or dangerous waste, substance, material, pollutant or contaminant. "Pollutants" and "pollution" shall mean those products or substances defined in Chapters 376 and 403, Florida Statutes, and the rules promulgated thereunder, all as amended or updated from time to time. In the event of LESSEE'S failure to comply with this paragraph, LESSEE shall, at its sole cost and expense, promptly commence and diligently pursue any legally required closure, investigation, assessment, cleanup, decontamination, remediation, restoration and monitoring of (1) the leased premises, and (2) all off-site ground and surface waters and lands affected by LESSEE'S such failure to comply, as may be necessary to bring the leased premises and affected off-site waters and lands into full compliance with all applicable federal,

state or local statutes, laws, ordinances, codes, rules, regulations, orders and decrees, and to restore the damaged property to the condition existing immediately prior to the occurrence which caused the damage. LESSEE'S obligations set forth in this paragraph shall survive the termination or expiration of this lease. Nothing herein shall relieve LESSEE of any responsibility or liability prescribed by law for fines, penalties and damages levied by governmental agencies, and the cost of cleaning up any contamination caused directly or indirectly by LESSEE'S activities or facilities. Upon discovery of a release of a hazardous substance or pollutant, or any other violation of local, state or federal law, ordinance, code, rule, regulation, order or decree relating to the generation, storage, production, placement, treatment, release or discharge of any contaminant, LESSEE shall report such violation to all applicable governmental agencies having jurisdiction, and to LESSOR, all within the reporting periods of the applicable governmental agencies.

28. PAYMENT OF TAXES AND ASSESSMENTS: LESSEE shall assume full responsibility for and shall pay all liabilities that accrue to the leased premises or to the improvements thereon, including any and all drainage and special assessments or taxes of every kind and all mechanic's or materialman's liens which may be hereafter lawfully assessed and levied against the leased premises.

29. RIGHT OF AUDIT: LESSEE shall make available to LESSOR all financial and other records relating to this lease and LESSOR shall have the right to audit such records at any reasonable time. This right shall be continuous until this lease expires or is terminated. This lease may be terminated by LESSOR should LESSEE fail to allow public access to all documents, papers, letters or other materials made or received in conjunction with this lease, pursuant to Chapter 119, Florida Statutes.

30. NON-DISCRIMINATION: LESSEE shall not discriminate against any individual because of that individual's race, color, religion, sex, national origin, age, handicap, or marital status with respect to any activity occurring within the leased premises or upon lands adjacent to and used as an adjunct of the leased premises.

31. COMPLIANCE WITH LAWS: LESSEE agrees that this lease is contingent upon and subject to LESSEE obtaining all applicable permits and complying with all applicable permits, regulations, ordinances, rules, and laws of the State of Florida or the United States or of any political subdivision or agency of either.

32. TIME: Time is expressly declared to be of the essence of this lease.

33. GOVERNING LAW: This lease shall be governed by and interpreted according to the laws of the State of Florida.

34. SECTION CAPTIONS: Articles, subsections and other captions contained in this lease are for reference purposes only and are in no way intended to describe, interpret, define or limit the scope, extent or intent of this lease or any provisions thereof.

35. ADMINISTRATIVE FEE: LESSEE shall pay LESSOR an annual administrative fee of \$300. The initial annual administrative fee shall be payable within thirty days from the date of execution of this lease agreement and shall be prorated based on the number of months or fraction thereof remaining in the fiscal year of execution. For purposes of this lease agreement, the fiscal year shall be the period extending from July 1 to June 30. Each annual payment thereafter shall be due and payable on July 1 of each subsequent year.

36. SPECIAL CONDITIONS: The following special conditions shall apply to this lease: None.

IN WITNESS WHEREOF, the parties have caused this lease to be executed on the day and year first above written.

BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND OF THE STATE OF FLORIDA

Judy Woodard  
Witness

Judy Woodard  
Print/Type Witness Name

Athena Baerga  
Witness

Athena Baerga  
Print/Type Witness Name

By: Gloria C. Barber (SEAL)  
GLORIA C. BARBER, OPERATIONS AND MANAGEMENT CONSULTANT MANAGER, BUREAU OF PUBLIC LAND ADMINISTRATION, DIVISION OF STATE LANDS, DEPARTMENT OF ENVIRONMENTAL PROTECTION

"LESSOR"

STATE OF FLORIDA  
COUNTY OF LEON

The foregoing instrument was acknowledged before me this 8th day of December 2006, by Gloria C. Barber, as Operations and Management Consultant Manager, Bureau of Public Land Administration, Division of State Lands, Florida Department of Environmental Protection, acting as agent on behalf of the Board of Trustees of the Internal Improvement Trust Fund of the State of Florida.

Sylvia S. Roberts  
Notary Public, State of Florida

Print/Type Notary Name

Commission Number:

Commission Expires:

Approved as to Form and Legality

By: ANN L. HARRIS  
DEP Attorney



STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF GREENWAYS AND TRAILS

Destiny L. Bryant  
Witness

Destiny L. Bryant  
Print/Type Witness Name

Carolyn Thompson  
Witness

CAROLYN THOMPSON  
Print/Type Witness Name

By: [Signature] (SEAL)

James M. Wood  
Print/Type Name

Title: Assistant Director

"LESSEE"

STATE OF FLORIDA  
COUNTY OF LEON

The foregoing instrument was acknowledged before me this 16<sup>th</sup> day of December 2006, by James M. Wood, as Assistant Director, State of Florida Department of Environmental Protection, Office of Greenways and Trails. He ~~is~~ is personally known to me or produced [Signature] as identification.

Destiny L. Bryant  
Notary Public, State of Florida

Destiny L. Bryant  
Print/Type Notary Name

Commission Number:

Commission Expires:



**Destiny L. Bryant**  
Commission # DD573041  
Expires July 11, 2010  
Bonded Troy Fair - Insurance, Inc. 800-388-7010

EXHIBIT "A"  
LEGAL DESCRIPTION OF THE LEASE PREMISES

MAY-18-2006 13:51 AMERICAN GOVT SCLS B139313362 P.02  
This Instrument Prepared by and  
Please Return To:  
Elaine Vergara  
American Government Services Corporation  
3812 W. Linebaugh Avenue  
Tampa, FL 33618  
AHT # 12925

QUIT CLAIM DEED

THIS INDENTURE, made this 24th day of March, A.D. 2006, between CSX Transportation, Inc., a Virginia Corporation formerly Seaboard Air Line Railway Company, whose address is 500 Water Street, Jacksonville, FL 32202, grantor, and the Board of Trustees of the Internal Improvement Trust Fund of the State of Florida, whose post office address is 3900 Commonwealth Blvd., Mail Station 115, Tallahassee, Florida, 32399-3000, grantee,

(Wherever used herein the terms "grantor" and "grantee" include all the parties to this instrument and their heirs, legal representatives, successors and assigns. "Grantor" and "grantee" are used for singular and plural, as the context requires and the use of any gender shall include all genders.)

WITNESSETH: That the said grantor, for and in consideration of the sum of Ten Dollars, to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has released, remised and quitclaimed, and by these presents does hereby remise, release, and quitclaim unto the said grantee, and grantee's successors and assigns forever, all the right, title and interest of grantor in and to the following described land situate, lying and being in Polk County, Florida, to-wit:

See Exhibit "A" Attached

This property is not the homestead property of the grantor, nor contiguous to homestead property, as such homestead is defined under Florida law.

TO HAVE AND TO HOLD the same together with all and singular the appurtenances thereunto belonging or in anywise appertaining, and all the estate, right, title, law or equity, to the only proper use, benefit and behoof of the said grantee, its successors and assigns forever.

IN WITNESS WHEREOF the grantor has hereunto set grantor's hand and seal, the day and year first above written.

Signed, sealed and delivered in the presence of:

CSX Transportation, Inc., a Virginia Corporation formerly Seaboard Air Line Railway Company

BY: [Signature]  
Stephen A. Crosby, as President of CSX Real Property, Inc.  
And as duly authorized agent of CSX Transportation, Inc.

[Signature]  
(Signature of first Witness)

Karen P. Clarke  
(Printed, typed or stamped name of first Witness.)

[Signature]  
(Signature of second Witness)

Carmen Elena Benitez  
(Printed, typed or stamped name of second witness)

(Corporate Seal)

STATE OF FLORIDA

COUNTY OF DUVAL

The foregoing instrument was acknowledged before me this 24<sup>th</sup> day of March, 2006, by Stephen A. Crosby, as President of CSX Real Property, Inc., and as duly authorized agent for CSX Transportation, Inc., a Virginia Corporation formerly Seaboard Air Line Railway Company on behalf on said corporation. Such person(s) (Notary Public must check applicable box):

- are personally known to me.
- produced a current driver license.
- produced \_\_\_\_\_ as identification.

[Signature]  
Notary Public  
Carmen Elena Benitez

(Printed, Typed or Stamped Name of Notary Public)

Commission No.: DD482409

My Commission Expires: 10-16-2009

(NOTARY PUBLIC SEAL)

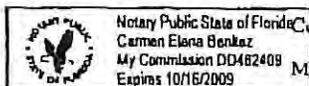
Appendix A-25

APPROVED  
FOR CLOSING

MAY 23 2006

[Signature]  
By: William C. Robinson, Jr.  
(DEP Attorney)

EXHIBIT A  
LEASE NO. 4546  
PAGE 13 OF 14



**EXHIBIT "A"**

Beginning at the intersection of the South right of way line of the Seaboard Air Line Railroad with the East line of Second Street in the City of Lake Wales, Polk County, Florida, said intersection being located 30 feet southerly from and at right angles to the center line of the said Seaboard Air Line Railroad, thence easterly along the said south right of way line of the Seaboard Air Line Railroad 30 feet southerly from and parallel with the center line of said Seaboard Air Line Railroad's Main Line Track, a distance of 250 feet, thence at right angles in a southerly direction a distance of 98 feet to a point, said point being 128 feet southerly from and at right angles to the center line of said Seaboard Air Line Railroad's Main Tract, thence at right angles in a westerly direction a distance of 250 feet to a point on the east line of said Second Street, thence at right angles in a northerly direction along the east line of Second Street, a distance of 98 feet to a place of beginning.

And

A strip of land, 60 feet in width, that is 30 feet on each side of the center line of the Seaboard Air Line Railway as surveyed and located across the land owned by said grantor in the Northeast quarter of Section 2, Township 30 South, Range 27 East, Polk County, Florida, lying westerly of the westerly right of way line of Fifth Street and easterly of the easterly right of way line of Second Street (Scenic Highway).

**EXHIBIT A  
LEASE NO. 4546  
PAGE 14 OF 14**

Project Name: Lake Wales Trailways  
Owner/Parcel #: CSX Corporation  
Sheet 1 of 1

**BSM APPROVED**  
By JA Date 9/5/25

Prepared By:  
Albert C. Galloway, Jr.  
Florida Bar No. 475802  
ALBERT C. GALLOWAY, JR., P.A.  
P.O. Box 3336  
Lake Wales, FL 33859-3336  
863/678-5333

**INSTR # 2006133226**  
BK 06797 PG 0609 PG(s) 1  
RECORDED 05/26/2006 04:02:24 PM  
RICHARD M MEISS, CLERK OF COURT  
POLK COUNTY  
DEED DOC 0.70  
RECORDING FEES 10.00  
RECORDED BY T Tierney

Return to: Albert C. Galloway, Jr.

**QUIT CLAIM DEED**

This **INDENTURE** is from the **CITY OF LAKE WALES**, a Florida municipal corporation, of PO Box 1320, Lake Wales, FL 33859-1320, (the "Grantor"), to **CSX TRANSPORTATION, INC.**, a Virginia corporation, of 500 Water Street, S/C J160, Jacksonville, FL 32202, (the "Grantee").

**Witness to**, that for and in consideration of \$10.00, the receipt and sufficiency whereof Grantor acknowledges, Grantor has granted, bargained, and sold to Grantee, and Grantee's heirs and assigns forever, the following described real property (the "Property") in Polk County, Florida:

Beginning at the intersection of the south right of way line of the Seaboard Air Line Railroad with the east line of Second Street in the City of Lake Wales, Polk County, Florida, said intersection being located 30 feet southerly from and at right angles to the center line of the said Seaboard Air Line Railroad, thence easterly along the said south right of way line of the Seaboard Air Line Railroad 30 feet southerly from and parallel with the center line of said Seaboard Air Line Railroad's Main Line Track, a distance of 250 feet, thence at right angles in a southerly direction a distance of 98 feet to a point, said point being 128 feet southerly from and at right angles to the center line of said Seaboard Air Line Railroad's Main Tract, thence at right angles in a westerly direction a distance of 250 feet to a point on the east line of said Second Street, thence at right angles in a northerly direction along the east line of Second Street, a distance of 98 feet to a place of beginning.

AND

A strip of land, 60 Feet in width, that is 30 feet on each side of the center line of the Seaboard Air Line Railway as surveyed and located across the land owned by said Grantor in the Northeast quarter of Section 2, Township 30 South, Range 27 East, Polk County, Florida, lying westerly of the westerly right of way line of Fifth Street and easterly of the easterly right of way line of Second Street (Scenic Highway).

THIS INSTRUMENT IS FOR TITLE CURATIVE PURPOSES AND WAS PREPARED FROM INFORMATION FURNISHED BY THE PARTIES. NO TITLE ASSURANCE WAS REQUESTED OR GIVEN.

**TOGETHER** with all and singular tenements, hereditaments, and appurtenances belonging or in any wise appertaining to the property.

**TO HAVE AND TO HOLD** the same, together with all and singular the appurtenances thereunto belonging or in any wise appertaining to the property, and all the Grantor's estate, right, title, interest and claim whatsoever, either in law or equity, to the Grantee's proper use, benefit and behoof.

Signed by the Grantor on this 15 day of November, 2005.

Attest with a Seal:

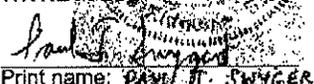
**CITY OF LAKE WALES, FLORIDA**

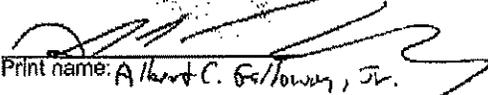
By:   
CITY CLERK

By:   
Lee A. Wheeler, III, Mayor

WITNESSES:

**AMERICAN GOVERNMENT**  
3812 W LINEBAUGH AVE  
TAMPA, FL 33618

  
Print name: PAUL H. SWYGERT

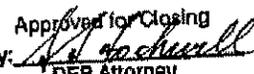
  
Print name: Albert C. Galloway, Jr.

**ACKNOWLEDGMENT**

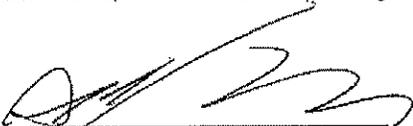
The foregoing instrument was acknowledged before me in Polk County, Florida, on this 15 day of November, 2005, by **Lee A. Wheeler, III**, Mayor of the City of Lake Wales, for and on behalf of the City of Lake Wales, who is personally known to me.

My Commission Expires

Approved for Closing

By:   
DEP Attorney

Date: 11-23-05

  
**NOTARY PUBLIC**  
Albert C. Galloway, Jr.  
Commission # DP 074814  
Expires Jan. 9, 2006  
Bundled Titles  
Atlantic Bonding Co., Inc.

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## APPENDIX B

### Comprehensive Plan

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July 15, 2009



**City of  
Lake Wales**

201 Central Avenue W.  
P. O. Box 1320  
Lake Wales, FL 33859-1320  
Phone (863) 678-4182  
Fax (863) 678-4180

Marsha Connell  
Office of Greenways and Trails  
3900 Commonwealth Blvd., MS 795  
Tallahassee, FL 32399-3000

Dear Ms. Connell,

This letter is to confirm that the Rails-to-Trails Project is included as part of the City of Lake Wales Comprehensive Plan. This plan was adopted in the year 2000 and amended in the year 2005.

Policy 3.03 under Objective 3 Recreation Facilities identifies the need for additional bike paths in Lake Wales. Policy 4.02 under Objective 4 Coordination with Other Recreation Providers includes the need to develop a recreation trail from the abandoned rail corridor.

Sincerely,

Judith H. Delmar, Interim City Manager

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# City of Lake Wales

Progressive Vision ♦ Vintage Charm

201 Central Avenue W., P. O. Box 1320

Lake Wales FL 33859-1320

Phone (863) 678-4182, ext. 714 or Fax (863) 678-4050

[www.cityoflakewales.com](http://www.cityoflakewales.com)

## COMPREHENSIVE PLAN

## GOALS, OBJECTIVES & POLICIES



Adopted – August 2000

Amended – March 2005

**CITY OF LAKE WALES  
COMPREHENSIVE PLAN**

**GOALS, OBJECTIVES AND POLICIES**

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**RECREATION AND OPEN SPACE ELEMENT  
GOALS, OBJECTIVES & POLICIES**

**GOAL:** It shall be the goal of the City of Lake Wales to provide a system of parks, recreation facilities, and open space to meet the needs of all residents. [9J-5.014(3)(a)]

**Objective 1: Allocation of Park and Recreation Land**

At a minimum maintain the existing system of public park and recreation lands.  
[9J-5.014(3)(b)3,4]

Policy 1.01: The following level of service standards for parks and recreation are hereby established:

Mini-Parks (less than 1 acre) - .25 acre per 1,000 population

Neighborhood Parks (1-15 acres) - 1.5 acres per 1,000 population

Community Parks (16-100 acres) - 2 acres per 1,000 population

Aggregate - 3.75 acres per 1,000 population

Any land permanently dedicated or available to the public for recreation, regardless of provider, may be used to meet the level of service standard. [9J-5.014(3)(c)4]

Policy 1.02: By October 1, 2001, ensure through the adoption of land development regulations and a concurrency management system that no development order will be issued for any development that would result in failure of the recreation and park system to meet the adopted LOS standards.

**Objective 2: Access to Parks and Recreation Lands**

Ensure that all public parks, recreation lands, and lakeshores are accessible to the public by means of walking, bicycling, and, where appropriate, by motor vehicle by 2005. [9J-5.014(3)(b)1]

Policy 2.01: By December 31, 2002, the Leisure Services Director and the Public Services Director shall evaluate access to public parks and recreation lands and lakes and make recommendations to the City Commission for improvements. They shall consider, (1) the adequacy of motor vehicle parking, (2) impediments to bicycle access, (3) impediments to pedestrian access, (4) impediments to access by the elderly and disabled. [9J-5.014(3)(c)1, 4]

### **Objective 3: Recreation Facilities**

Provide recreation facilities on municipal park and recreation lands to meet the expressed needs and demands of city residents by 2010. [9J-5.014(3)(b)3]

Policy 3.01: By October 1, 2005, the Leisure Services Director and the Public Services Director shall establish standards for the maintenance, aesthetics, landscaping, and signage of city parks.

Policy 3.02: The Recreation Advisory Committee shall recommend annually to the City Commission what, if any, improvements or additions should be made to municipal recreation facilities. The Committee shall consider the expressed desires of residents through an annual survey or open public meeting or series of meetings. [9J-5.014(3)(c)5]

Policy 3.03: By October 1, 2004, the Leisure Services Director and the Public Services Director, with input from the Recreation Advisory Committee, shall evaluate and make recommendations to the City Commission regarding designation of streets as bicycle routes and the creation of additional bicycle paths within city parks.

### **Objective 4: Coordination with Other Recreation Providers**

Increase the recreation opportunities available to the residents of Lake Wales through coordination and cooperation with other recreation providers. Establish a list of providers by 2001. [9J-5.014(3)(b)2]

Policy 4.01: The Leisure Services Director shall continue to coordinate annually with Polk County to suggest improvements or additions to the county park and recreation system that are desired by the residents of Lake Wales, based on the recommendations of the Recreation Advisory Committee.

Policy 4.02: The Leisure Services Director and the Public Services Director shall continue to coordinate with officials of Polk County, the Florida Department of Environmental Protection, Polk Rails-to-Trails, Inc., and other Polk County municipalities on the Ridge to explore the feasibility of acquiring and developing a recreational trail on the abandoned railroad corridor through Lake Wales.

Policy 4.03: Continue existing agreements with the Polk County School Board and individual school principals regarding public use of school recreation facilities.

### **Objective 5: Recreation Programming**

Expand organized recreation programs offered to residents by 2005.

Policy 5.01: The Leisure Services Director, with input from the Recreation Advisory Committee, shall continue to recommend annually to the City Commission ways and means, if any, to improve organized recreation programs available to residents.

**Objective 6: Open Space**

Ensure that functional and aesthetic open space is preserved to retain the attractiveness and small-town character of Lake Wales and adopt standards in the Land Development Regulations by 2001. [9J-5.014(3)(b)4]

Policy 6.01: Existing parks and other areas designated as open space on the Future Land Use Map Series shall remain functionally intact and protected from land uses that would adversely impact the designated purpose of such lands. [9J-5.014(3)(c)2]

Policy 6.02: Through the Future Land Use Map Series and land development regulations, direct new development to areas where existing open space areas can be used to buffer dissimilar developed land uses.

Policy 6.03: By October 1, 2001, adopt as part of land development regulations. definitions and standards for the provision of open space including landscape buffers, required yards, and setbacks by new development. [9J-5.014(3)(c)2]

Policy 6.04: The City shall continue to work with Polk County and Bok Tower to ensure adoption of the North Lake Wales Selected Area Study.

**Objective 7: Parks and Recreation Funding and Implementation**

Develop an action plan to prioritize recommended actions for the provision or improvement of parks and recreation; to identify funding sources; and to schedule and budget priority actions annually by 2001. [9J-5.014(3)(b)3]

Policy 7.01: Make use of all available grants, funds, and assistance from other government agencies or private organizations for the provision or improvement of parks and recreation in the city.

Policy 7.02: Coordinate annually the need for capital improvements for parks and recreation with the Capital Improvements Element and budget.

Policy 7.03: The Leisure Services Director and the Public Services Director shall annually make recommendations to the City Commission regarding adequate funding for the provision, operation, and maintenance of park and recreation lands and facilities and proposed funding sources including a schedule of fees and charges.

## HISTORIC PRESERVATION ELEMENT GOAL, OBJECTIVES, & POLICIES

**GOAL:** It shall be the goal of the City of Lake Wales to identify, document, protect, and preserve its archaeological, historic, architectural and cultural resources. Instilling public awareness of those resources shall be a part of the effort.

### **Objective 1: Administration of Historic Preservation**

Improve the city's effectiveness in the administration of ordinances, codes, rules, and other provisions of the municipal code and practices which address historic preservation activity; assistance to residents and property owners in promoting historic preservation, and managing the historic resources under its jurisdiction.

Policy 1.01: The Special Programs Department shall continue to coordinate municipal historic preservation activities, act as city liaison for providing assistance and information regarding historic preservation, and assemble and manage the base of information required to support that responsibility.

Policy 1.02: By October 1, 2005, consider a historic preservation ordinance that contains provisions which will enable the city to become a Certified Local Government. If adopted, the ordinance shall be legally sufficient to enable the city to implement the recommendations, goal, objectives and policies contained in the Historic Preservation Element.

Policy 1.03: If adopted, the historic preservation ordinance shall enable the City Commission to designate sites, districts and buildings as "historic" and to extend the authority of the city as specified in the ordinance over such designated properties. Designated sites, properties and districts shall be recorded on zoning panel maps employed by the Development Services department. The Property Appraiser's office will also be notified of this designation.

Policy 1.04: Pursue acceptance in the Certified Local Government Program administered by the Florida Department of State as means to obtain information about financial assistance for the municipal historic preservation program.

Policy 1.05: The departments, agencies and authorities of the city or companies or contractors representing any department, agency or authority of the city performing work for the city shall submit for review by a review authority established under the Historic Preservation Ordinance, if adopted, any plans that will physically alter the appearance of a designated site, property or historic district.

Policy 1.06: Encourage the continued use of historic buildings for its purposes and consider the acquisition of historic buildings for adaptive reuse for

municipal purposes when additional space is required. Any pre-1940 building considered for surplus by the city shall be submitted prior to sale for review by an established review authority. Any building determined to have historical or architectural significance shall be sold by the city with protective covenants to ensure its preservation and proper rehabilitation.

**Objective 2: Survey, Evaluation, and Data Management**

Identify, document, record, and evaluate the historic resources within the city's jurisdiction.

- Policy 2.01: Continue to identify areas and sites within its jurisdiction that have known or potential archaeological significance.
- Policy 2.02: By December 31, 2005, consider developing a city-wide archaeological sensitivity map to indicate the probability of archaeological sites. This map will be used to review the possible impact of both public and private projects upon archaeological resources.
- Policy 2.03: By December 31, 2004, consider conducting a survey of all publicly-owned and managed properties including lands, buildings and features, in order to compile an inventory of historic resources under city supervision.
- Policy 2.04: By December 31, 2004, consider establishing a system for recording buildings, sites and objects within the city that have been identified and recorded through standard professional surveys of historic resources conducted by qualified individuals and organizations. That information, to include site files and maps, shall be maintained for location, identification and evaluation purposes.
- Policy 2.05: By December 31, 2004, the appropriate department of city government, upon instruction of the City Commission, shall maintain and update for planning and permitting purposes, a U.S.G.S. series of topographic maps upon which recorded archaeological sites are shown.
- Policy 2.06: By December 31, 2005, consider developing a uniform historic district map series, using a standard of one inch equals 200 feet, to record designated landmarks and districts. All existing historic district maps will be brought into conformity with this scale.
- Policy 2.07: Encourage property owners to apply for designation of eligible properties to the National Register of Historic Places.

### **Objective 3: Economic Incentives for Preservation**

Establish and improve property values and stabilize the tax base in designated historic districts by encouraging property owners to maintain and improve buildings, grounds, streetscapes and vistas; and by undertaking municipal action to accomplish the same objective. That policy shall encourage settlement and revitalization of historic neighborhoods instead of extending infrastructure to undeveloped sections.

Policy 3.01: Street, sidewalk, utility and other improvements undertaken by the city in designated historic districts shall be consistent with the historic character of those districts. These historically sensitive improvements will encourage and support stabilization and/or revitalization of designated historic districts.

Policy 3.02: The Special Programs Department will investigate and make specific recommendations to the City Commission regarding changes or modifications in the zoning code that will protect the character of designated historic districts.

Policy 3.03: Any project sponsored financially or administratively by or under the authority of the city that rehabilitates or constructs new buildings within a designated historic district shall adhere to appropriate historic preservation standards for such activity.

Policy 3.04: Consider revising traffic circulation patterns and plans in designated historic districts in order to slow and limit damaging arterial and cut through traffic.

Policy 3.05: To protect and preserve historic resources, investigate the feasibility of and consider supporting or adopting legal and financial measures, such as Transfer of Development Rights, easements, loan pools, revolving funds and "conservation" areas or districts for archaeologically sensitive lands.

Policy 3.06: Consider the use of tax increment financing as a mechanism to promote the improvement of designated historic districts.

Policy 3.07: Consider the improvement and/or development of parks in designated historic districts.

Policy 3.08: By October 1, 2001, consider adopting by ordinance provision 101.6 of the 1988 Standard Building Code.

Policy 3.09: Pursue alternatives that will lead to the preservation as opposed to the destruction of buildings located in designated historic districts. The city shall encourage owners to consider transfer of the properties under favorable terms with attached covenants for preservation.

#### **Objective 4: Public Awareness**

Employ historic preservation as a means to strengthen the local economy through increased tourism and local visitation at historic sites.

Policy 4.01: Significant historic buildings, structures and archaeological sites in private and public ownership shall be marked with plaques by December 31, 2004 to inform the public of their historic or architectural significance. The design, wording, selection, schedule, and funding shall be provided through an appropriate organization designated by City Commission.

Policy 4.02: Consider conducting a study to identify and evaluate historic buildings, sites, and districts that have visitor appeal.

Policy 4.03: In addition to distributing information about local historic resources, the city and cooperating organizations sponsored by city government shall consider establishing by December 31, 2002 a program to promote the city's history and architectural heritage. The city shall seek the support of private groups such as the Chamber of Commerce to promote historical tourism and shall assist those organizations with information from its data base and site files.

#### **Objective 5: Education**

Initiate a program of public education about historic preservation.

Policy 5.01: The city and its agencies and departments shall encourage the publication of brochures, pamphlets and books to inform residents, property owners, and visitors about historic sites, the historic preservation process, the organizations in the city that are engaged in historic preservation activity, and the city's own preservation program and ordinances.

Policy 5.02: In conjunction with educational and cultural institutions and historic organizations, the city shall consider sponsoring seminars for the public on historic preservation topics, particularly on the economic advantages inherent in the rehabilitation of historic buildings.

Policy 5.03: Upon approval of a historic preservation ordinance, the Special Programs Department shall undertake to inform residents and property owners of their responsibilities. The adoption and implementation process of such an ordinance must include the development of precise and clear forms, such as "designation reports" and "certificate of approval".

Policy 5.04: Clear guidelines spelling out the kinds of building alterations that will be acceptable under an adopted historic preservation ordinance will be drafted and made available to people seeking approval for architectural

changes under that ordinance. State financial assistance and the professional advice of local historic preservation organizations are available to the city in that effort.

Policy 5.05: Encourage and support the development and maintenance of present and future historic preservation organizations, especially those with specific neighborhood identities; and it will provide technical information that it has available to such organizations and serve as a liaison between them and the state and federal historic preservation offices, if requested.

Policy 5.06: Assist local historic organizations in attracting funding support from federal, state, and private grant sources and shall consider awarding matching funds if available for historic preservation projects.

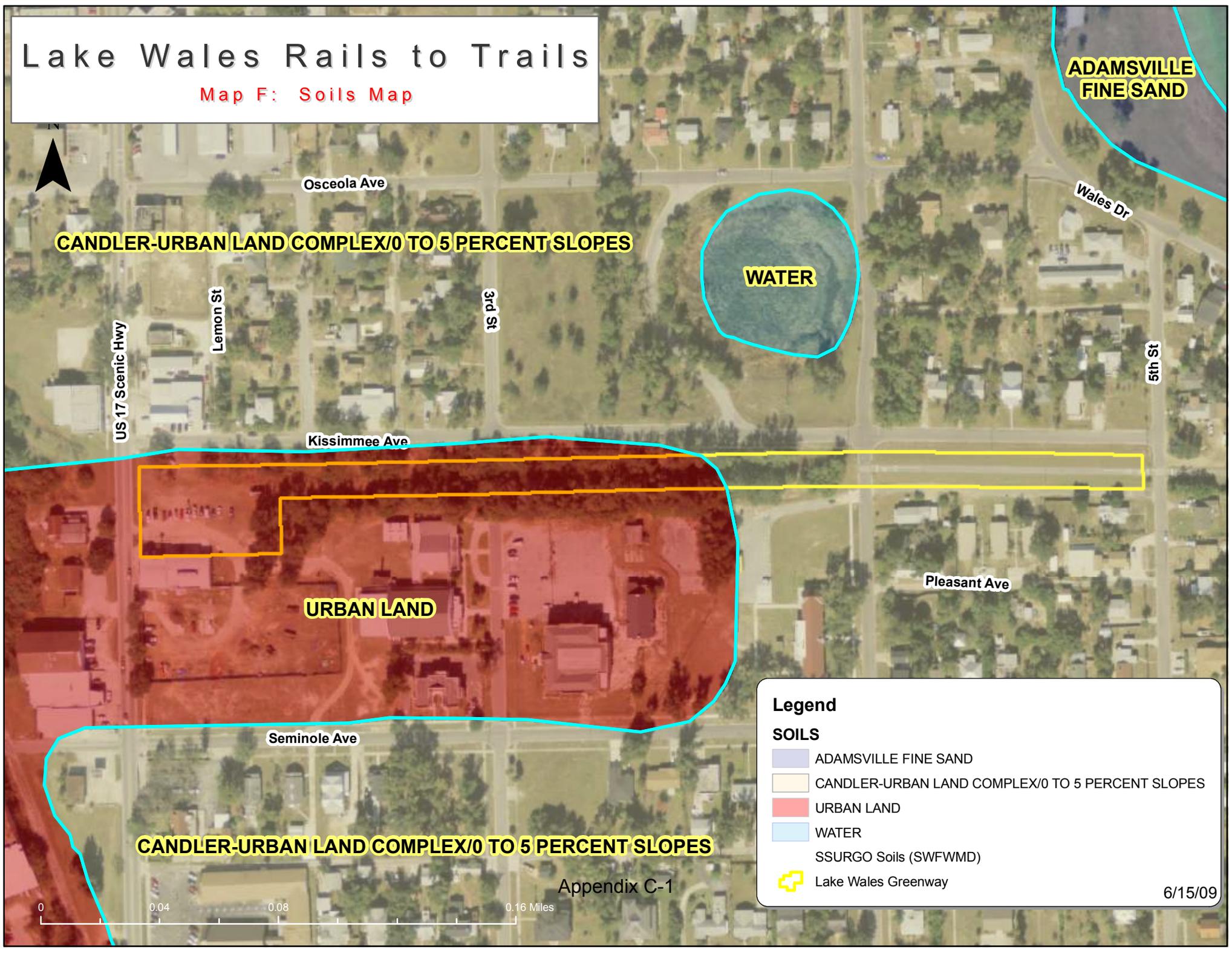
# APPENDIX C

## Soil Report

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# Lake Wales Rails to Trails

Map F: Soils Map



## Legend

### SOILS

-  ADAMSVILLE FINE SAND
-  CANDLER-URBAN LAND COMPLEX/0 TO 5 PERCENT SLOPES
-  URBAN LAND
-  WATER
-  SSURGO Soils (SWFWMD)

 Lake Wales Greenway

Appendix C-1



6/15/09

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# Custom Soil Resource Report for **Polk County, Florida**



Appendix C-2

# Preface

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Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://soils.usda.gov/sqi/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<http://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist ([http://soils.usda.gov/contact/state\\_offices/](http://soils.usda.gov/contact/state_offices/)).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Soil Data Mart Web site or the NRCS Web Soil Survey. The Soil Data Mart is the data storage site for the official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means

for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

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# **How Soil Surveys Are Made**

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Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the

## Custom Soil Resource Report

individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

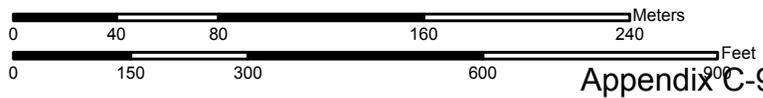
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

# Soil Map

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The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

# Custom Soil Resource Report Soil Map



Appendix C-9

# Custom Soil Resource Report

## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Units

### Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot
-  Spoil Area
-  Stony Spot

 Very Stony Spot

 Wet Spot

 Other

### Special Line Features

-  Gully
-  Short Steep Slope
-  Other

### Political Features

 Cities

### Water Features

-  Oceans
-  Streams and Canals

### Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

## MAP INFORMATION

Map Scale: 1:3,030 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:20,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
 Coordinate System: UTM Zone 17N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Polk County, Florida  
 Survey Area Data: Version 5, Dec 6, 2006

Date(s) aerial images were photographed: 8/12/2007

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Polk County, Florida (FL105)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
16	Urban land	2.3	23.2%
50	Candler-Urban land complex, 0 to 5 percent slopes	7.8	76.8%
<b>Totals for Area of Interest</b>		<b>10.1</b>	<b>100.0%</b>

## Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

## Custom Soil Resource Report

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

## Polk County, Florida

### 16—Urban land

#### Map Unit Setting

*Elevation:* 10 to 150 feet

*Mean annual precipitation:* 46 to 54 inches

*Mean annual air temperature:* 70 to 77 degrees F

*Frost-free period:* 350 to 365 days

#### Map Unit Composition

*Urban land:* 85 percent

*Minor components:* 15 percent

#### Description of Urban Land

##### Setting

*Landform:* Marine terraces

*Landform position (three-dimensional):* Interfluve, talf

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* No parent material

#### Minor Components

##### Apopka

*Percent of map unit:* 5 percent

*Landform:* Ridges on marine terraces, knolls on marine terraces

*Landform position (three-dimensional):* Interfluve, side slope

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Ecological site:* Longleaf Pine-Turkey Oak Hills (R154XY002FL)

##### Millhopper

*Percent of map unit:* 5 percent

*Landform:* Ridges on marine terraces, knolls on marine terraces

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Ecological site:* Upland Hardwood Hammocks (R154XY008FL)

##### Adamsville

*Percent of map unit:* 5 percent

*Landform:* Rises on marine terraces, ridges on marine terraces

*Landform position (three-dimensional):* Interfluve, talf

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Ecological site:* South Florida Flatwoods (R154XY003FL)

## 50—Candler-Urban land complex, 0 to 5 percent slopes

### Map Unit Setting

*Elevation:* 50 to 150 feet

*Mean annual precipitation:* 46 to 54 inches

*Mean annual air temperature:* 70 to 77 degrees F

*Frost-free period:* 350 to 365 days

### Map Unit Composition

*Candler and similar soils:* 55 percent

*Urban land:* 45 percent

### Description of Candler

#### Setting

*Landform:* Ridges on marine terraces, knolls on marine terraces

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Eolian deposits and/or sandy and loamy marine deposits

#### Properties and qualities

*Slope:* 0 to 5 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Excessively drained

*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (5.95 to 19.98 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Maximum salinity:* Nonsaline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 4.0

*Available water capacity:* Very low (about 2.5 inches)

#### Interpretive groups

*Land capability (nonirrigated):* 4s

#### Typical profile

*0 to 6 inches:* Sand

*6 to 63 inches:* Sand

*63 to 80 inches:* Sand

### Description of Urban Land

#### Setting

*Landform:* Marine terraces

*Landform position (three-dimensional):* Interfluve, talf

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* No parent material



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## Custom Soil Resource Report

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## APPENDIX D

### Florida Natural Areas Inventory Report

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fax 850-681-9364  
www.fnai.org

Ms. Marsha Connell  
Office of Greenways and Trails  
3900 Commonwealth Blvd., MS 795  
Tallahassee, FL 32399-3000

July 8, 2009

Dear Marsha,

I have reviewed the FNAI database for rare species information that pertains to the 3.2 acre Lake Wales Trailways property in Polk County, Florida. We have a 1984 record for the blue-tailed mole skink (*Eumeces egregius lividus*) in the vicinity of the property. This species is federally and state listed as Threatened and has FNAI Global and State Ranks of G4T2 and S2, respectively (rank explanations attached). It occurs in scrub on the Lake Wales Ridge in Polk, Highlands, and Osceola counties.

If suitable scrub habitat occurs on the property, there is a high potential for the presence of the blue tailed mole skink. Although the property is quite small, if there is scrub I recommend you contact Florida Fish and Wildlife Conservation Commission (FWC) and the U.S. Fish and Wildlife Service (USFWS) for further guidance. FWC's Southwest Regional Office in Lakeland can be reached at (863) 648-3200. The USFWS's South Florida Ecological Services Office in Vero Beach can be reached at (772) 562-3909.

Approximately two miles away, we have records for several rare scrub plants within the Lake Wales Ridge Wildlife and Environmental Area. If suitable scrub habitat exists on the Lake Wales Trailways, these species could be on site. They are listed in the table below.

Rare plants occurring in scrub within two miles of the Lake Wales Trailways

Common name	Scientific name	FNAI Global Rank	FNAI State Rank	Federal Status	State Status
Britton's Beargrass	<i>Nolina brittoniana</i>	G3	S3	LE	LE
Florida Bonamia	<i>Bonamia grandiflora</i>	G3	S3	LT	LE
Florida Jointweed	<i>Polygonella basiramia</i>	G3	S3	LE	LE
Paper-like Nailwort	<i>Paronychia chartacea</i> ssp. <i>chartacea</i>	G3T3	S3	LT	LE
Scrub Bluestem	<i>Schizachyrium niveum</i>	G1	S1	N	LE
Scrub Pigeon-wing	<i>Clitoria fragrans</i>	G3	S3	LT	LE
Scrub Stylisma	<i>Stylisma abdita</i>	G3	S3	N	LE



Florida Resources and Environmental Analysis Center

Institute of Science and Public Affairs

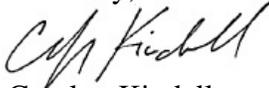
The Florida State University

If future surveys reveal these or other rare plants occur on the property, I recommend you contact Bok Tower Garden's Conservation Program manager, Cheryl Peterson, at 863.676.1408, extension 2237. She may be able to advise you regarding conservation of rare plants or their seed stock from the site. The USFWS in Vero Beach can also provide guidance specific to federally listed plants.

The FNAI database is the single most comprehensive source of information available on the locations of rare species and other significant ecological resources. However, the data are not always based on comprehensive or site-specific field surveys. Therefore, this information should not be regarded as the final statement on the biological resources of the site, nor should it be substituted for on-site surveys. We always recommend that professionals familiar with Florida flora and fauna be used to conduct site-specific surveys to determine the current presence or absence of rare, threatened, or endangered species on a property.

Thank you for requesting this information from FNAI. Please contact me if you have any questions at (850) 224- 8207 ext 204, or [ckindell@fnai.org](mailto:ckindell@fnai.org)

Sincerely,



Carolyn Kindell  
Managed Areas Biologist  
Encl



Florida Resources  
and Environmental  
Analysis Center

Institute of Science  
and Public Affairs

The Florida State University

## GLOBAL AND STATE RANKS

Florida Natural Areas Inventory (FNAI) defines an **element** as any rare or exemplary component of the natural environment, such as a species, natural community, bird rookery, spring, sinkhole, cave, or other ecological feature. FNAI assigns two ranks to each element found in Florida: the **global rank**, which is based on an element's worldwide status, and the **state rank**, which is based on the status of the element within Florida. Element ranks are based on many factors, including estimated number of occurrences, estimated abundance (for species and populations) or area (for natural communities), estimated number of adequately protected occurrences, range, threats, and ecological fragility.

## GLOBAL RANK DEFINITIONS

- G1** Critically imperiled globally because of extreme rarity (5 or fewer occurrences or less than 1000 individuals) or because of extreme vulnerability to extinction due to some natural or man-made factor.
- G2** Imperiled globally because of rarity (6 to 20 occurrences or less than 3000 individuals) or because of vulnerability to extinction due to some natural or man-made factor.
- G3** Either very rare and local throughout its range (21-100 occurrences or less than 10,000 individuals) or found locally in a restricted range or vulnerable to extinction from other factors.
- G4** Apparently secure globally (may be rare in parts of range).
- G5** Demonstrably secure globally.
- G#?** Tentative rank (e.g., G2?)
- G#G#** Range of rank; insufficient data to assign specific global rank (e.g., G2G3)
- G#T#** Rank of a taxonomic subgroup such as a subspecies or variety; the G portion of the rank refers to the entire species and the T portion refers to the specific subgroup; numbers have same definition as above (e.g., G3T1)
- G#Q** Rank of questionable species - ranked as species but questionable whether it is species or subspecies; numbers have same definition as above (e.g., G2Q)
- G#T#Q** Same as above, but validity as subspecies or variety is questioned.
- GH** Of historical occurrence throughout its range, may be rediscovered (e.g., ivory-billed woodpecker)
- GNA** Ranking is not applicable because element is not a suitable target for conservation (e.g. as for hybrid species)
- GNR** Not yet ranked (temporary)
- GNRTNR** Neither the full species nor the taxonomic subgroup has yet been ranked (temporary)
- GX** Believed to be extinct throughout range
- GXC** Extirpated from the wild but still known from captivity/cultivation
- GU** Unrankable. Due to lack of information, no rank or range can be assigned (e.g., GUT2).

## STATE RANK DEFINITIONS

Definition parallels global element rank: substitute "S" for "G" in above global ranks, and "in Florida" for "globally" in above global rank definitions.

**FEDERAL AND STATE LEGAL STATUSES (U.S. Fish and Wildlife Service – USFWS)  
PROVIDED BY FNAI FOR INFORMATION ONLY.**

For official definitions and lists of protected species, consult the relevant state or federal agency.

**FEDERAL LEGAL STATUS**

Definitions derived from U.S. Endangered Species Act of 1973, Sec. 3. Note that the federal status given by FNAI refers only to Florida populations and that federal status may differ elsewhere.

- LE** Listed as Endangered Species in the List of Endangered and Threatened Wildlife and Plants under the provisions of the Endangered Species Act. Defined as any species which is in danger of extinction throughout all or a significant portion of its range.
- LE,XN** A non essential experimental population of a species otherwise Listed as an Endangered Species in the List of Endangered and Threatened Wildlife and Plants. LE,XN for *Grus americana* (Whooping crane), Federally listed as XN (Non essential experimental population) refers to the Florida experimental population only. Federal listing elsewhere for *Grus americana* is LE.
- PE** Proposed for addition to the List of Endangered and Threatened Wildlife and Plants as Endangered Species.
- LT** Listed as Threatened Species, defined as any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.
- LT,PDL** Species currently listed Threatened but has been proposed for delisting.
- PT** Proposed for listing as Threatened Species.
- C** Candidate Species for addition to the list of Endangered and Threatened Wildlife and Plants, Category 1. Federal listing agencies have sufficient information on biological vulnerability and threats to support proposing to list the species as Endangered or Threatened.
- SAT** Threatened due to similarity of appearance to a threatened species.
- SC** Species of Concern, species is not currently listed but is of management concern to USFWS.
- N** Not currently listed, nor currently being considered for addition to the List of Endangered and Threatened Wildlife and Plants.

**FLORIDA LEGAL STATUSES (Florida Fish and Wildlife Conservation Commission – FFWCC/  
Florida Department of Agriculture and Consumer Services – FDACS)**

**Animals:** Definitions derived from “Florida’s Endangered Species and Species of Special Concern, Official Lists” published by Florida Fish and Wildlife Conservation Commission - FFWCC, 1 August 1997, and subsequent updates.

- LE** Listed as Endangered Species by the FFWCC. Defined as a species, subspecies, or isolated population which is so rare or depleted in number or so restricted in range of habitat due to any man-made or natural factors that it is in immediate danger of extinction or extirpation from the state, or which may attain such a status within the immediate future.
- LT** Listed as Threatened Species by the FFWCC. Defined as a species, subspecies, or isolated population which is acutely vulnerable to environmental alteration, declining in number at a rapid rate, or whose range or habitat is decreasing in area at a rapid rate and as a consequence is destined or very likely to become an endangered species within the foreseeable future.
- LT\*** Indicates that a species has LT status only in selected portions of its range in Florida. LT\* for *Ursus americanus floridanus* (Florida black bear) indicates that LT status does not apply in Baker and Columbia counties and in the Apalachicola National Forest. LT\* for *Neovison vison* pop. 1 (Southern mink, South Florida population) state listed as Threatened refers to the Everglades population only (Note: species formerly listed as *Mustela vison* mink pop. 1. Also, priorly listed as *Mustela evergladensis*).
- LS** Listed as Species of Special Concern by the FFWCC, defined as a population which warrants special protection, recognition, or consideration because it has an inherent significant vulnerability to habitat modification,

environmental alteration, human disturbance, or substantial human exploitation which, in the foreseeable future, may result in its becoming a threatened species.

**LS\*** Indicates that a species has LS status only in selected portions of its range in Florida. LS\* for *Pandion haliaetus* (Osprey) state listed as LS (Species of Special Concern) in Monroe County only.

**PE** Proposed for listing as Endangered.

**PT** Proposed for listing as Threatened.

**PS** Proposed for listing as a Species of Special Concern.

**N** Not currently listed, nor currently being considered for listing.

**Plants:** Definitions derived from Sections 581.011 and 581.185(2), Florida Statutes, and the Preservation of Native Flora of Florida Act, 5B-40.001. FNAI does not track all state-regulated plant species; for a complete list of state-regulated plant species, call Florida Division of Plant Industry, 352-372-3505 or please visit: <http://DOACS.State.FL.US/PI/Images/Rule05b.pdf>

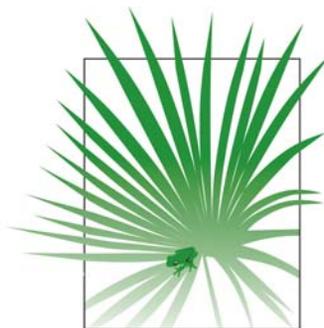
**LE** Listed as Endangered Plants in the Preservation of Native Flora of Florida Act. Defined as species of plants native to the state that are in imminent danger of extinction within the state, the survival of which is unlikely if the causes of a decline in the number of plants continue, and includes all species determined to be endangered or threatened pursuant to the Federal Endangered Species Act of 1973, as amended.

**PE** Proposed by the FDACS for listing as Endangered Plants.

**LT** Listed as Threatened Plants in the Preservation of Native Flora of Florida Act. Defined as species native to the state that are in rapid decline in the number of plants within the state, but which have not so decreased in such number as to cause them to be endangered. LT\* indicates that a species has LT status only in selected portions of its range in Florida.

**PT** Proposed by the FDACS for listing as Threatened Plants.

**N** Not currently listed, nor currently being considered for listing.



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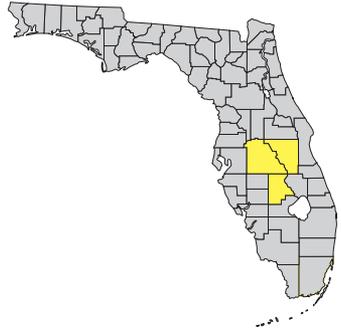
FLORIDA  
**Natural Areas**  
INVENTORY

*Tracking Florida's Biodiversity*

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## BLUE-TAILED MOLE SKINK

*Eumeces egregius lividus*



**Order:** Squamata  
**Family:** Scincidae  
**FNAI Ranks:** G4T2/S2  
**U.S. Status:** Threatened  
**FL Status:** Threatened



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**Description:** A small, slender, brownish lizard with smooth, shiny scales; neck and head of equal width; a blue tail that may become pinkish with age; and two faint light lines on upper sides that diverge posteriorly. Legs small but fully developed, with five toes on each foot. Late-winter breeding males develop orange sides. Adults up to 5 in. (127 mm) total length; the tail comprises slightly more than half.

## **BLUE-TAILED MOLE SKINK**    *Eumeces egregius lividus*

**Similar Species:** Several other small skinks occur within or near the range of this subspecies. Older adult blue-tailed mole skinks, and those with broken or regenerated tails, are indistinguishable from the related peninsular mole skink (*Eumeces e. onocrepis*), so identification must be based on locality. The sand skink (*Neoseps reynoldsi*; see species account) is very pale, lacks stripes, and has tiny legs with only one or two toes per foot. The widespread ground skink (*Scincella lateralis*) is bronze to brown, with a dark lateral stripe and light belly. Juvenile five-lined, southeastern five-lined, and broad-headed skinks (*E. fasciatus*, *E. inexpectatus*, and *E. laticeps*) have bright blue tails, gold stripes on a black back, and more robust bodies. All salamanders lack scales.

**Habitat:** Well-drained sandy uplands above 100 ft. (30 m), usually with an abundance of scattered shrubs and lichens. Favors rosemary, oak, and sand pine scrubs; occasional in turkey oak barrens, sandhill, and xeric hammock. Requires loose sand (for burrowing) with patches of sparse to no groundcover or canopy; often found in leaf litter.

**Seasonal Occurrence:** Present but difficult to observe year-round.

**Florida Distribution:** Lake Wales Ridge in Polk, Highlands, and western Osceola counties.

**Range-wide Distribution:** Same as Florida distribution. Other subspecies of *E. egregius* range throughout the state and into southern Georgia and Alabama.

**Conservation Status:** Occurs within a series of disjunct state, federal, and private conservation lands. Most original habitat has been destroyed for citrus and development.

**Protection and Management:** Protect all remaining patches of Lake Wales Ridge scrub. Management may entail infrequent prescribed fire.

**References:** Ashton and Ashton 1991, Bartlett and Bartlett 1999, Conant and Collins 1991, Moler (ed.) 1992, U.S. Fish and Wildlife Service 1987.

## APPENDIX E

Florida Fish & Wildlife Conservation Commission Report

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Florida Fish  
and Wildlife  
Conservation  
Commission

Commissioners

Rodney Barreto  
Chair  
Miami

Kathy Barco  
Vice-Chair  
Jacksonville

Ronald M. Bergeron  
Fort Lauderdale

Richard A. Corbett  
Tampa

Dwight Stephenson  
Delray Beach

Kenneth W. Wright  
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Brian S. Yablonski  
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Nick Wiley  
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(800) 955-8770 (V)

MyFWC.com

May 12, 2009

Ms. Jennifer Nanek  
City of Lake Wales  
201 W. Central Avenue  
P.O. Box 1320  
Lake Wales, FL 33853-1320

Dear Ms. Nanek:

This letter is in response to your request for listed species occurrence records for your project (Lake Wales Trailways), located in Polk County, Florida. No records of listed species occurrence or critical habitats from the Florida Fish and Wildlife Conservation Commission database were located within the project area. Enclosed are 8.5 x 11 maps showing biodiversity hotspots, priority wetlands for listed species, SHCA's for sand skinks, and land cover for the project area.

This letter and/or attachments should not be considered as a review or an assessment of the impact upon threatened or endangered species of the project site. It provides FWC's most current data regarding the location of listed species and their associated habitats.

Our fish and wildlife location data represents only those occurrences recorded by FWC staff and other affiliated researchers. Please note that our database does not necessarily contain records of all listed species that may occur in a given area. Also, data on certain species, such as gopher tortoises, are not entered into our database on a site-specific basis. **Therefore, one should not assume that an absence of occurrences in our database indicates that species of significance do not occur in the area.**

The Florida Natural Areas Inventory (FNAI) maintains a separate database of listed plant and wildlife species, please contact FNAI directly for specific information on the location of element occurrences within the project area. Because FNAI is funded to provide information to public agencies only, you may be required to pay a fee for this information. County-wide listed species information can be located at their website (<http://www.fnai.org>).

Please credit the Florida Fish and Wildlife Conservation Commission in any publication or presentation of these data. If you have any questions or further requests, please contact me at (850) 488-0588 or [gisrequests@myfwc.com](mailto:gisrequests@myfwc.com).

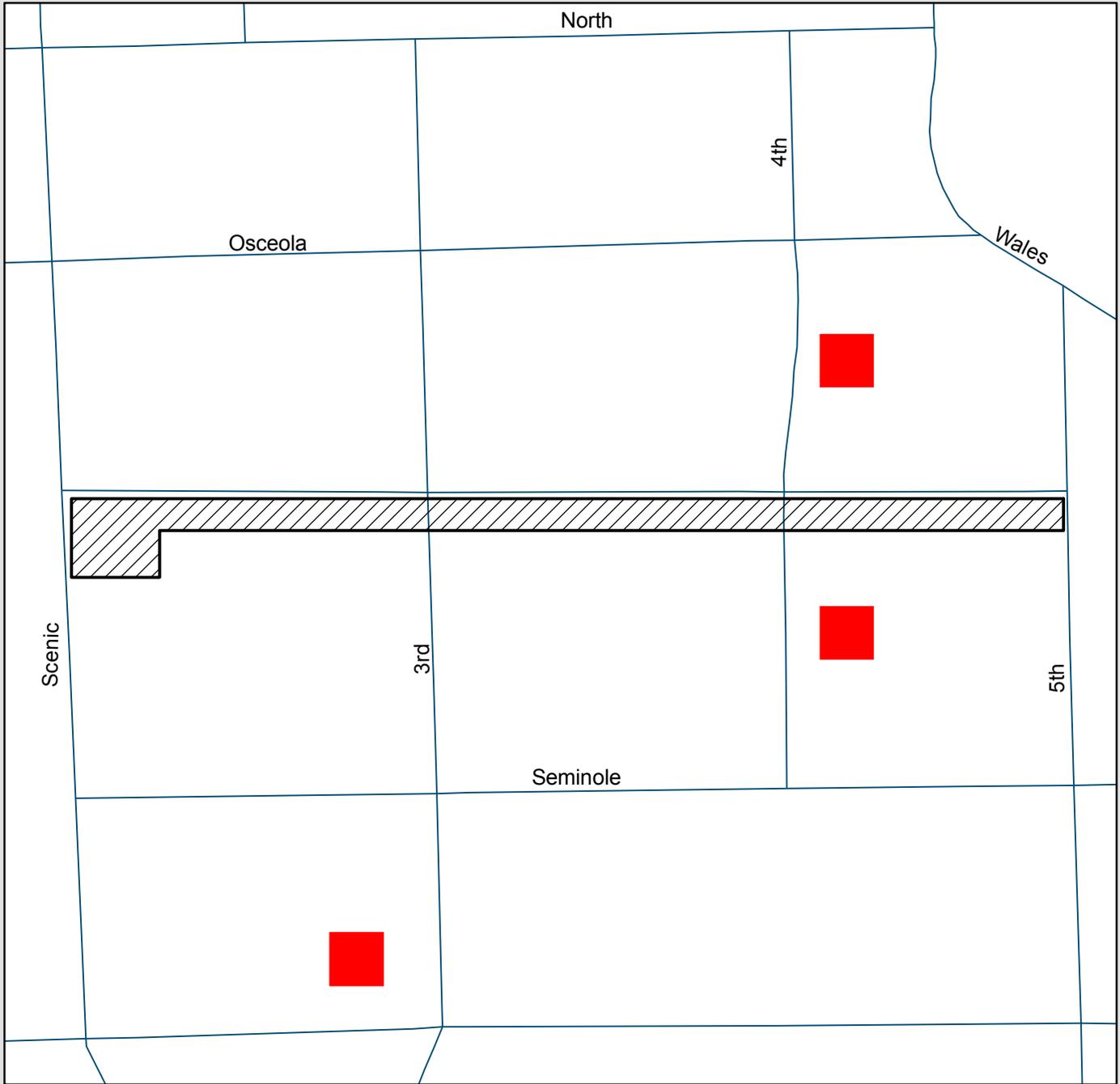
Sincerely,

Jan Stearns  
Staff Assistant

js  
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Enclosures

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# Strategic Habitat Conservation Areas Lake Wales Trailways



Legend:

-  Strategic Habitat Conservation Area
-  County Boundary
-  Project Site

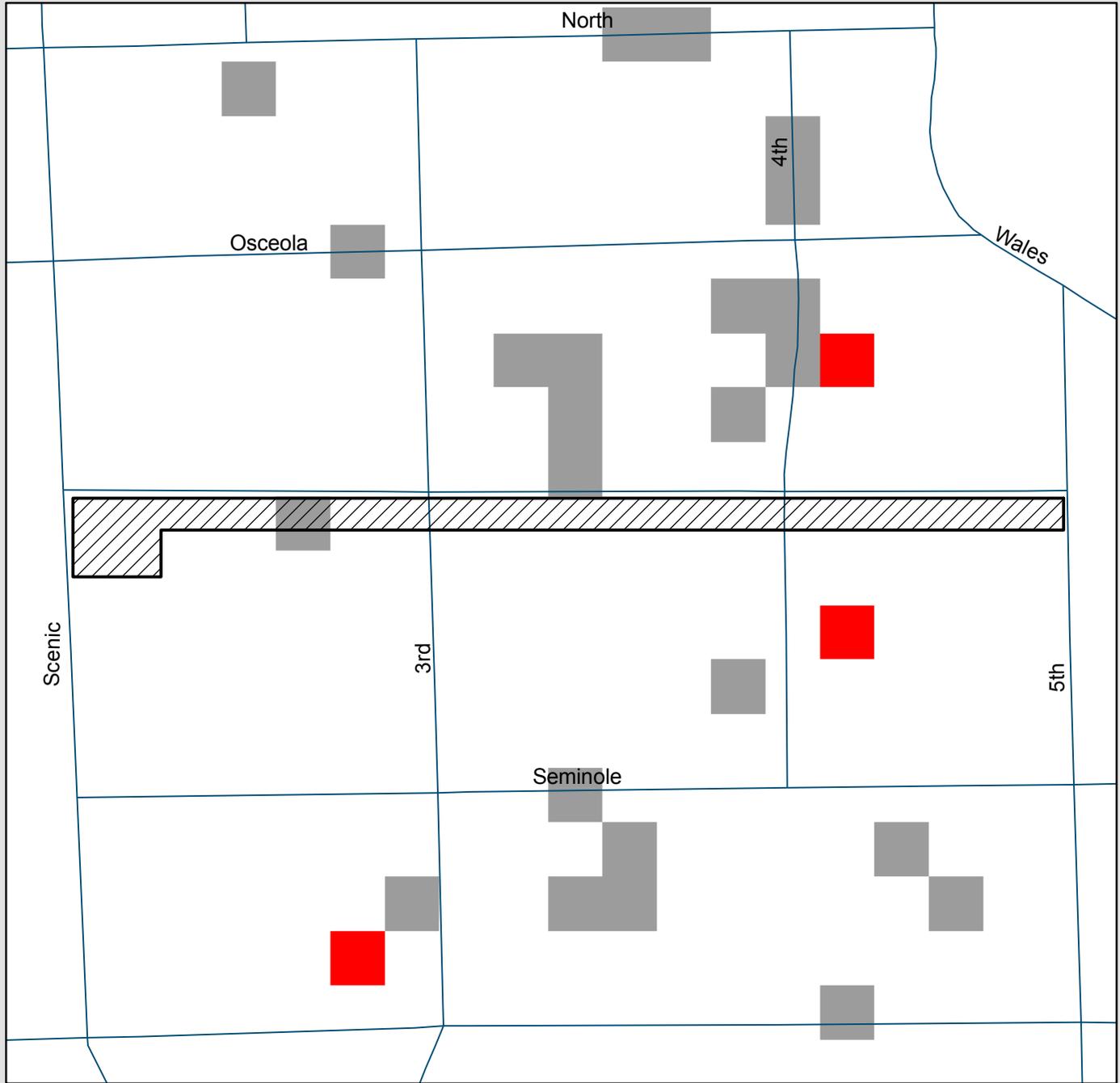


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# Biodiversity Hotspots

## Lake Wales Trailways



**Biodiversity Hotspots**

- 3 - 4 Focal Species Overlap
- 5 - 6 Focal Species Overlap
- 7 - 13 Focal Species Overlap
- County Boundary
- Project Site

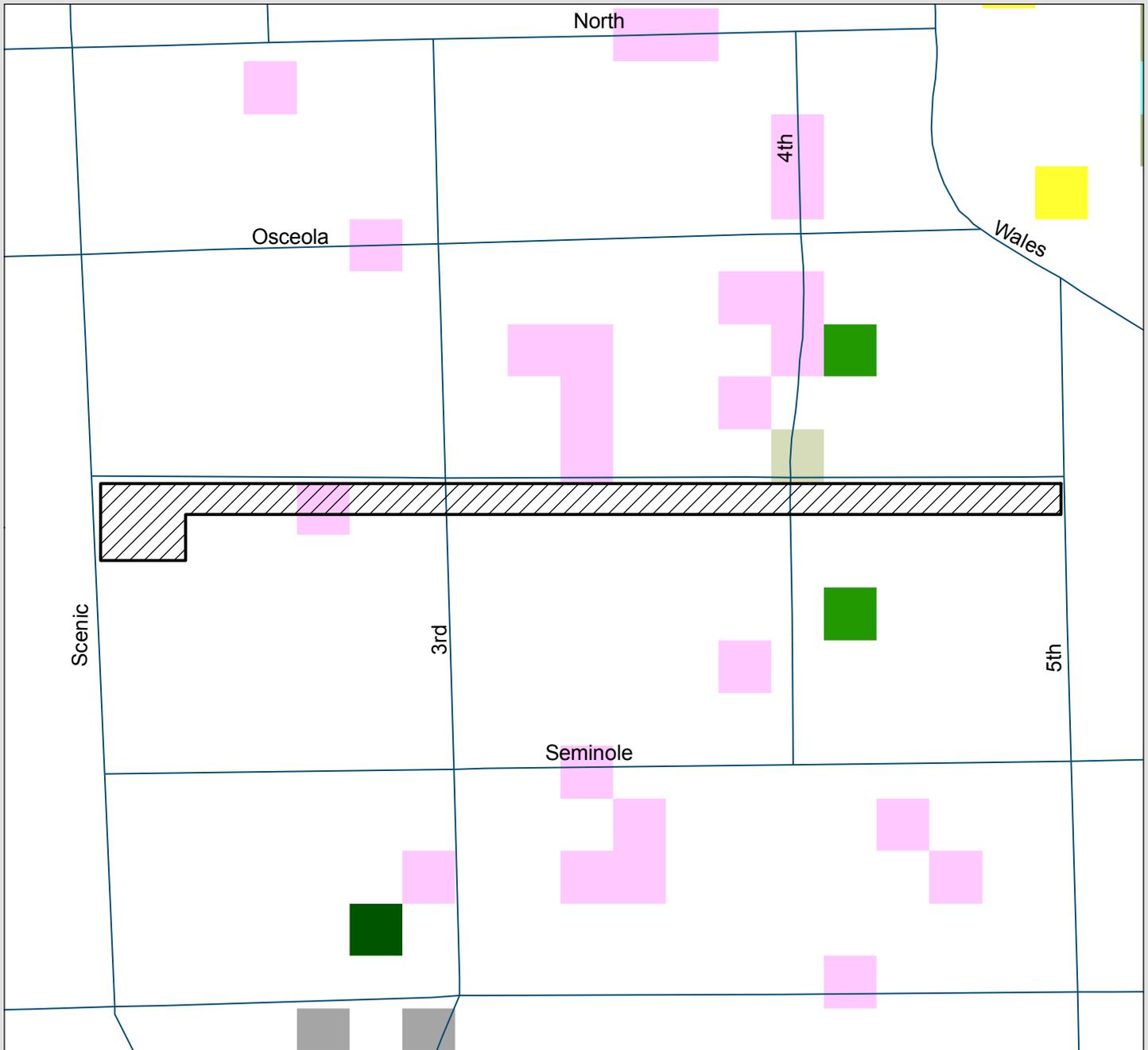


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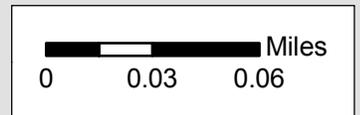
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# Florida Land Cover - 2003

## Lake Wales Trailways



- |                                  |                            |                           |
|----------------------------------|----------------------------|---------------------------|
| Project Site                     | Major Roads                | County Boundary           |
| Coastal Strand                   | Cattail Marsh              | Tidal Flat                |
| Sand/Beach                       | Shrub Swamp                | Open Water                |
| Xeric Oak Scrub                  | Bay Swamp                  | Shrub and Brushland       |
| Sand Pine Scrub                  | Cypress Swamp              | Grassland                 |
| Sandhill                         | Cypress/Pine/Cabbage Palm  | Bare Soil/Clearcut        |
| Dry Prairie                      | Mixed Wetland Forest       | Improved Pasture          |
| Mixed Pine-Hardwood Forest       | Hardwood Swamp             | Unimproved Pasture        |
| Hardwood Hammocks and Forest     | Hydric Hammock             | Other Agriculture         |
| Pinelands                        | Bottomland Hardwood Forest | Citrus                    |
| Cabbage Palm-Live Oak Hammock    | Salt Marsh                 | Exotic Plants             |
| Tropical Hardwood Hammock        | Mangrove Swamp             | High and Low Impact Urban |
| Freshwater Marsh and Wet Prairie | Scrub Mangrove             | Extractive                |
| Sawgrass Marsh                   |                            |                           |



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# APPENDIX F

## Division of Historical Resources Report

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FLORIDA DEPARTMENT OF STATE  
**Kurt S. Browning**  
Secretary of State  
DIVISION OF HISTORICAL RESOURCES

Ms. Jennifer Nanek  
City of Lake Wales  
P. O. Box 1320  
Lake Wales, Florida 33859-1320

May 27, 2009

Re: Request for Land Management Plan Information for Lake Wales Trailway  
Polk County / DHR Project File No. 2009-2677

Dear Ms. Nanek:

In accordance with this agency's responsibilities under Sections 253 and 267, Florida Statutes, we reviewed the information in the Florida Site File to determine whether any historic properties are recorded in the referenced management area, and also to determine the potential for such resources which are presently unrecorded.

Our review indicates that no archaeological sites or historic buildings are recorded in the subject tract. Furthermore, it is the opinion of this agency that there is a low probability of significant, unrecorded sites being located in this tract. However, we note that the western portion of the trail is adjacent to the National Register listed Lake Wales Historic Residential District (8PO5364). Nevertheless, historic property considerations should not be an issue in the management of this property.

Enclosed is a copy of *Management Procedures for Archaeological and Historical Sites and Properties on State-Owned or Controlled Properties* (revised February 2007). This document should be referenced where appropriate in your land management plan, and attached to it.

If you have any questions concerning our comments, please do not hesitate to contact Susan Harp at (850) 245-6333. Thank you for your interest in protecting Florida's historic resources.

Sincerely,

Frederick P. Gaske, Director

Enclosure

500 S. Bronough Street • Tallahassee, FL 32399-0250 • <http://www.flheritage.com>

Director's Office  
(850) 245-6300 • FAX: 245-6436

Archaeological Research  
(850) 245-6444 • FAX: 245-6452

Historic Preservation  
(850) 245-6333 • FAX: 245-6437

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**Management Procedures for Archaeological and Historical Sites and Properties on State-Owned or Controlled Properties**  
(revised February 2007)

**These procedures apply to state agencies, local governments, and non-profits that manage state-owned properties.**

A. General Discussion

Historic resources are both archaeological sites and historic structures. Per Chapter 267, Florida Statutes, *'Historic property' or 'historic resource' means any prehistoric district, site, building, object, or other real or personal property of historical, architectural, or archaeological value, and folklife resources. These properties or resources may include, but are not limited to, monuments, memorials, Indian habitations, ceremonial sites, abandoned settlements, sunken or abandoned ships, engineering works, treasure trove, artifacts, or other objects with intrinsic historical or archaeological value, or any part thereof, relating to the history, government, and culture of the state.'*

B. Agency Responsibilities

Per State Policy relative to historic properties, state agencies of the executive branch must allow the Division of Historical Resources (Division) the opportunity to comment on any undertakings, whether these undertakings directly involve the state agency, i.e., land management responsibilities, or the state agency has indirect jurisdiction, i.e. permitting authority, grants, etc. No state funds should be expended on the undertaking until the Division has the opportunity to review and comment on the project, permit, grant, etc.

State agencies shall preserve the historic resources which are owned or controlled by the agency.

Regarding proposed demolition or substantial alterations of historic properties, consultation with the Division must occur, and alternatives to demolition must be considered.

State agencies must consult with Division to establish a program to location, inventory and evaluate all historic properties under ownership or controlled by the agency.

C. Statutory Authority

Statutory Authority and more in depth information can be found in the following:

**Chapter 253, F.S. – State Lands**

**Chapter 267, F.S. – Historical Resources**

**Chapter 872, F.S. – Offenses Concerning Dead Bodies and Graves**

Other helpful citations and references:

Chapter 1A-32, F.A.C. – Archaeological Research

Chapter 1A-44, F.A.C. – Procedures for Reporting and Determining Jurisdiction Over Unmarked Human Burials

Chapter 1A-46, F.A.C. – Archaeological and Historical Report Standards and Guidelines

*The Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings*

#### D. Management Implementation

**Even though the Division sits on the Acquisition and Restoration Council and approves land management plans, these plans are conceptual. Specific information regarding individual projects must be submitted to the Division for review and recommendations.**

Managers of state lands must coordinate any land clearing or ground disturbing activities with the Division to allow for review and comment on the proposed project. Recommendations may include, but are not limited to: approval of the project as submitted, pre-testing of the project site by a certified archaeological monitor, cultural resource assessment survey by a qualified professional archaeologist, modifications to the proposed project to avoid or mitigate potential adverse effects.

Projects such as additions, exterior alteration, or related new construction regarding historic structures must also be submitted to the Division of Historical Resources for review and comment by the Division's architects. Projects involving structures fifty years of age or older, must be submitted to this agency for a significance determination. In rare cases, structures under fifty years of age may be deemed historically significant. These must be evaluated on a case by case basis.

Adverse impacts to significant sites, either archaeological sites or historic buildings, must be avoided. Furthermore, managers of state property should make preparations for locating and evaluating historic resources, both archaeological sites and historic structures.

#### E. Minimum Review Documentation Requirements

In order to have a proposed project reviewed by the Division, the following information, at a minimum, must be submitted for comments and recommendations.

Project Description – A detailed description of the proposed project including all related activities. For land clearing or ground disturbing activities, the depth and extent of the disturbance, use of heavy equipment, location of lay down yard, etc. For historic structures, specific details regarding rehabilitation, demolition, etc.

Project Location – The exact location of the project indicated on a USGS Quadrangle map, is preferable. A management base map may be acceptable. Aerial photos indicating the exact project area as supplemental information are helpful.

Photographs – Photographs of the project area are always useful. Photographs of structures are required.

Description of Project Area – Note the acreage of the project, describe the present condition of project area, and any past land uses or disturbances.

Description of Structures – Describe the condition and setting of each building within project area if approximately fifty years of age or older.

Recorded Archaeological Sites or Historic Structures – Provide Florida Master Site File numbers for all recorded historic resources within or adjacent to the project area. This information should be in the current management plan; however, it can be obtained by contacting the Florida Master Site File at (850) 245-6440 or Suncom 205-6440.

\* \* \*

Questions relating to the treatment of archaeological and historic resources on state lands should be directed to:

Susan M. Harp  
Historic Preservation Planner  
Division of Historical Resources  
Bureau of Historic Preservation  
Compliance and Review Section  
R. A. Gray Building  
500 South Bronough Street  
Tallahassee, FL 32399-0250

Phone: (850) 245-6333  
Suncom: 205-6333  
Fax: (850) 245-6438

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# APPENDIX G

## Site Photos

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**CSX Property**



Former rail bed at Scenic HWY facing east



Former rail bed facing east

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Overgrowth on former rail bed near 3<sup>rd</sup> Street



Remaining railroad ties

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Old Seaboard RR “No Trespassing” Sign – facing Kissimmee Ave.



No Trespassing Sign at 3<sup>rd</sup> Street

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End of trail at 4<sup>th</sup> Street looking west (where trail will go)



Completed Trail at 4<sup>th</sup> Street facing east to 5<sup>th</sup> Street

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At 5<sup>th</sup> Street facing west (end of property)



At 5<sup>th</sup> Street facing East (City of Lake Wales Property)

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## Other Rails to Trails photos



Phase 2 from Kiwanis Park facing east



East end of the Trail at Buck Moore Rd facing West

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**Adjacent Property**



1920 CSX Building - Trail Head Center/City Public Works Facility  
Facing South – Along Scenic HWY(2<sup>nd</sup> Street/SR17)



Adjacent Commercial business – North across Kissimmee Ave.  
Note railroad ties on ground

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Facing West across Scenic HWY(2<sup>nd</sup> Street/SR 17)  
Adjacent Commercial business



Boys & Girls Club – 1920 Primary School  
Adjacent Recreation Complex at 4<sup>th</sup> Street

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## APPENDIX H

### Ridge Scenic Highway Vision and Concept Plan

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**Ridge Scenic Highway Vision and Concept Plan**



# 1 Ridge Scenic Highway Vision and Concept Plan

## 2 Corridor Vision

3 The Corridor Advocacy Group’s vision for the  
 4 Ridge Scenic Highway is stated below. The  
 5 vision statement is phrased from a future  
 6 perspective, looking back at the Corridor  
 7 Management Entity’s accomplishments.

8  
 9 *The Ridge Scenic Highway contains a wide*  
 10 *variety of natural, scenic, historical, cultural,*  
 11 *and recreational resources of regional and*  
 12 *national significance along the Lake Wales*  
 13 *Ridge. The corridor is rich in archaeological*  
 14 *sites, cultural enclaves, tourist destinations,*  
 15 *historic commercial and residential districts*  
 16 *(some listed on the National Register), farming*  
 17 *communities, national landmarks, conservation*  
 18 *lands, migratory bird preserves, and green*  
 19 *spaces. Its rolling hills and valleys, pristine*  
 20 *waters, and high sandy ridge have promoted*  
 21 *healthy living and scenic vistas for past*  
 22 *generations. The Ridge Scenic Highway*  
 23 *Corridor Management Entity has worked with*  
 24 *local, state, and federal governments, citizen*  
 25 *groups, and non-profit organizations. These*  
 26 *continuing efforts are intended to protect and*  
 27 *maintain the unique geology, environmental*  
 28 *lands, and habitats and ensure viable citrus and*  
 29 *agricultural industries, therefore preserving a*  
 30 *natural, scenic, historic, and recreational way of*  
 31 *life. Through preservation of resources,*  
 32 *interpretive signage, and sufficient advertising,*  
 33 *the Ridge Scenic Highway continues to educate*  
 34 *residents and visitors about the unique Florida*  
 35 *Story and promote preservation for future*  
 36 *generations.*

## 37 Goals and Strategies

39 To guide the Corridor Management Entity’s  
 40 focus toward creating its vision for the Ridge  
 41 Scenic Highway, the group created a set of  
 42 Goals and Strategies. These Goals and Strategies  
 43 directly support and further the Corridor  
 44 Visions. There are six categories of goals and  
 45 their supporting strategies.

## 47 Community Support and Participation

48  
 49 Goal 1: Work closely with local governments,  
 50 entities, and communities to coordinate and  
 51 maximize our efforts.

- 52 ■ Strategy 1.1: Be available and receptive to  
 53 community input to foster a spirit of  
 54 cooperation.
- 55 ■ Strategy 1.2: Review existing projects and  
 56 participate in future planning with  
 57 community leaders to synthesize mutual  
 58 goals.

60 Goal 2: Receive input from residents and  
 61 decision makers

- 62 ■ Strategy 2.1: Develop and implement a  
 63 continuous public awareness program  
 64 among the community (the Community  
 65 Participation Program).
- 66 ■ Strategy 2.2: Inform public of contact  
 67 information to allow for open  
 68 communication.
- 69 ■ Strategy 2.3: Update the Corridor  
 70 Management Plan every 5 years to allow for  
 71 revisions of the document.

## 73 Resource Protection, Maintenance, Preservation 74 and Enhancement

76 Goal 3: Support and expand methods for  
 77 resource protection.

- 78 ■ Strategy 3.1: Support and expand existing  
 79 conservation efforts.
- 80 ■ Strategy 3.2: Support and expand existing  
 81 recreational efforts.
- 82 ■ Strategy 3.3: Expand resources for  
 83 equestrian community.
- 84 ■ Strategy 3.4: Provide access to intrinsic  
 85 resources by biking, hiking, walking,  
 86 canoeing, and horseback riding.
- 87 ■ Strategy 3.5: Sponsor an adopt-a-highway  
 88 and other litter control programs along SR  
 89 17.

91 Goal 4: Continue to encourage and coordinate  
 92 the acquisition and management  
 93 environmentally sensitive lands.

- 94 ■ Strategy 4.1: Work with local, county, and  
 95 state agencies.

- 1   ▪ Strategy 4.2: Coordinate and encourage the
- 2   purchase of land development rights on
- 3   environmentally sensitive lands.
- 4   ▪ Strategy 4.3: Develop innovative ways to
- 5   protect environmentally sensitive lands.
- 6
- 7 Goal 5: Support and promote local culture.
- 8   ▪ Strategy 5.1: Support local celebrations/
- 9   holidays.
- 10   ▪ Strategy 5.2: Pursue grants to fund local
- 11   celebrations, festivals and other cultural
- 12   events.
- 13   ▪ Strategy 5.3: Develop a clearinghouse or
- 14   coordinating calendar for cultural events.
- 15   ▪ Strategy 5.4: Support local cultural
- 16   organizations.
- 17   ▪ Strategy 5.6: Provide information of
- 18   cultural resources in multiple languages.
- 19
- 20 Goal 6: Preserve scenic views from SR 17.
- 21   ▪ Strategy 6.1: Coordinate the purchase of
- 22   land development rights within key
- 23   viewsheds.
- 24   ▪ Strategy 6.2: Encourage new development to
- 25   include roadside buffers and encourage local
- 26   governments to require them for new
- 27   development.
- 28   ▪ Strategy 6.3: Encourage local governments
- 29   to provide incentives for clustering to
- 30   preserve key viewsheds.
- 31   ▪ Strategy 6.4: Assure that lighting, signage,
- 32   landscaping and hardscape reflect the
- 33   historic character of the corridor while
- 34   conforming with standards presented in the
- 35   Manual on Uniform Traffic Control
- 36   Devices, FDOT guidelines, and other
- 37   engineering standards.
- 38
- 39 *Transportation and Safety*
- 40
- 41 Goal 7: Promote and reinforce safe vehicular
- 42 travel speeds.
- 43   ▪ Strategy 7.1: Promote the performance of a
- 44   safety study along SR 17. The study should
- 45   evaluate and make recommendations on
- 46   high accident locations, the length and
- 47   location of passing zones, and the
- 48   appropriate posted speed for the road. The
- 49   appropriate posted speed in the towns and
- 50   rural areas should be evaluated based on
- 51   accident information, the geometric

- 52   characteristics of the roadway and the mix
- 53   of uses expected to use the right-of-way in
- 54   different areas.
- 55   ▪ Strategy 7.2: Implement the
- 56   recommendations of the traffic study in
- 57   accordance with the Corridor Vision.
- 58   ▪ Strategy 7.3: Within incorporated and
- 59   unincorporated communities, lower posted
- 60   speed to promote safety for motorists,
- 61   pedestrians, bicyclists and other users of the
- 62   road.
- 63   ▪ Strategy 7.4: Urge local law enforcement to
- 64   implement posted speed limit.
- 65
- 66 Goal 8: Promote non-vehicular modes of travel.
- 67   ▪ Strategy 8.1: Construct safe and convenient
- 68   multi-use facilities along and parallel to SR
- 69   17 where feasible (e.g. bicycling, hiking,
- 70   and equestrian).
- 71   ▪ Strategy 8.2: Develop and coordinate
- 72   implementation of a plan for sidewalk
- 73   construction and enhancements in
- 74   incorporated and unincorporated
- 75   communities.
- 76
- 77 *Education and Corridor Story*
- 78
- 79 Goal 9: Educate residents and decision makers
- 80 about the Ridge Scenic Highway Vision, Goals
- 81 and Strategies, and Action Plan.
- 82   ▪ Strategy 9.1: Communicate ideas, activities,
- 83   and events through media outreach.
- 84   ▪ Strategy 9.2: Develop standardized
- 85   presentation on the Ridge Scenic Highway,
- 86   (e.g. interactive website, video, handouts,
- 87   brochures, others means as needed).
- 88   ▪ Strategy 9.3: Present and promote our
- 89   information, programs, and materials to non-
- 90   profit, business, and community groups.
- 91   ▪ Strategy 9.4: Include government officials
- 92   (city and county) on CME mailing list.
- 93   ▪ Strategy 9.5: Publicize and invite public to
- 94   CME meetings and events.
- 95   ▪ Strategy 9.6: Sponsor a speakers bureau.
- 96
- 97 Goal 10: Tell the Corridor Story to inform and
- 98 educate travelers about the multiple assets along
- 99 the corridor..
- 100   ▪ Strategy 10.1: Develop a wayfinding
- 101   program.

- 1 ■ Strategy 10.2: Develop pamphlets and
- 2 brochures to guide the traveler along the
- 3 corridor, including local culture and
- 4 ecological information.
- 5 ■ Strategy 10.3: Locate, establish, and staff an
- 6 Interpretive/Multi-language Center for the
- 7 corridor.
- 8 ■ Strategy 10.4: Provide additional pull-off
- 9 areas.
- 10 ■ Strategy 10.5: Develop interpretive signs at
- 11 pull-off and other locations along the
- 12 corridor.
- 13 ■ Strategy 10.6: Design and construct
- 14 gateways for the corridor.
- 15 ■ Strategy 10.7: Develop an interactive web
- 16 site with links to sites, attractions and events
- 17 along the corridor.
- 18 ■ Strategy 10.8: Sponsor events establish a
- 19 wide advertisement base.
- 20 ■ Strategy 10.9: Promote tourism through
- 21 cooperative efforts with groups such as
- 22 AAA, Visit Florida, Polk County
- 23 Convention and Visitors Bureau, Keep
- 24 Florida Beautiful, etc.
- 25 ■ Strategy 10.10: Develop, produce, and sell
- 26 “The Ridge Scenic Highway” t-shirt and
- 27 other marketing items.

28  
29 *Sustainable Agriculture and Ecotourism*

- 30
- 31 Goal 11: Protect the commercial base of cattle
- 32 and citrus industry.
- 33 ■ Strategy 11.1: Develop strong relationships
- 34 with the agricultural industry.
- 35 ■ Strategy 11.2: Work with the county and
- 36 involved cities to maintain land in
- 37 agricultural use.
- 38 ■ Strategy 11.3: Develop partnerships with
- 39 representatives of agricultural industries or
- 40 groups.
- 41 ■ Strategy 11.4: Participate in lobbying
- 42 efforts.
- 43 ■ Strategy 11.5: Develop innovative ways to
- 44 protect cattle and citrus industry.
- 45 ■ Strategy 11.6: Promote incentives for
- 46 alternative family farming businesses.
- 47
- 48 Goal 12: Develop nature-based and heritage-
- 49 based tourism.
- 50 ■ Strategy 12.1: Host special events.

- 51 ■ Strategy 12.2: Support historical and
- 52 cultural events.
- 53 ■ Strategy 12.3: Work with tourism and tour
- 54 groups, such as AAA, Visit Florida, Polk
- 55 County Convention and Visitors Bureau,
- 56 Keep Florida Beautiful, etc.
- 57

58 Goal 13: Promote the Ridge Scenic Highway as

59 an international resource for agricultural and

60 ecological research.

- 61 ■ Strategy 13.1: Create interactive website
- 62 documenting the unique agricultural and
- 63 ecological assets of the region.
- 64

65 *Administration*

66

67 Goal 14: To establish and maintain a Corridor

68 Management Entity.

- 69 ■ Strategy 14.1: Form non-profit organization
- 70 with 501(c)3 status.
- 71 ■ Strategy 14.2: Establish P.O. Box for CME
- 72 correspondence.
- 73 ■ Strategy 14.3: Address and complete
- 74 necessary operational functions and tasks
- 75 such as establishing and maintaining mailing
- 76 lists, CME logo, etc.
- 77 ■ Strategy 14.4: Establish representation for
- 78 CME from incorporated communities,
- 79 unincorporated communities, the County,
- 80 and five At-Large positions (Agriculture,
- 81 Tourism, Cultural/Historic, Commercial/
- 82 Developers, Environmental).
- 83 ■ Strategy 14.5: Convene annual meetings, as
- 84 specified in the CME Bylaws.
- 85 ■ Strategy 14.6: Regularly review and update
- 86 the Short Term Action Items.
- 87

88 **Concept Plan**

89 The Concept Plan is visual representation of the

90 Corridor Vision and is a preliminary physical

91 summary of the Action Plan. It provides a

92 palette for design. All sketches are preliminary

93 and in draft only. They provide a structure for

94 future design work and will be refined during

95 the implementation phase. The images of the

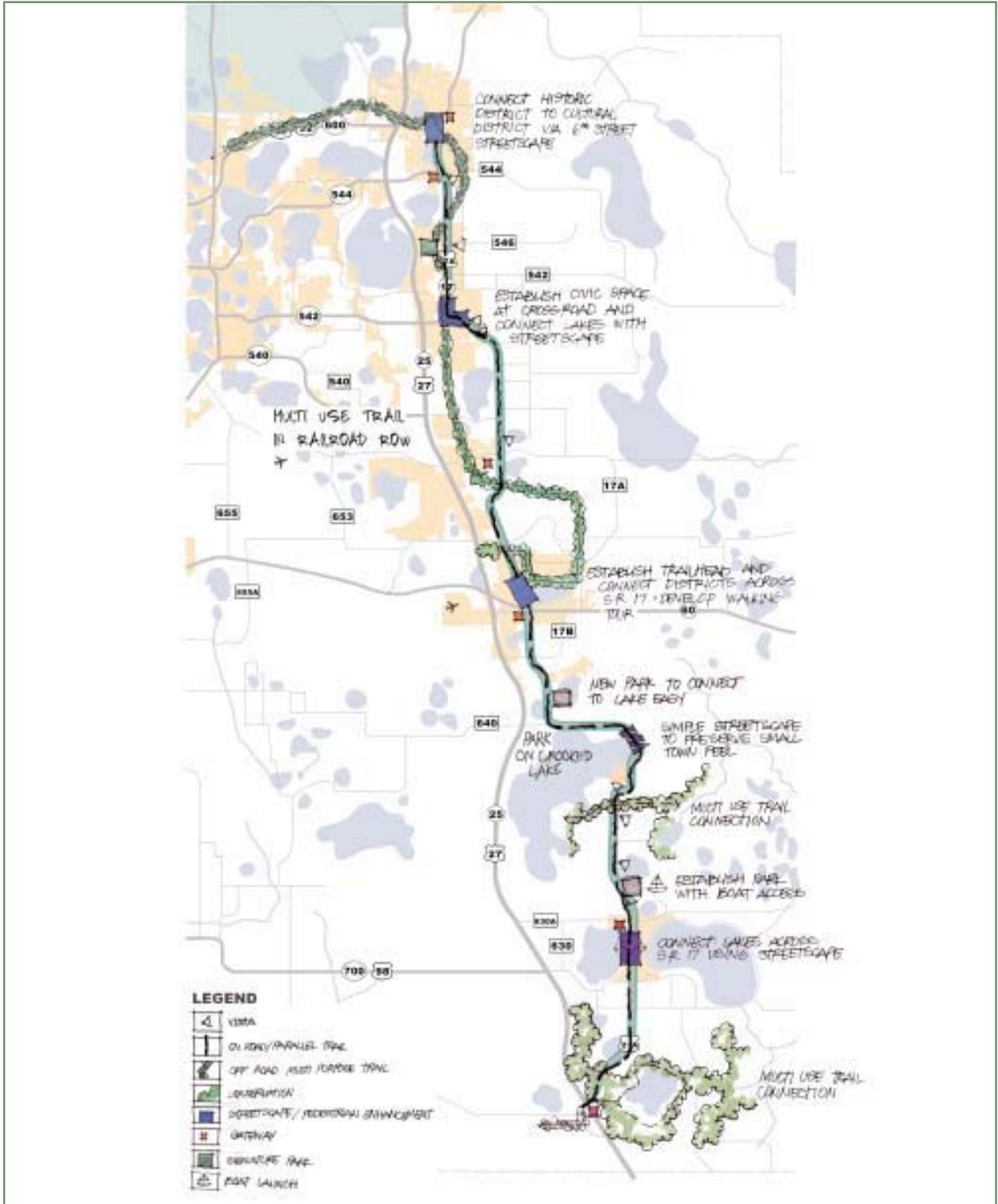
96 Concept Plan were created during the Design

97 Workshop, June 21-24, 2003. The images were

98 inspired and refined by the members of the

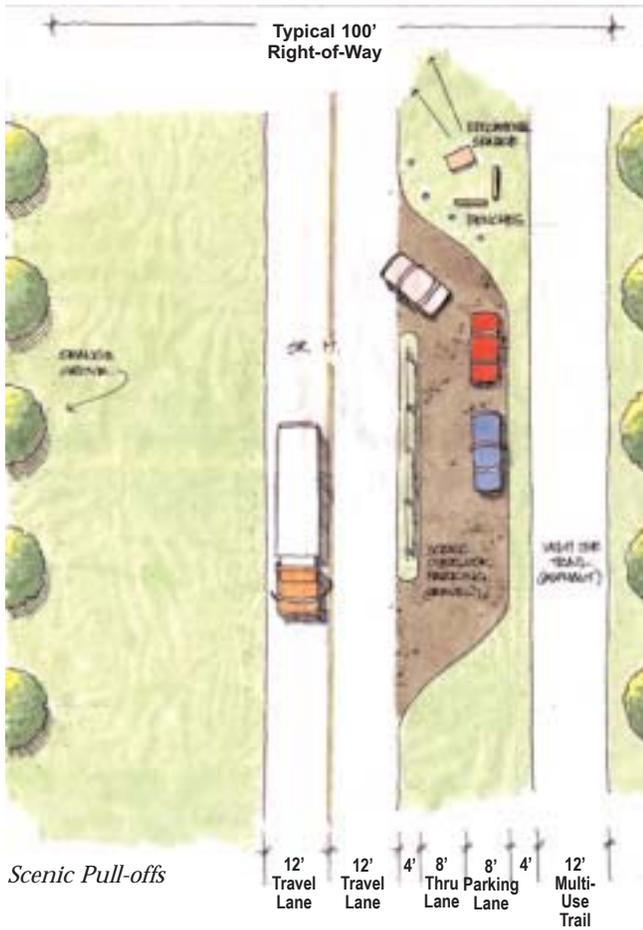
99 Corridor Advocacy Group and other corridor

100 residents that participate in the open houses.



Concept Map

Rural Areas



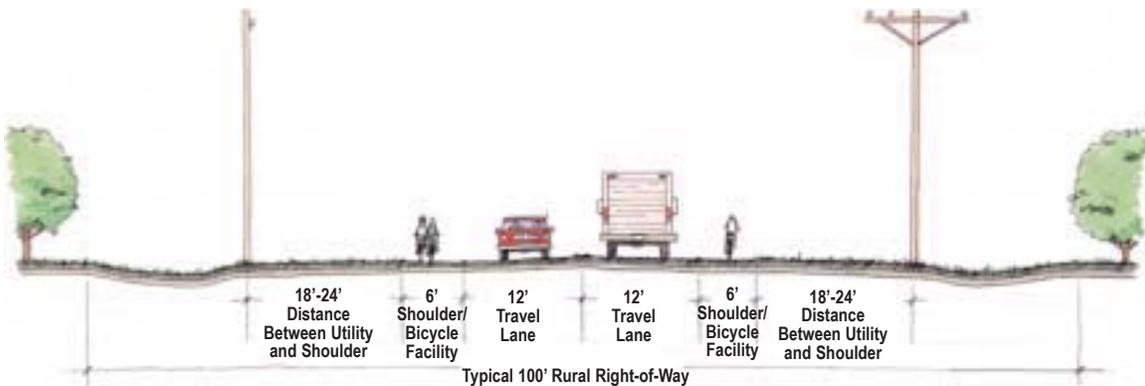
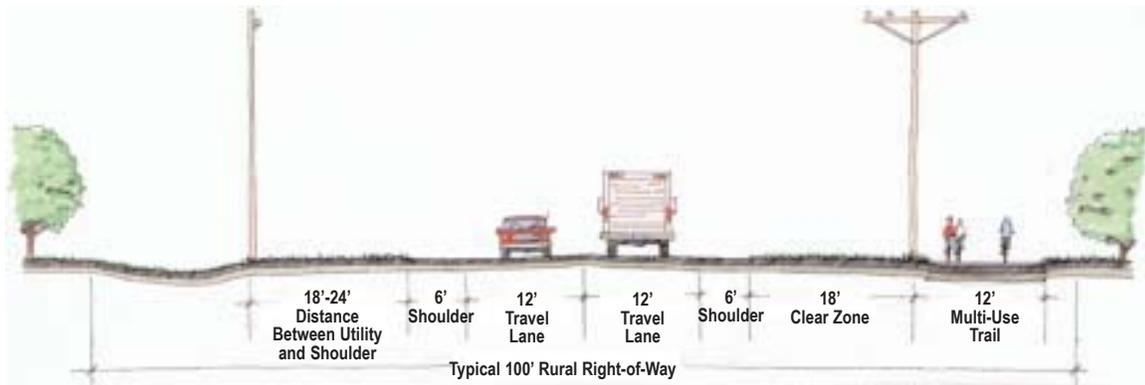
Scenic Pull-offs



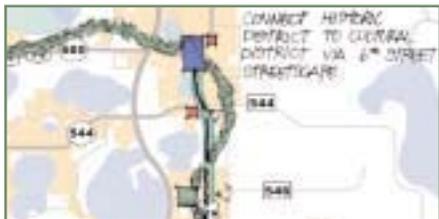
Scenic Pull-off, Lake Moody



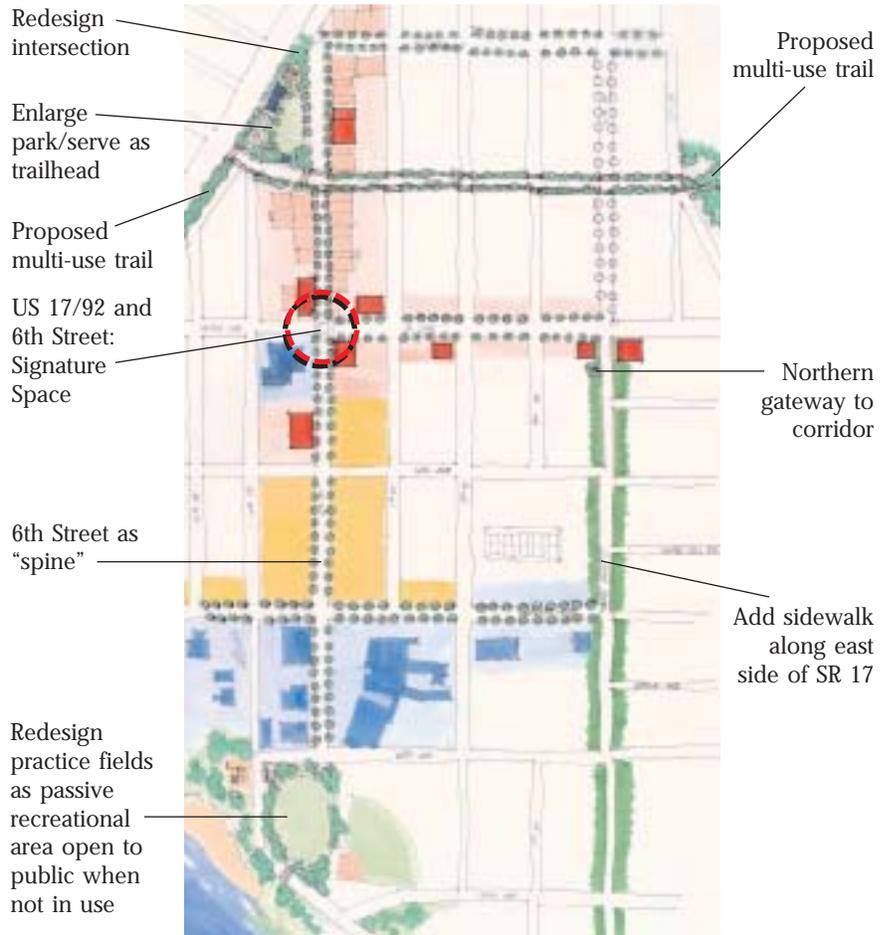
Park at Lake Easy



Alternative bicycle facilities in ROW



Concept Map



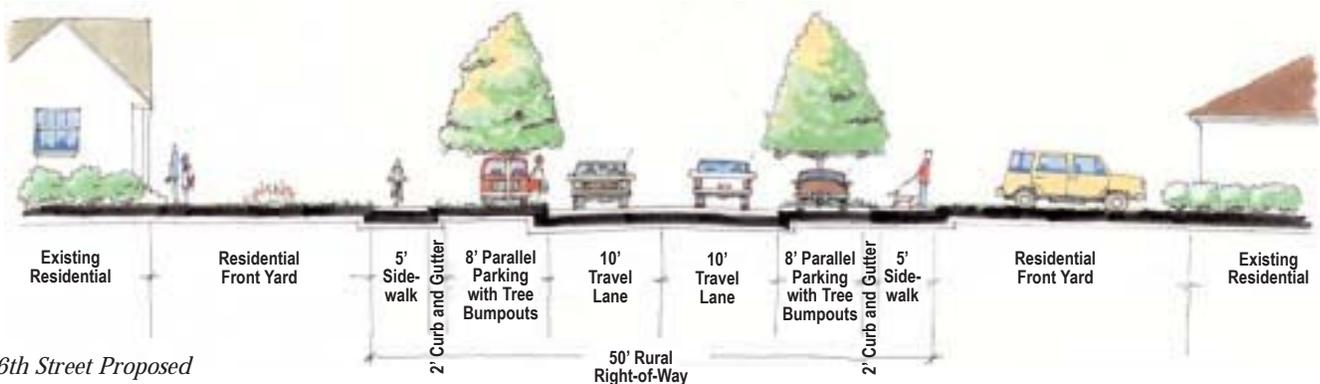
Haines City Concept Plan

**Proposed 6th Street**

- 10 ft vehicular travel lanes
- Define parking
- Landscaped bulbouts in parking lane
- Continuous sidewalk
- Decorative lighting



6th Street Existing



6th Street Proposed

Haines City and Lake Hamilton



Concept Map



**US 17/92 and 6th Street Signature Space, Haines City**

- Redevelop buildings on corners to address the street
- Decorative paving for pedestrian crossings
- Bulbouts at intersections
- Continue landscaping/lighting/streetscaping currently provided north of 17/92 south on 6th Street
- Banners/signage



**Lake Hamilton**

- Redesign existing park to include trailhead/interpretive signage
- Provide scenic view area between SR 17 and frontage road

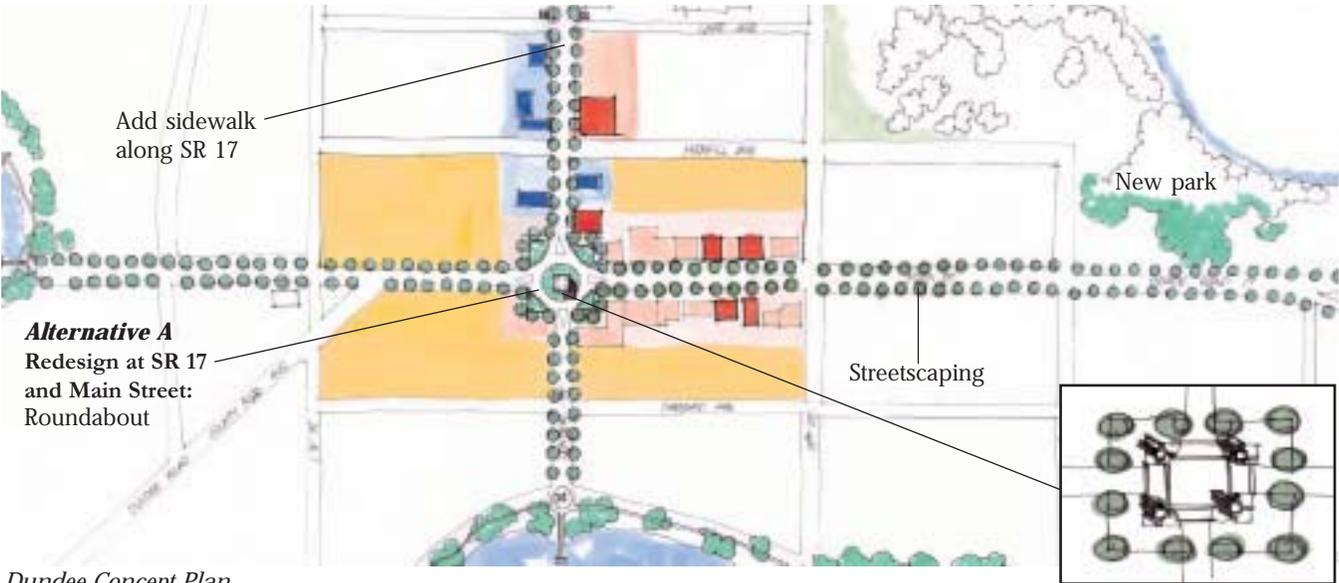
Dundee and Lake of the Hills



Concept Map



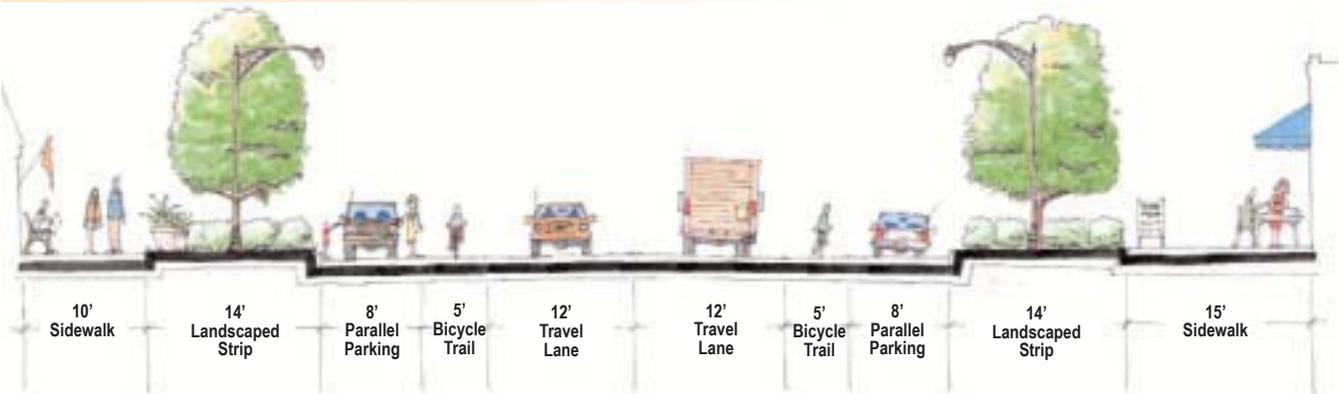
SR 17 (Main Street), existing through Dundee



Dundee Concept Plan

- Proposed SR 17**
- Restriping to narrow vehicular travel lanes and introduce bicycle lane
  - Decorative lighting
  - Tree canopy/landscaping within existing lawn area

- Alternative B**  
 Redesign at SR 17 and Main Street: Maintain traffic signals, introduce pedestrian scale arches over sidewalk area



Proposed enhancements to SR 17 (Main Street) through Dundee.

Lake Wales



Concept Map



**SR 17 and Park Avenue Signature Space**

- Redevelop parking on southeast corner
- Special pavement treatment of pedestrian crossing
- Passive urban park on northeast corner
- Landscaping along Park Avenue
- Decorative lighting along Park Avenue

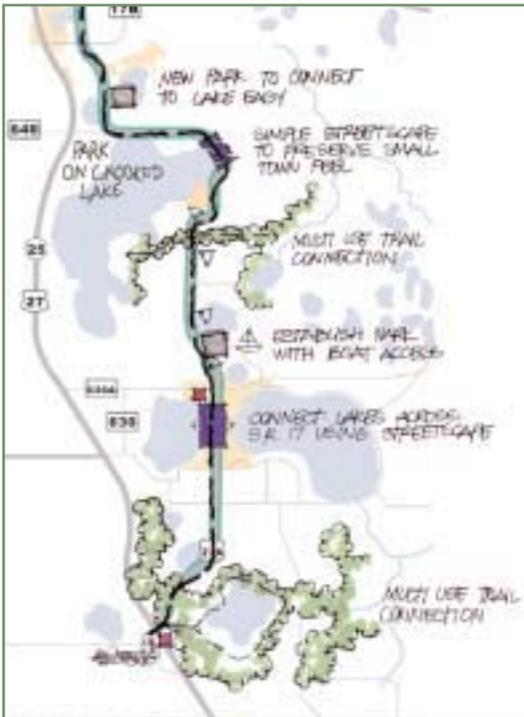


Rails to Trails crossing of SR 17 north of Seminole Ave.



Lake Wales Concept Plan

Village of Highland Park, Babson Park, Hillcrest Heights and Frostproof

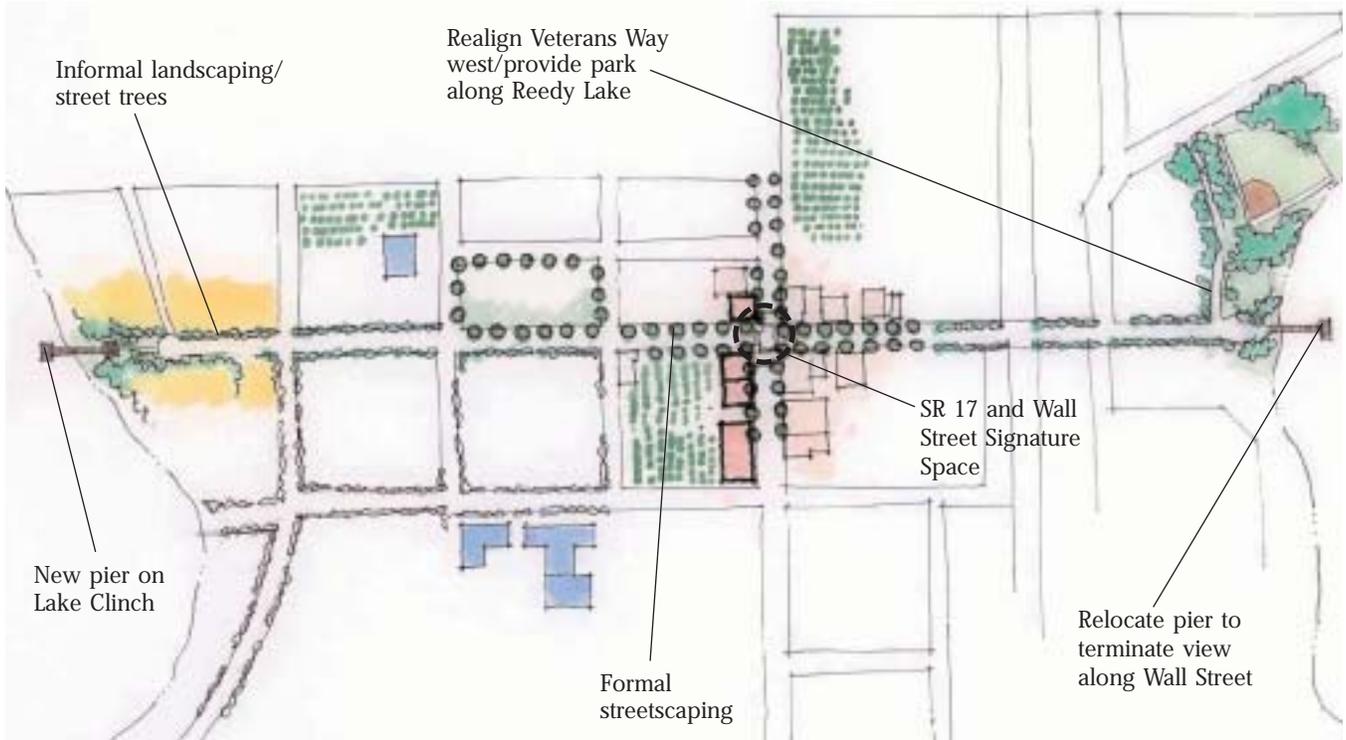


Concept Map



**SR 17 and Wall Street Signature Space**

- Redevelop northwest and southwest corner of SR 17 and Wall Street
- Special pavement treatment of pedestrian crossing of SR 17 and Wall Street.
- Landscaped bulbouts



Frostproof Concept Plan

Comprehensive Signage and Wayfinding Package

Overview of Elements of Comprehensive Signage and Wayfinding Package



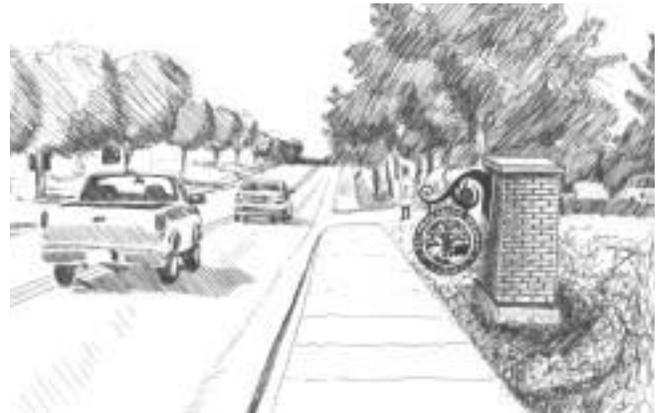
- Gateway
- Wayfinding/directional
- Street signage
- Trailblazer
- Educational
- Other
  - Maps/tours
  - Brochure



Gateways - Examples



South Gateway, north of US 17/92



North Gateway, Haines City, south of US 17/92



Gateway at Chalet Suzanne Road

Wayfinding/Directional

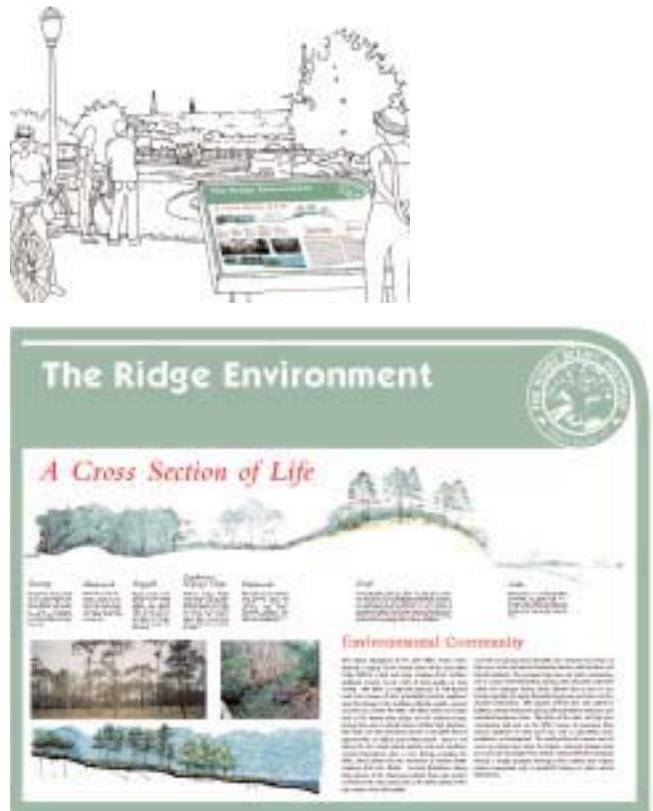


*Note:* Mile markers could be used along the corridor. This unique feature would facilitate advertising of one or multiple sites, organizing self-led tours and directional information.

Street Signs/Trailblazing



Educational



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# APPENDIX I

## Contamination Mitigation Guideline Memorandum Environmental Assessments I & II

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## MEMORANDUM

DATE: April 18, 2006

TO: Bonnie Malloy, Closing Agent, Bureau of Land Acquisition

FROM: Cindy Radford, Land Administration Coordinator, Office of Greenways & Trails

RE: Lake Wales Trailways / CSX parcel

---

The Office of Greenways and Trails (OGT) will be the interim manager of Lake Wales Trailways project and the City of Lake Wales will serve as the long-term managers of the property.

As it pertains to the results of the environmental site assessment performed on the property, in accordance with the recommendations provided by WRS & DEP's Bureau of Waste Cleanup, OGT and the City of Lake Wales, agree with the guidelines set below. OGT will ensure that these requirements are addressed in the management plan that the City is required to provide to DEP within 12 months after the closing date. Mark Stuckey, Program & Technical Support Section, Bureau of Waste Cleanup recommended the following:

Construction of a concrete or asphalt walkway could serve as an engineering control to address direct exposure to soil along portions of the proposed trail near Lake Wales where contamination above applicable criteria was identified. A width of 12 feet is recommended, with narrower widths appropriate based on delineation of arsenic and/or PAHs above Soil Cleanup Target Levels (SCTLs). No engineering control is required along portions of the proposed trail where concentrations of arsenic or PAHs are not above SCTLs. So, to answer your question, soil excavation is not required along trail segments that are paved within the recommended source removal areas depicted on Figure 5 in the Phase II ESA report. However, contaminated soil in the trail shoulder area off the paved surface will need removal as proposed, or covered with two feet of clean fill out to the edge of dense native vegetation. The fill-covered strips should be vegetated with permanent vegetation that requires little or no maintenance and produces not flowers or berries that would encourage trail users to leave the paved trail. This risk based alternative to removal of soil with constituents above applicable criteria requires that the institutional control used to restrict this property to recreational/park use only, which is usually a deed restriction, include assurance of proper maintenance for engineering controls as long as needed. The institutional control would also need to address possible exposure to, and disposal of, contaminated soil when disturbed during future site improvements or other projects.

With regard to possible leachability of contaminants to groundwater, both arsenic and PAHs showed greatly reduced concentrations from the shallow to deeper samples at all multi-level sampling locations. Placement of an impervious surface above contaminated soil should arrest downward migration of arsenic and PAHs to groundwater beneath the trail, and accomplish the same goal as soil removal with regard to leachability. As recommended in the Phase II ESA report, a shallow groundwater sample should be taken at the SS-17 soil sampling location and analyzed for PAHs. It is also recommended that a shallow groundwater sample for arsenic be taken at the SS-5 location. If results for both samples show

concentrations below Groundwater Cleanup Target Levels (GCTLs), no further action for groundwater is needed. If arsenic or PAHs are detected above GCTLs, then further evaluation in accordance with Chapter 62-780.680(2) or (3), F.A.C. is recommended to achieve an acceptable risk based closure for groundwater impacts.

On April 3, 2006 the report was issued on the additional testing that was conducted as suggested for locations SS-17 and SS-5 and were well below the GCTL's. Further testing was not recommended.

/cr

**PHASE I  
ENVIRONMENTAL SITE ASSESSMENT**

**CSX CORPORATION PROPERTY  
OFFICE OF GREENWAYS AND TRAILS (OGT)  
LAKE WALES TRAILWAYS PROJECT  
SECTION 02, TOWNSHIP 30 SOUTH, RANGE 27 EAST  
LAKE WALES, POLK COUNTY, FLORIDA  
FDEP CONTRACT NUMBER: PL078, TASK NO: 003  
WRS PROJECT NO.: 305001**

Submitted to:

Ms. Lynda Godfrey and Ms. Donna Ayres  
Bureau of Land Acquisition  
Florida Department of Environmental Protection  
3900 Commonwealth Boulevard, MS 115  
Tallahassee, Florida 32399-3000  
Phone: (850) 245-2669  
Fax: (850) 245-2719

Submitted by:

WRS Infrastructure & Environment, Inc.  
625 East Tennessee Street, Suite 100  
Tallahassee, Florida 32308  
Phone: (850) 531-9860  
Fax: (850) 531-9866

April 1, 2005

**PHASE I  
ENVIRONMENTAL SITE ASSESSMENT**

**CSX CORPORATION PROPERTY  
OFFICE OF GREENWAYS AND TRAILS (OGT)  
LAKE WALES TRAILWAYS PROJECT  
SECTION 02, TOWNSHIP 30 SOUTH, RANGE 27 EAST  
LAKE WALES, POLK COUNTY, FLORIDA  
FDEP CONTRACT NUMBER: PL078, TASK NO: 003  
WRS PROJECT NO.: 305001**

WRS Infrastructure & Environment, Inc. certifies the authenticity of this report to the Board of Trustees of the Internal Improvement Trust Fund of the State of Florida and provides the following: a) an environmental site assessment was performed on the Subject Property during March 9, 2005; b) the environmental assessment meets the requirements of the Florida Department of Environmental Protection (FDEP), Division of State Lands (DSL); c) the accuracy, correctness, and completeness of the environmental assessment is provided with the knowledge of the Comprehensive Environmental Response Compensation and Liability Act as set forth in 42 U.S.C. Section 9601 et seq., as amended (CERCLA); and d) the Board of Trustees of the Internal Improvement Trust Fund of the State of Florida is entitled to rely on the information set forth in this environmental assessment.

Prepared by:

\_\_\_\_\_  
T. Ryan Smith  
Staff Scientist

Date: \_\_\_\_\_

Reviewed by:

\_\_\_\_\_  
Wm. Gordon Dean, P. E.  
State of Florida No. 40950

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- A. Pre-Acquisition Site Assessment Checklist
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## SECTION 1.0 INTRODUCTION

The Florida Department of Environmental Protection (FDEP) tasked WRS Infrastructure & Environment, Inc. (WRS) with performance of a Phase I Environmental Site Assessment (ESA) for the CSX Corporation Property (Subject Property). The purpose of this assessment was to collect and analyze sufficient data to identify recognized environmental conditions and, if necessary, provide a basis for Phase II ESA investigation. The considered land parcel is to be purchased by the FDEP, Division of State Lands (DSL), for the OGT Lake Wales Trailways Project. This report presents data collected during the Phase I ESA and presents, if warranted, any recommendations for additional Phase II ESA activity.

A Phase I ESA is an investigation into the history of activity and land uses of a subject property and surrounding area. A Phase I ESA typically consists of: (1) a review of historical sources for evidence of prior land uses that could result in soil and/or ground water contamination, (2) a review of regulatory agencies' enforcement and permitting records for indications of prior contamination at the Subject Property and/or surrounding properties, (3) a 50-year title search, (4) a review of current and historical aerial photographs of the site and surrounding area, and (5) a site investigation and, if available, field interviews with people possessing knowledge of the area and prior land usage. A Pre-Acquisition Checklist outlining specific actions conducted during performance of this Phase I ESA is included as Appendix A.

WRS has completed item numbers 1, 2, 3, 4, and 5. The conclusions regarding the environmental integrity of this site are based on the observations and information gathered during this study and in no way represent a warranty that environmental conditions beyond the scope of this Phase I ESA do not exist. WRS accepts no liability for subsurface anomalies, which can only be identified through Phase II ESA activities. Radon, lead-based paint, and asbestos surveys were not performed as no habitable structures exist on site.

## **SECTION 2.0      PHYSICAL ENVIRONMENT AND ECOLOGY**

### **2.1      Subject Property Location**

The Subject Property consists of one rectangular shaped parcel of land totaling approximately 2.77 acres in size. The Subject Property is located within Section 02, Township 30 South, Range 27 East, as located on the Lake Wales, Florida, United States Geological Survey (USGS) 7.5 minute topographic quadrangle map (Figure 1). The Subject Property is described in the legal description provided by the FDEP, which is included in Appendix B.

### **2.2      Area Physiography**

Polk County is located in the Central, or Mid-Peninsular Zone of Florida (Scott, 1992). Polk County is located in the Central Highlands physiographic province (Soil Conservation Survey, SCS, 1990). Eight physiographic subprovinces within the Central Highlands have been identified in Polk County (SCS, 1990). These eight physiographic subprovinces are the Bombing Range Ridge, Lake Henry Ridge, Lake Uplands, Lakeland Ridge, Lake Wales Ridge, Osceola Plain, Western Valley, and the Polk Upland (SCS, 1990).

The Subject Property is located in the Polk Upland physiographic subprovince. The elevation of the Polk Upland generally ranges between 100 to 130 feet above mean sea level (AMSL). It is higher on the ridges. In the northern part of the county, the Polk Upland merges with the Lake upland. The two uplands do not have a distinct topographic distinction; therefore, the boundary is drawn arbitrarily. The Polk Upland is bordered by the Gulf Coastal Lowlands and the Western Valley on the west and north, the DeSoto Plain on the south, and by the Lake Wales Ridge on the east.

The Subject Property is characterized by low, flat topography, with a thin veneer of relatively poorly drained organic-rich carbonate sands and silts overlying limestone. Drainage at the Subject Property is controlled by direct infiltration of rainwater and drainage into surrounding stormwater control devices. Land elevation at the Subject Property is approximately 151 feet AMSL.

### **2.3      Soil Survey Review of Subject Property**

Two soil map units were identified at the Subject Property based on a review of the Soil Survey of Polk County, Florida, Soil Conservation Survey 1990 (SCS, 1990). The soil overlying the Subject Property is characterized as follows:

Candler – Candler soils consist of a nearly level to sloping soil that is excessively drained. These soils formed in thick beds of unconsolidated sandy marine, eolian, or fluvial sediments. These soils are found in the upland, sandhill areas of the county. The water table of this soil is found below a depth of 80 inches throughout the year. Slopes are smooth to concave and range from 0 to 8 percent.

Urban Land – This soil is found in areas where more than 85 percent of the surface is covered by parking lots, streets, sidewalks, large buildings, and houses. The natural soil cannot be observed. These soils generally have been altered by land grading and shaping.

A detailed description of the soil identified at the Subject Property and a map showing the soil type underlying the Subject Property and adjoining properties is included in Appendix C.

## **SECTION 3.0 HYDROLOGY**

### **3.1 Surface Water Classification of Polk County**

Surface waters in the State of Florida are characterized under five classifications. Class I includes surface water bodies used for potable water supplies. Class II includes surface water bodies used for shellfish propagation and harvesting areas. Class III contains all surface water bodies utilized for recreation and propagation and maintenance of a healthy well balanced population of fish and wildlife. Class IV includes all surface water bodies utilized for agricultural water supplies. Class V includes all surface water bodies used for navigation, utility, and industrial use.

All rivers, creeks, swamps, bogs, or any other surface water features in Polk County are classified as Class III Freshwater or Marine water, and should follow the Class III Freshwater or Marine Water Criteria as established in Chapter 62-302.400 of the Florida Administrative Code (FAC) (FDEP, 1996).

Outstanding waters and outstanding natural resource waters found in Polk County include Lake Arbuckle State Park, Lake Kissimmee State Park, Catfish Creek, and Saddle Blanket Lakes Scrub. All waters in National Parks, State Parks, preserves, memorials, wildlife refuge, and wilderness areas are classified as Outstanding Florida Waters as established in Chapter 62-302.700, FAC.

### **3.2 Surface Water Quality of Polk County**

Seven watersheds are present throughout Polk County. The watersheds are the Oklawaha, the Kissimmee, the Peace, the Little Manatee, the Alafia, the Hillsborough, and the Withlacoochee. The Subject Property is encompassed within the Kissimmee watershed (United States Environmental Protection Agency, [USEPA], 2001).

In accordance with Section 303(d) of the federal Clean Water Act, every two years each state must identify its polluted waterbodies and submit this list to the USEPA. These are water quality limited estuaries, lakes, and streams that fall short of state surface water quality standards, and are not expected to improve within the next two years. These standards are the criteria used to ensure that our waters can be used for recreational purposes (fishing, swimming, boating, and drinking) and industrial and agricultural purposes (USEPA, 2001).

The USEPA requires states to set priorities for cleaning up threatened waters and to establish a Total Maximum Daily Load (TMDL) for each. A TMDL, or water cleanup plan, entails an analysis of how much pollution a waterbody can take and remain healthy for its intended uses. The cleanup plan also includes recommendations for controlling pollution, and a monitoring program to test the plan's effectiveness (USEPA, 2001).

The water quality of the Kissimmee watershed, according to the 1998 303(d) list of the Clean Water Act, is better water quality with a low vulnerability (USEPA, 2001). There are twenty-five waterbodies located in the Kissimmee watershed cited in the 1998 303(d) list (FDEP, 2001). These waterbodies are listed on the 303(d) list due to dissolved oxygen, nutrient levels, and coliforms exceeding surface water standards. The 1998 303(d) map and 303(d) table illustrating the water segments of concern in Polk County is included in Appendix D.

### 3.3 Aquifer Classification of Polk County

There are three aquifer systems in Polk County in the vicinity of the Subject Property: the Surficial Aquifer System, the Intermediate Aquifer System, and the Floridan Aquifer System (SCS, 1990).

The Surficial Aquifer System is the uppermost aquifer system in Polk County. The Surficial Aquifer System tends to thin from northeast to southwest across Polk County. Lithostratigraphy associated with the Surficial Aquifer System includes undifferentiated clastic sediments of Pliocene and Pleistocene Age. In the area of the Subject Property, the Surficial Aquifer System is approximately 100 feet in thickness (Pride, et al, 1966).

The Intermediate Aquifer System separates the Surficial Aquifer System from the Floridan Aquifer System and acts as a confining unit to the Floridan Aquifer System beneath Polk County. Lithostratigraphy associated with the Intermediate Aquifer System in Polk County consists of units of the Miocene Age Hawthorne Group. Lithostratigraphic units comprising the Intermediate Aquifer System include, in descending order, the Peace River Formation and the Arcadia Formation. The Peace River Formation includes an unnamed member and the Bone Valley Member. The Arcadia Formation includes, in descending order, an upper unnamed member, the Tampa Member, and the Nocatee Member. Limestones of the lower lithostratigraphic units (Nocatee Member and Tampa Member) comprising the Intermediate Aquifer System are in hydrogeologic communication with the Floridan Aquifer System. The Peace River Formation consists of interbedded clays, sands and dolomites with varying amounts of phosphate. This lithostratigraphic section appears to be consistent with descriptions of the Peace River Formation. The Intermediate Aquifer System in the area of the Subject Property is approximately 10 to 20 feet thick.

The Floridan Aquifer is the principle source of water in Polk County for potable use as well as for irrigation and industrial uses. The Floridan Aquifer is comprised of Eocene and Oligocene Age carbonate lithostratigraphic units of the Suwannee Limestone, Ocala Group, the Avon Park Formation and the Oldsmar Formation.

## **SECTION 4.0 SITE CONDITIONS**

### **4.1 Subject Property Description**

The Subject Property consists of one rectangular shaped parcel of land totaling approximately 2.77 acres in size. The Subject Property is located within Section 02, Township 30 South, Range 27 East, as located on the Lake Wales, Florida, United States Geological Survey (USGS) 7.5 minute topographic quadrangle map (Figure 1). The Subject Property is described in the legal description provided by the FDEP, which is included in Appendix B.

The Subject Property was accessible from Kissimmee Avenue, which forms the northern property boundary, 5th Street, which forms the eastern property boundary, and Scenic Highway (State Road 27-A), which forms the western property boundary. The interior of the Subject Property could only be accessed by foot.

The vegetation at the Subject Property consists primarily of assorted oaks with a shrubby understory of low to moderate density. In general, the understory within these patches of vegetation is uniform in species composition and includes saw palmetto, scrub oak, and herbaceous undergrowth. Land use on adjoining properties consists primarily of mixed commercial along the western portion of the Subject Property and residential along the eastern portion of the Subject Property.

### **4.2 Site Inspection: Recognized Environmental Conditions and Items of Concern**

WRS personnel performed a site inspection of the Subject Property on March 9, 2005. The site inspection included a ground reconnaissance of the Subject Property and adjoining properties in order to identify recognized environmental conditions and items of concern. Emphasis of the site inspection was placed on looking for the following items or conditions:

- Dumps, especially with drums or containers.
- Debris including household, farm, or industrial waste.
- Fill used for possible cover material for landfills.
- Unusual odors.
- Sewage disposal / septic tanks
- Water supply and wells
- Storage tanks used for petroleum storage, pesticide storage, or other chemical storage.
- Buildings with chemical storage equipment or repair areas, solvent storage areas, or structures showing evidence of asbestos sprayed fire roofing or acoustical plaster.
- Vegetation different from the surrounding area for no apparent reason (e.g., bare ground or stressed vegetation).

- Modified surface water bodies or surface water bodies showing oil seeps, stained ground, discolored stream banks, oil slicks on water, or unusual colors in the water.
- Air strips with spray operation base.
- Equipment parking areas.
- Machine repair areas / hydraulic equipment.
- Pipelines or major electrical equipment.
- Oiled or formerly oiled roads.
- Electric transmission lines including pole mounted transformers or pad mounted transformers (leaks).

Recognized environmental conditions are defined as the presence or likely presence of hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substance or petroleum products into the ground, groundwater, or surface water of the Subject Property. (ASTM E-1597 Chapter 3.3.31)

Items of concern are defined as the presence of non-hazardous materials observed on a Subject Property which do not pose a threat of soil, groundwater, or surface water contamination. However, it is recommended that corrective measures be executed in order to secure the transfer of land ownership.

**Overviews of the recognized environmental conditions at the Subject Property are summarized as follows:**

Two recognized environmental conditions were observed at the Subject Property at the time of site reconnaissance. The recognized environmental conditions included the presence of a former Seaboard Air Line Railroad corridor along the interior of the Subject Property and the possible encroachment from the adjoining property (Bucks Auto Body) to the northwest of the Subject Property. Photographic documentation and field observations from the site reconnaissance are provided in Appendix E.

**Overviews of the recognized items of concern identified at the Subject Property are summarized as follows:**

Various types of miscellaneous trash/debris were observed at the Subject Property at the time of the site reconnaissance. The miscellaneous trash/debris includes cardboard, glass bottles, aluminum cans, plastics, concrete blocks, used tires, a 55-gallon metal drum (no soil staining or odors were observed), a 30-gallon metal drum (no soil staining or odors were observed), and other assorted types of domestic debris. Photographic documentation and field observations from the site reconnaissance are provided in Appendix E.

## **SECTION 5.0 HISTORICAL LAND USES**

### **5.1 Prior Land Usage**

A general site history was developed through review of the chain-of-title documentation for the Subject Property. A chain-of-title search was prepared for the Subject Property by Environmental Search, Inc. (ESI, 2005). The chain-of-title documentation addresses the Subject Property, as identified by the FDEP's legal description included in Appendix B. The Subject Property was owned by the Lake Wales Land Company prior to 1915 when it was deeded to the current owner Seaboard Air Line Railroad Company, later known as CSX Transportation Company, and now known as CSX Corporation. No environmental liens relating to the Subject Property were identified in the chain-of-title search. A copy of the chain-of-title search documentation is presented in Appendix B.

### **5.2 Historical Sanborn Map Review**

A general site history was developed through the review of historical Sanborn maps. WRS reviewed historical Sanborn maps from 1924, 1928, 1950, and 1967 showing the Subject Property and adjoining properties. The historical Sanborn maps were provided by Environmental Data Resources, Inc (EDR). The historical Sanborn maps showing the Subject Property and adjoining properties are included in Appendix F. The findings of the historical Sanborn maps review are as follows:

**Prior to or during 1920:** All major roads surrounding the Subject Property appear to have been constructed prior to 1920 and they include; Scenic Highway (State Road 27-A), Kissimmee Avenue, Lemon Street, 3<sup>rd</sup> Street, 4<sup>th</sup> Street, and 5<sup>th</sup> Street. The areas surrounding the Subject Property appear to have been relatively undeveloped with the exception of the Seaboard Airline Railroad corridor along the interior of the Subject Property and passenger depot located along the southwestern boundary of the Subject Property.

**Between 1920 and 1924:** No significant physical changes in land use activities were observed from review of the Sanborn maps of the Subject Property and adjoining properties from 1920 to 1924.

**Between 1924 and 1928:** There is an increase in commercial and residential development to the south of the Subject Property. No other significant physical changes in land use activities were observed from review of the Sanborn maps of the Subject Property and adjoining properties from 1924 to 1928.

**Between 1928 and 1943:** There is a slight increase in commercial and residential development to the north of the Subject Property. No other significant physical changes

in land use activities were observed from review of the Sanborn maps of the Subject Property and adjoining properties from 1928 to 1943.

**Between 1943 and 1962:** There is an increase in industrial, commercial and residential development to the north and south of the Subject Property. No other significant physical changes in land use activities were observed from review of the Sanborn maps of the Subject Property and adjoining properties from 1943 to 1962.

### 5.3 Historical Aerial Photograph Review

A general site history was developed through the review of historical aerial photographs. WRS reviewed historical aerial photographs from 1964, 1980, 1990, and 2000 showing the Subject Property and adjoining properties. The historical aerial photographs were provided by the Florida Department of Transportation (FDOT). The historical aerial photographs showing the Subject Property and adjoining properties are included in Appendix G. The findings of the historical aerial photograph review are as follows:

**Prior to or during 1964:** The railroad spurs identified at the Subject Property appear to have been abandoned by 1964. Vegetation is present throughout the Subject Property and there appears to be development on the surrounding properties. No other significant land use activities were observed from review of the aerial photographs of the Subject Property.

**Between 1964 and 1980:** Lemon Street Bridge appears to have been closed for travel. Also the former Seaboard Airline Railroad passenger depot appears to have been removed. There also appears to be an increase in residential developments along the southeastern portion of the Subject Property. No other significant physical changes in land use activities were observed from review of the aerial photographs of the Subject Property from 1964 to 1980.

**Between 1980 and 1990:** No significant physical changes in land use activities were observed from review of the aerial photographs of the Subject Property from between 1980 and 1990.

**Between 1990 and 2000:** No significant physical changes in land use activities were observed from review of the aerial photographs of the Subject Property from between 1990 and 2000.

The significant activities noted at the Subject Property from 1964 to 2000 were residential development in the area of the Subject Property, the removal of the former Seaboard Airline Railroad passenger depot, and the closing of the Lemon Street Bridge. No other discernable land uses were noted in the area of the Subject Property from review of the aerial photographs.

#### 5.4 Regulatory Records Review

A records review of regulatory agencies' enforcement and permitting records for Task Assignment Number 003 was conducted by Environmental Data Resources, Inc. (EDR, 2005) on March 3, 2005. The record review was conducted in accordance with ASTM - E-1527-00 to research indications of prior contamination at the Subject Property and surrounding properties. FDEP databases such as the Stationary Tank Inventory (STI) and the Aboveground Storage Tanks (AST), Leaking Underground Storage Tanks (LUST) and Underground Storage Tanks (UST's) were reviewed. The USEPA databases such as the Facility Index System List (FINDS), the National Priorities List (NPL), the Comprehensive Environmental Response Compensation and Liability Act Index (CERCLIS), the Resource Conservation and Recovery Act Index (RCRIS), and the Dry Clean Index (DRYCLN) were also reviewed.

Results from the review of the regulatory agencies' enforcement and permitting records identified 15 mappable sites and ten unmappable environmental sites identified in the zip code area of the Subject Property. The 15 mappable sites are located in Lake Wales, Florida. These sites are listed in the AST, CERCLIS, DRY CLEANERS, FINDS, LUST, RCRIS-SQG, and UST databases. Two of the mappable sites were identified within 1/8 of a mile from the Subject Property. These sites consist of the Polk County School Board Vehicle Maintenance building located south of the Subject Property and Bucks Body Shop located north of the Subject Property. The Polk County School Board Vehicle Maintenance is listed in the RCRA-SQG and FINDS databases and is classified as a small quantity generator. This site does not pose an immediate threat to the environmental integrity of the Subject Property. Bucks Body Shop is listed in the RCRA-SQG and FINDS databases and is classified as a small quantity generator. This site does not pose an immediate threat to the environmental integrity of the Subject Property. The ten unmappable sites are located in Lake Wales, Florida and include sites listed in the AST, FINDS, LUST, RCRIS-SQG, UST and VCP (Voluntary Cleanup Site) databases. Results from the review of the regulatory agencies' enforcement and permitting records identified no facilities with indications of prior contamination in the immediate area (adjoining properties) of the Subject Property.

EDR conducted a well search for the Subject Property. A well search is used to assist in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells. The database search identified thirty-four wells on the adjoining properties of the Subject Property. The well types included seven public water supply wells, six industrial commercial wells, twelve agricultural wells, one groundwater level well, one recreation/aesthetic well, and seven wells that are utilized for unknown purposes.

EDR conducted a search for radon test results for Polk County. In Polk County, 181 sites were tested for radon levels in the living area and basements of the sites. The 181 sites that tested for radon indicated 88% of the sites reporting radon levels below 4 picocuries per liter (pCi/L), 11% of the sites reported radon levels between 4 and 20 pCi/L, and 1%

of the sites reported radon levels greater than 20 pCi/L. The reported radon levels are included in the EDR data package provided in Appendix H.

The records review provided by EDR does not identify any federal, state, or local clean up liens or enforcement actions against the Subject Property, or prior performance of environmental assessment activities. A copy of EDR's reports, including site maps and summary tables, is included as Appendix H.

## SECTION 6.0 CONCLUSIONS AND RECOMMENDATIONS

A site inspection of the Subject Property was performed by WRS personnel on March 9, 2005. The site investigation covered the Subject Property and adjoining properties and consisted of a thorough search for visible evidence of potential environmental concerns. Emphasis was placed on the existence of storage tanks, evidence of hazardous materials dumping, surface water conditions (if any), stressed vegetation, and other environmental concerns.

The Subject Property was accessible from Kissimmee Avenue, which forms the northern property boundary, 5th Street, which forms the eastern property boundary, and Scenic Highway (State Road 27-A), which forms the western property boundary. The interior of the Subject Property could only be accessed by foot.

The vegetation at the Subject Property consists primarily of assorted oaks with a shrubby understory of low to moderate density. In general, the understory within these patches of vegetation is uniform in species composition and includes saw palmetto, scrub oak, and herbaceous undergrowth. Land use on adjoining properties consists primarily of mixed commercial along the western portion of the Subject Property and residential along the eastern portion of the Subject Property.

WRS has performed this Phase I ESA investigation in conformance with the Division of State Lands requirements for Task Assignment Number 003 issued by the FDEP. This investigation conformed to the requirements and limitations of ASTM Practice E 1527 for the Phase I ESA performed for the OGT Lake Wales Trailways Project (Polk County).

The recognized environmental conditions identified at the Subject Property during the site inspection include the following:

- **Former Railroad Corridor** – A former Seaboard Air Line Railroad corridor extended through the Subject Property approximately forty years ago. The actual railroad tracks were no longer present on the Subject Property at the time of the site inspection, however some of the cross ties were still present. WRS recommends that surficial soil samples be taken along the former railroad corridor. These soil samples should be analyzed for the presence of arsenic, and polynuclear aromatic hydrocarbons (PAH).
- **Encroachment** – An area of possible encroachment from an adjoining property (Bucks Auto Body) was observed on the Subject Property. The area of possible encroachment was located on the northwest corner of the Subject Property. It appears that vehicles are being parked and staged for repairs by Bucks Auto Body on the Subject Property. Since the property is being utilized as a staging area for an auto repair facility WRS recommends the collection of soil and groundwater samples in

the area where the vehicles are being staged to determine the possible contamination of the Subject Property by petroleum or petroleum based products.

The items of concern identified at the Subject Property during the site inspection include the following:

- **Miscellaneous Trash/Debris** – Miscellaneous trash/debris was observed scattered throughout portions of the Subject Property. The debris is probably associated with littering from vehicles traveling along Kissimmee Avenue, which forms the northern property boundary. The Miscellaneous trash/debris includes cardboard, glass bottles, aluminum cans, plastics, concrete blocks, used tires, a 55-gallon metal drum (no soil staining or odors were observed), a 30-gallon metal drum (no soil staining or odors were observed), and other assorted types of domestic debris. WRS recommends the removal of the miscellaneous trash/debris from the Subject Property prior to the transfer of land ownership.

Based on the field observations, review of the historical aerial photography, and regulatory records review from the Phase I ESA investigation, no other significant environmental concerns were identified at the Subject Property or adjoining properties at the time of the site inspection.

**SECTION 7.0 REFERENCES**

- American Society for Testing and Materials, 2000, Environmental Site Assessments for Commercial Real Estate, E 1527-00 and E 1528-00, Fourth Edition, West Conshohocken, PA.
- Environmental Data Resources, Inc., 2004, *The EDR-Radius Map with GeoCheck, DSL Task Assignment No. 003, The CSX Corporation Property, Lake Wales, Florida 33853*. Environmental Data Resources, Southport, CT.
- Environmental Search Incorporated, 2001, *The 50 Year Chain-of-Title Search, DSL Task Assignment No. 003, The CSX Corporation, Polk County, FL 33853*. 14225 Mayfair Avenue, Hudson, Florida.
- Florida Department of Environmental Protection. 1996. Tallahassee, Florida. Florida Statutes: 62-302.400 and 62-302.700. Retrieved April 20, 2004, from the World Wide Web: <http://www.dep.state.fl.us>
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- Florida Department of Transportation, Historical Aerial Photographs, Tallahassee, Florida. March 22, 2005.
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- Knochenmus, D. D., 1971; *Ground Water in Polk County, Florida*, U.S. Geological Survey, Map Series No. 44, Reston.
- Soil Conservation Survey, *Soil Survey of Polk County, Florida (1990)*. United States of America Department of Agriculture, Washington.
- United States Environmental Protection Agency. Surf Your Watershed, February 2001. Washington, DC: Retrieved March 22, 2005, from the World Wide Web: <http://www.epa.gov/surf3/locate/>.



Photograph 9: Typical overview of the Subject Property.



Photograph 10: Used tires observed along the interior the Subject Property.



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Appendix I-21

SITE PHOTOGRAPHS 9 & 10  
CSX CORPORATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
SECTION 2, TOWNSHIP 30 SOUTH, RANGE 27 EAST  
LAKE WALES, POLK COUNTY, FLORIDA  
WRS PROJECT NO.: 305001 / TASK NO: 003



Photograph 11: Empty 55 gallon drum observed on the Subject Property. No soil staining was present.



Photograph 12: Used tire observed along the interior the Subject Property.



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Appendix I-22

SITE PHOTOGRAPHS 11 & 12  
CSX CORPORATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
SECTION 2, TOWNSHIP 30 SOUTH, RANGE 27 EAST  
LAKE WALES, POLK COUNTY, FLORIDA  
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Photograph 13: Typical domestic debris observed along the interior the Subject Property.



Photograph 14: Empty drum and domestic debris observed along the interior the Subject Property. No soil staining was present.



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Appendix I-23

SITE PHOTOGRAPHS 13 & 14  
CSX CORPORATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
SECTION 2, TOWNSHIP 30 SOUTH, RANGE 27 EAST  
LAKE WALES, POLK COUNTY, FLORIDA  
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Photograph 15: Kissimmee Avenue located along the northern boundary of the Subject Property.



Photograph 16: Typical domestic debris observed along the interior of the Subject Property.



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Appendix I-24

SITE PHOTOGRAPHS 15 & 16  
CSX CORPORATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
SECTION 2, TOWNSHIP 30 SOUTH, RANGE 27 EAST  
LAKE WALES, POLK COUNTY, FLORIDA  
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Photograph 17: Used tire observed along the interior the Subject Property.



Photograph 18: Typical domestic debris observed along the interior the Subject Property.



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Appendix I-25

SITE PHOTOGRAPHS 17 & 18  
CSX CORPORATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
SECTION 2, TOWNSHIP 30 SOUTH, RANGE 27 EAST  
LAKE WALES, POLK COUNTY, FLORIDA  
WRS PROJECT NO.: 305001 / TASK NO: 003



Photograph 19: Remains of a bridge located on the interior the Subject Property.



Photograph 20: Remains of a bridge located on the interior the Subject Property.



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Appendix I-26

SITE PHOTOGRAPHS 19 & 20  
CSX CORPORATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
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LAKE WALES, POLK COUNTY, FLORIDA  
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Photograph 21: Lemon Street located to the north the Subject Property.



Photograph 22: Typical domestic debris observed along the interior the Subject Property.



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Appendix I-27

SITE PHOTOGRAPHS 21 & 22  
CSX CORPORATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
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Photograph 23: Typical domestic debris observed along the interior the Subject Property.



Photograph 24: Used tires and domestic debris observed along the interior the Subject Property.



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Appendix I-28

SITE PHOTOGRAPHS 23 & 24  
CSX CORPORATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
SECTION 2, TOWNSHIP 30 SOUTH, RANGE 27 EAST  
LAKE WALES, POLK COUNTY, FLORIDA  
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Photograph 25: Typical domestic debris observed along the interior the Subject Property.



Photograph 26: Used tires and domestic debris observed along the interior the Subject Property.



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Appendix I-29

SITE PHOTOGRAPHS 25 & 26  
CSX CORPORATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
SECTION 2, TOWNSHIP 30 SOUTH, RANGE 27 EAST  
LAKE WALES, POLK COUNTY, FLORIDA  
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Photograph 27: Used tires and domestic debris observed along the interior the Subject Property.



Photograph 28: Typical domestic debris observed along the interior the Subject Property.



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Appendix I-30

SITE PHOTOGRAPHS 27 & 28  
CSX CORPORATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
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Photograph 29: Scattered debris observed on a path along the interior the Subject Property.



Photograph 30: Used tires and domestic debris observed along the interior the Subject Property.



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Appendix I-31

SITE PHOTOGRAPHS 29 & 30  
CSX CORPORATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
SECTION 2, TOWNSHIP 30 SOUTH, RANGE 27 EAST  
LAKE WALES, POLK COUNTY, FLORIDA  
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Photograph 29: Scattered debris observed on a path along the interior the Subject Property.



Photograph 30: Used tires and domestic debris observed along the interior the Subject Property.



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Appendix I-32

SITE PHOTOGRAPHS 29 & 30  
CSX CORPORATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
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Photograph 31: Used tires and domestic debris observed along the interior the Subject Property.



Photograph 32: Typical domestic debris observed along the interior the Subject Property.



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Appendix I-33

SITE PHOTOGRAPHS 31 & 32  
CSX CORPORATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
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Photograph 33: Typical overview of the Subject Property.



Photograph 34: Used tires and domestic debris observed along the interior the Subject Property.



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Appendix I-34

SITE PHOTOGRAPHS 33 & 34  
CSX CORPORATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
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WRS PROJECT NO.: 305001 / TASK NO: 003



Photograph 35: Typical overview of the Subject Property.



Photograph 36: Commercial structure located along the southern boundary of Subject Property.



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Appendix I-35

SITE PHOTOGRAPHS 35 & 36  
CSX CORPORATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
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LAKE WALES, POLK COUNTY, FLORIDA  
WRS PROJECT NO.: 305001 / TASK NO: 003



Photograph 37: Railroad ties and vehicles observed along the interior of the Subject Property.



Photograph 38: Scenic Highway located along the western boundary of the Subject Property.



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Appendix I-36

SITE PHOTOGRAPHS 37 & 38  
CSX CORPORATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
SECTION 2, TOWNSHIP 30 SOUTH, RANGE 27 EAST  
LAKE WALES, POLK COUNTY, FLORIDA  
WRS PROJECT NO.: 305001 / TASK NO: 003



Photograph 39: Typical overview of the Subject Property.



Photograph 40: Commercial structure located along the northwest boundary of Subject Property.



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Appendix I-37

SITE PHOTOGRAPHS 39 & 40  
CSX CORPORATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
SECTION 2, TOWNSHIP 30 SOUTH, RANGE 27 EAST  
LAKE WALES, POLK COUNTY, FLORIDA  
WRS PROJECT NO.: 305001 / TASK NO: 003



Photograph 41: Commercial structure located along the northern boundary of Subject Property.



Photograph 42: Solid waste receptacles and encroachment observed on the northwest portion of the Subject Property.



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Appendix I-38

SITE PHOTOGRAPHS 41 & 42  
CSX CORPORATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
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LAKE WALES, POLK COUNTY, FLORIDA  
WRS PROJECT NO.: 305001 / TASK NO: 003



# Florida Department of Environmental Protection

## ADDITIONAL LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT



### CSX Property

OGT – Lake Wales Trailways Project

Lake Wales, Polk County, Florida

FDEP Contract No: PL078

Task No: 038



Submitted by:

**WRS Infrastructure  
& Environment, Inc.**



# WRS Infrastructure & Environment, Inc.

1650 Summit Lake Drive, Suite 202  
Tallahassee, Florida 32317  
850-531-9860

September 2, 2005

Ms. Donna Ayres and Ms. Cay Newell  
Bureau of Land Acquisition  
Florida Department of Environmental Protection  
3900 Commonwealth Boulevard, MS #115  
Tallahassee, Florida 32399-3000

**RE: ADDITIONAL LIMITED PHASE II ENVIRONMENTAL SITE  
ASSESSMENT**

CSX Transportation Property  
OGT – Lake Wales Trailways Project  
Lake Wales, Polk County, Florida  
WRS Project No. 305009  
FDEP Contract PL078, Task No. 038

Dear Ms. Donna Ayres and Ms. Cay Newell:

The Florida Department of Environmental Protection (FDEP) contracted WRS Infrastructure & Environment, Inc. (WRS) to conduct an additional Limited Phase II Environmental Site Assessment (ESA) at the CSX Transportation Property (Subject Property) located in Polk County, Florida. The Subject Property is shown on Figure 1 in Attachment I. The Limited Phase II ESA investigation was authorized under Task Assignment 038. WRS is pleased to present FDEP with this letter report detailing the findings of this investigation.

## **BACKGROUND**

### **Phase I ESA**

On April 1, 2005, WRS completed a Phase I ESA that identified one recognized environmental condition on the Subject Property. The following recognized environmental condition was observed throughout the Subject Property: a former railroad corridor. Cardboard, glass bottles, aluminum cans, plastics, concrete blocks, used tires, a 55-gallon metal drum (no soil staining or odors were observed), a 30-gallon metal drum (no soil staining or odors were observed), and other assorted types of domestic debris were also identified on the Subject Property. Based on the observations by WRS personnel, further assessment work was recommended at the Subject Property to determine the possible presence of soil contamination along the former railroad corridor.



## **Limited Phase II ESA**

On June 22, 2005, WRS completed a Limited Phase II ESA that included surficial soil samples throughout the former railroad corridor. Thirty-nine soil samples (samples SS-1 through SS-39) were collected from a depth of one foot below land surface (bls) and analyzed for the presence of arsenic by EPA Method 6010B. Thirteen additional soil samples (SS-2, SS-5, SS-8, SS-11, SS-14, SS-17, SS-20, SS-23, SS-26, SS-29, SS-32, SS-35, and SS-38) were collected from a depth of zero to twelve inches bls and analyzed for the presence of Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8310. The soil samples analyzed for arsenic were collected approximately every 150 feet along the centerline of the former corridor and every fifteen feet north and south from the 150 feet sample location on the centerline. The soil samples analyzed for PAHs were collected approximately every 150 feet along the centerline of the former corridor. The sample locations are illustrated on Figure 2 in Attachment I. A background sample (Background) was also collected near the Subject Property and analyzed for the presence of arsenic.

Laboratory analytical results indicated the presence of arsenic in all of the fifty-three soil samples collected. The reported concentrations for SS-1, SS-2, SS-5, SS-6, SS-7, SS-8, SS-9, SS-10, SS-11, SS-12, SS-14, SS-15, SS-17, SS-18, SS-20, SS-21, SS-22, SS-23, and SS-34 were above the FDEP Soil Cleanup Target Level (SCTL) of 2.1 mg/kg for direct exposure residential limits, as established in Chapter 62-777, Florida Administrative Code (FAC). The reported concentrations for SS-1, SS-5, and SS-8 were above the FDEP SCTL of 12.0 mg/kg for direct exposure commercial/industrial limits, as established in Chapter 62-777, FAC. The Subject Property intended land use is a recreational trail, therefore the Recreational I park area risk based soil concentration (R I) SCTL of 5.8 mg/kg for arsenic was compared to soil samples collected at the Subject Property. The R I SCTL of 5.8 mg/kg has been established by the FDEP specifically for sites within the Rails to Trails program. Arsenic concentrations below this concentration are an acceptable exposure risk for these sites. The reported concentrations for SS-1, SS-2, SS-5, SS-8, SS-11, SS-12, SS-14, SS-17, SS-18, and SS-20 were above the R I SCTL concentration.

Laboratory analytical results indicated the presence of PAHs in ten of the thirteen soil samples collected. Benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were converted to benzo(a)pyrene equivalents before comparison to the FDEP SCTL direct exposure residential limit, as established in Chapter 62-777, FAC. The reported concentrations for SS-2, SS-5, SS-8, SS-11, SS-14, SS-17, SS-20, SS-23, SS-26, and SS-38 were above the FDEP SCTL of 0.1 mg/kg for direct exposure residential limits. The reported concentrations for SS-2, SS-5, SS-8, SS-11, SS-14, SS-17, SS-20, SS-23, and SS-26 were above the FDEP SCTL of 0.7 mg/kg for direct exposure commercial/industrial limits. All reported benzo(a)pyrene equivalent concentrations were below the Leachability Based on Groundwater Criteria SCTL of 8 mg/kg.



Based on the observations by WRS personnel, further assessment work was recommended to fully define the horizontal and vertical extent of the soil contamination exceeding regulatory limits at the Subject Property.

### **SCOPE OF WORK**

WRS personnel mobilized to the Subject Property on August 10 and August 11, 2005. The following activities were performed to fully define the horizontal and vertical extent of the soil contamination exceeding regulatory limits at the Subject Property.

#### **Area of Concern: Former Railroad Corridor**

##### **One foot bls**

- Seventeen soil samples (SS-40 and SS-42 through SS-57) were collected from a depth of one foot bls and analyzed for the presence of arsenic by EPA Method 6010B.
- Twenty-two soil samples (SS-41 through SS-52, SS-55, and SS-57 through SS-65) were collected from a depth of one foot bls and analyzed for the presence of PAHs by EPA Method 8310.
- Seven soil samples (SS-2, SS-5, SS-8, SS-11, SS-14, SS-17, and SS-20) were collected from a depth of one foot bls and analyzed for the presence of herbicides by EPA Method 8151.

The sample locations at one foot bls are illustrated on Figure 2 in Attachment I.

##### **Two feet bls**

- Twenty-six samples (SS-1-2, SS-2-2, SS-5-2, SS-8-2, SS-11-2, SS-14-2, SS-17-2, SS-18-2, SS-20-2, SS-40-2, SS-42-2, SS-43-2, SS-44-2, SS-45-2, SS-46-2, SS-47-2, SS-48-2, SS-49-2, SS-50-2, SS-51-2, SS-52-2, SS-53-2, SS-54-2, SS-55-2, SS-56-2, and SS-57-2) were collected from a depth of two feet bls and analyzed for the presence of arsenic by EPA Method 6010B.
- Thirty-two soil samples (SS-2-2, SS-5-2, SS-8-2, SS-11-2, SS-14-2, SS-17-2, SS-20-2, SS-23-2, SS-26-2, SS-38-2, SS-41-2, SS-42-2, SS-43-2, SS-44-2, SS-45-2, SS-46-2, SS-47-2, SS-48-2, SS-49-2, SS-50-2, SS-51-2, SS-52-2, SS-55-2, SS-57-2, SS-58-2, SS-59-2, SS-60-2, SS-61-2, SS-62-2, SS-63-2, SS-64-2, and SS-65-2) were collected from a depth of two feet bls and analyzed for the presence of PAHs by EPA Method 8310.

The sample locations at two feet bls are illustrated on Figure 3 in Attachment I.



### **Four feet bls**

- Twenty-six samples (SS-1-4, SS-2-4, SS-5-4, SS-8-4, SS-11-4, SS-14-4, SS-17-4, SS-18-4, SS-20-4, SS-40-4, SS-42-4, SS-43-4, SS-44-4, SS-45-4, SS-46-4, SS-47-4, SS-48-4, SS-49-4, SS-50-4, SS-51-4, SS-52-4, SS-53-4, SS-54-4, SS-55-4, SS-56-4, and SS-57-4) were collected from a depth of four feet bls and analyzed for the presence of arsenic by EPA Method 6010B.
- Thirty-two soil samples (SS-2-4, SS-5-4, SS-8-4, SS-11-4, SS-14-4, SS-17-4, SS-20-4, SS-23-4, SS-26-4, SS-38-4, SS-41-4, SS-42-4, SS-43-4, SS-44-4, SS-45-4, SS-46-4, SS-47-4, SS-48-4, SS-49-4, SS-50-4, SS-51-4, SS-52-4, SS-55-4, SS-57-4, SS-58-4, SS-59-4, SS-60-4, SS-61-4, SS-62-4, SS-63-4, SS-64-4, and SS-65-4) were collected from a depth of two feet bls and analyzed for the presence of PAHs by EPA Method 8310.

The sample locations at four feet bls are illustrated on Figure 4 in Attachment I.

## **SOIL SAMPLING METHODOLOGIES**

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

The soil sampling for this investigation was conducted in accordance with the Standard Operating Procedures prescribed by the FDEP Quality Assurance Section.

WRS personnel collected a quality assurance and quality control (QA/QC) sample during the sampling activities for the Limited Phase II ESA. The QA/QC sample was a soil equipment blank sample. The equipment blank was collected from rinsate water poured over the equipment used in collecting the soil samples. Laboratory analysis of the equipment blank sample indicated all tested parameters were below laboratory method detection limits.

The sample containers were provided by Accutest Laboratories Inc. of Orlando, Florida, a Florida Department of Health approved environmental laboratory (No. E83510). The sampling activities were documented in a field logbook and the samples were transmitted under chain of custody and custody seal protocol to Accutest. The samples were immediately iced upon collection and shipped to Accutest.

### **Soil Sample Collection**

On August 10 and August 11, 2005, WRS personnel mobilized to the Subject Property and collected 162 soil samples. The soil samples were collected along the former railroad corridor at designated areas determined prior to the sampling event. The designated areas are illustrated in the work plan/cost estimate submitted to FDEP on July 20, 2005. The soil borings were advanced using precleaned stainless steel augers and the soil samples were collected using precleaned stainless steel spoons. The soil samples were transferred directly from the stainless steel spoons to the sample container supplied



by the laboratory. The sampling activities were documented in a field logbook and the samples were transmitted under chain of custody and custody seal protocol to Accutest. The samples were immediately iced upon collection and delivered to Accutest. The sample locations are shown on Figures 2, 3, and 4 in Attachment I. Photographic documentation of the soil sampling event is provided in Attachment II.

## **SOIL SAMPLING RESULTS**

### **One foot bls**

- The reported concentrations for SS-40, SS-42, SS-44, SS-46, SS-47, SS-48, SS-52, SS-55, and SS-56 are above the FDEP SCTL of 2.1 mg/kg for direct exposure residential limits, as established in Chapter 62-777, FAC. The reported concentrations for SS-40, SS-44, and SS-56 are above the FDEP SCTL of 12.0 mg/kg for direct exposure commercial/industrial limits, as established in Chapter 62-777, FAC. The Subject Property intended land use is a recreational trail, therefore the Recreational I park area risk based soil concentration (R I) SCTL of 5.8 mg/kg for arsenic was compared to soil samples collected at the Subject Property. The R I SCTL of 5.8 mg/kg has been established by the FDEP specifically for sites within the Rails to Trails program. Arsenic concentrations below this concentration are an acceptable exposure risk for these sites. Two letters discussing the establishment of this R I SCTL concentration are included in Attachment III. The reported concentrations for SS-40, SS-42, SS-44, SS-46, and SS-56 are above the R I SCTL concentration.
- Benzo(a)pyrene, benzo(a)anthracene, benzo(b)flouranthene, benzo(k)flouranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene was converted to benzo(a)pyrene equivalents before comparison to the FDEP SCTL direct exposure residential limit, as established in Chapter 62-777, FAC. The reported concentrations for SS-41, SS-42, SS-43, SS-44, SS-45, SS-46, SS-48, SS-49, SS-50, SS-52, SS-55, SS-57, SS-59, SS-60, SS-61, SS-62, and SS-65 are above the FDEP SCTL of 0.1 mg/kg for direct exposure residential limits. The reported concentrations for SS-41, SS-43, SS-46, SS-48, SS-49, SS-50, SS-52, SS-55, SS-57, SS-59, SS-60, and SS-61 are above the FDEP SCTL of 0.7 mg/kg for direct exposure commercial/industrial limits. All reported benzo(a)pyrene equivalent concentrations were below the Leachability Based on Groundwater Criteria SCTL of 8 mg/kg.
- All soil samples collected for the presence of herbicides reported concentrations below laboratory method detection limits and the FDEP SCTLs.

All other parameters analyzed were reported below laboratory method detection limits and the FDEP SCTLs. The soil laboratory analytical data sheets for Subject Property soil samples are included in Attachment IV. A summary of selected analytical parameters for the soil analytical results is provided as Table 1 in Attachment V.



### **Two feet bls**

- The reported concentrations for SS-45-2, SS-48-2, and SS-55-2 are above the FDEP SCTL of 2.1 mg/kg for direct exposure residential limits, as established in Chapter 62-777, FAC. All samples were below the FDEP SCTL of 12.0 mg/kg for direct exposure commercial/industrial limits, as established in Chapter 62-777, FAC, and the Recreational I park area risk based soil concentration (R I) SCTL of 5.8 mg/kg.
- Benzo(a)pyrene, benzo(a)anthracene, benzo(b)flouranthene, benzo(k)flouranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene was converted to benzo(a)pyrene equivalents before comparison to the FDEP SCTL direct exposure residential limit, as established in Chapter 62-777, FAC. The reported concentrations for SS-2-2, SS-17-2, SS-49-2, SS-55-2, and SS-61-2 are above the FDEP SCTL of 0.1 mg/kg for direct exposure residential limits. The reported concentration for SS-17-2 is above the FDEP SCTL of 0.7 mg/kg for direct exposure commercial/industrial limits and Leachability Based on Groundwater Criteria SCTL of 8 mg/kg.

All other parameters analyzed were reported below laboratory method detection limits and the FDEP SCTLs. The soil laboratory analytical data sheets for Subject Property soil samples are included in Attachment IV. A summary of selected analytical parameters for the soil analytical results is provided as Table 1 in Attachment V.

### **Four feet bls**

- All soil samples collected for arsenic at the four feet bls reported concentrations below the FDEP SCTL of 2.1 mg/kg for direct exposure residential limits, as established in Chapter 62-777, FAC, the FDEP SCTL of 12.0 mg/kg for direct exposure commercial/industrial limits, as established in Chapter 62-777, FAC, and the Recreational I park area risk based soil concentration (R I) SCTL of 5.8 mg/kg.
- Benzo(a)pyrene, benzo(a)anthracene, benzo(b)flouranthene, benzo(k)flouranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene was converted to benzo(a)pyrene equivalents before comparison to the FDEP SCTL direct exposure residential limit, as established in Chapter 62-777, FAC. The reported concentrations for SS-17-4, SS-50-4, and SS-52-4 are above the FDEP SCTL of 0.1 mg/kg for direct exposure residential limits. The reported concentration for SS-17-4 is above the FDEP SCTL of 0.7 mg/kg for direct exposure commercial/industrial limits. All reported benzo(a)pyrene equivalent concentrations were below the Leachability Based on Groundwater Criteria SCTL of 8 mg/kg.

All other parameters analyzed were reported below laboratory method detection limits and the FDEP SCTLs. The soil laboratory analytical data sheets for Subject Property soil samples are included in Attachment IV. A summary of selected analytical parameters for the soil analytical results is provided as Table 1 in Attachment V.



## **CONCLUSIONS AND RECOMMENDATIONS**

The results of the Limited Phase II ESA arsenic sampling identified fifteen soil sample locations above the R I SCTL concentration. Based on the findings from the Limited Phase II ESA and field observations, WRS recommends the following:

- Conduct an excavation (source removal) at SS-1, SS-2, SS-5, SS-8, SS-11, SS-12, SS-14, SS-17, SS-18, SS-20, SS-40, SS-42, SS-44, SS-46, and SS-56 locations pursuant to the Source Removal Guidelines of Chapter 62-770.300, FAC with proper disposal of the contaminated soil. Confirmation soil samples should be collected from the excavation limits for laboratory analyses of arsenic. After collection of the confirmation samples, the excavation should be backfilled and compacted to the existing land surface. FDEP's Source Removal specifications and guidelines are included in Attachment VI. The recommended source removal limits and depths are illustrated on Figure 5 in Attachment I.
- Alternatively, evaluate engineering controls in combination with a Risk Assessment to demonstrate the detected concentrations do not present an environmental threat for the intended land use.

The results of the Limited Phase II ESA PAHs sampling identified twenty-six soil sample locations above the residential cleanup levels in the soil analytical samples along the centerline of the former railroad corridor. Based on the findings from the Limited Phase II ESA and field observations, WRS recommends the following:

- Conduct an excavation (source removal) at SS-2, SS-5, SS-8, SS-11, SS-14, SS-17, SS-20, SS-23, SS-26, SS-38, SS-41, SS-42, SS-43, SS-44, SS-45, SS-46, SS-48, SS-49, SS-50, SS-52, SS-55, SS-57, SS-59, SS-60, SS-61, SS-62, and SS-65 locations pursuant to the Source Removal Guidelines of Chapter 62-770.300, FAC with proper disposal of the contaminated soil. Confirmation soil samples should be collected from the excavation limits for laboratory analyses of PAHs. After collection of the confirmation samples, the excavation should be backfilled and compacted to the existing land surface. The recommended source removal limits and depths are illustrated on Figure 5 in Attachment I.
- Install a temporary groundwater monitoring well in the area of SS-17 to determine the condition of the groundwater below the soil contamination exceeding the SCTLs. The groundwater samples will be analyzed for presence of PAHs by EPA Method 8310.
- Alternatively, evaluate engineering controls in combination with a Risk Assessment to demonstrate the detected concentrations do not present an environmental threat for the intended land use.



### PHASE I ESA RECOMMENDATIONS

The following recommendations were made in the Phase I ESA report for the Subject Property and are reported here for the completeness:

- Miscellaneous trash/debris was observed scattered throughout portions of the Subject Property. The debris is probably associated with littering from vehicles traveling along Kissimmee Avenue, which forms the northern property boundary. The Miscellaneous trash/debris includes cardboard, glass bottles, aluminum cans, plastics, concrete blocks, used tires, a 55-gallon metal drum (no soil staining or odors were observed), a 30-gallon metal drum (no soil staining or odors were observed), and other assorted types of domestic debris. WRS recommends the removal of the miscellaneous trash/debris from the Subject Property prior to the transfer of land ownership.

WRS Infrastructure & Environment, Inc. certifies the authenticity of this report to the Board of Trustees of the Internal Improvement Trust Fund of the State of Florida, and provides the following: a) a Limited Phase II environmental site assessment was performed on the Subject Property during August 10 and August 11, 2004; b) the environmental assessment meets the requirements of the Florida Department of Environmental Protection, Division of State Lands; c) the accuracy, correctness, and completeness of the environmental assessment is provided with the knowledge of the Comprehensive Environmental Response Compensation and Liability Act as set forth in 42 U.S.C. Section 9601 et seq., as amended (CERCLA); and d) the Board of Trustees of the Internal Improvement Trust Fund of the State of Florida is entitled to rely on the information set forth in this environmental assessment.

If you have any questions regarding this project or the proposed scope of work, please call Frank Powell or myself at 850-531-9860.

Sincerely,  
WRS Infrastructure & Environment, Inc.

 9-2-05

Frank Powell  
Project Manager

  
Reviewed by: 9-2-05  
Wm. Gordon Dean, P.E.  
State of Florida No. 40950

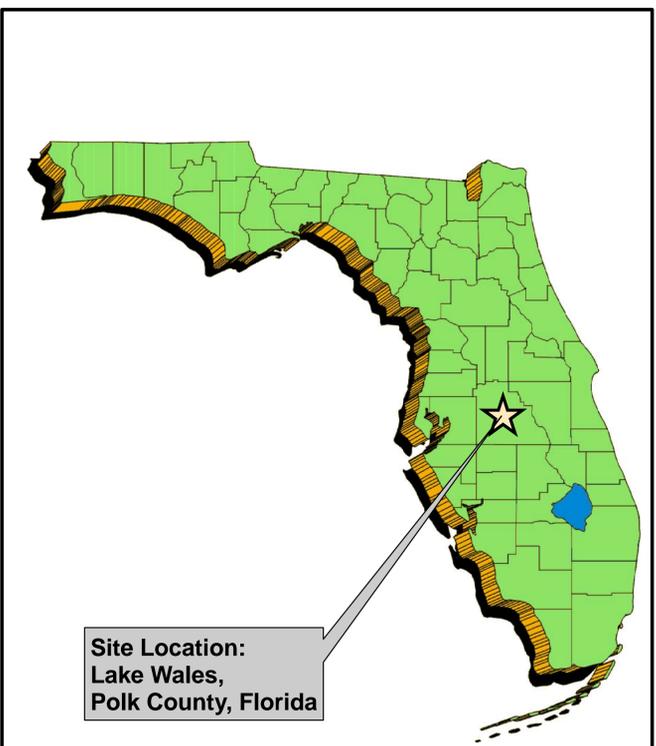
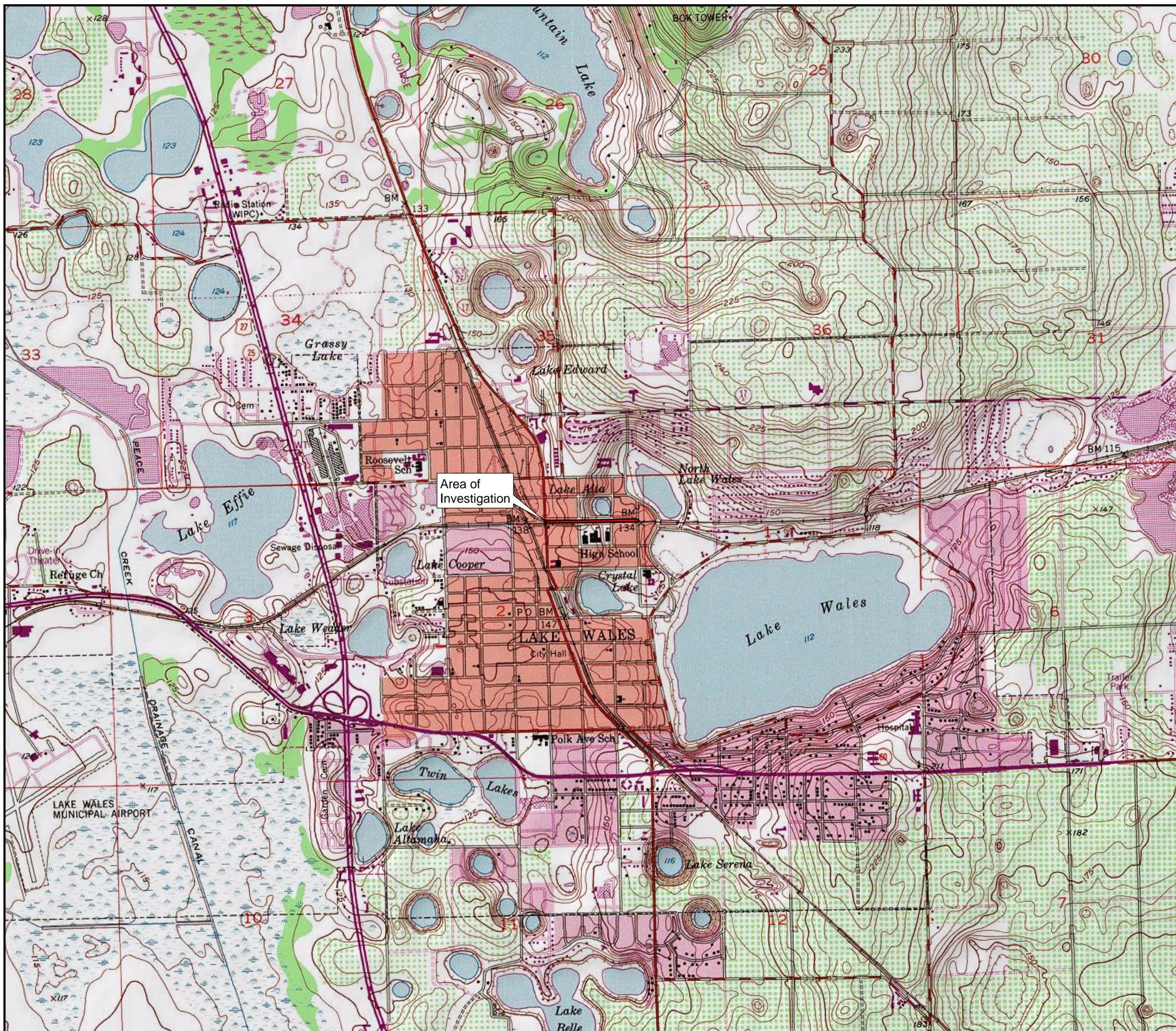
Attachments



## **Attachment I**

### **Figures**





Site Location:  
Lake Wales,  
Polk County, Florida

SOURCE: UNITED STATES GEOLOGICAL SURVEY  
LAKE WALES QUADRANGLE  
(S 02, T 37S, R 27E)

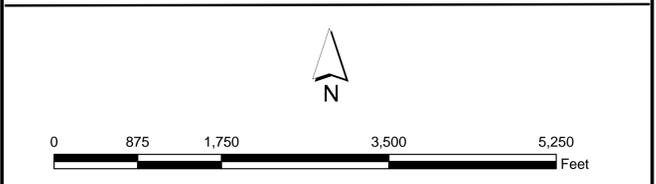
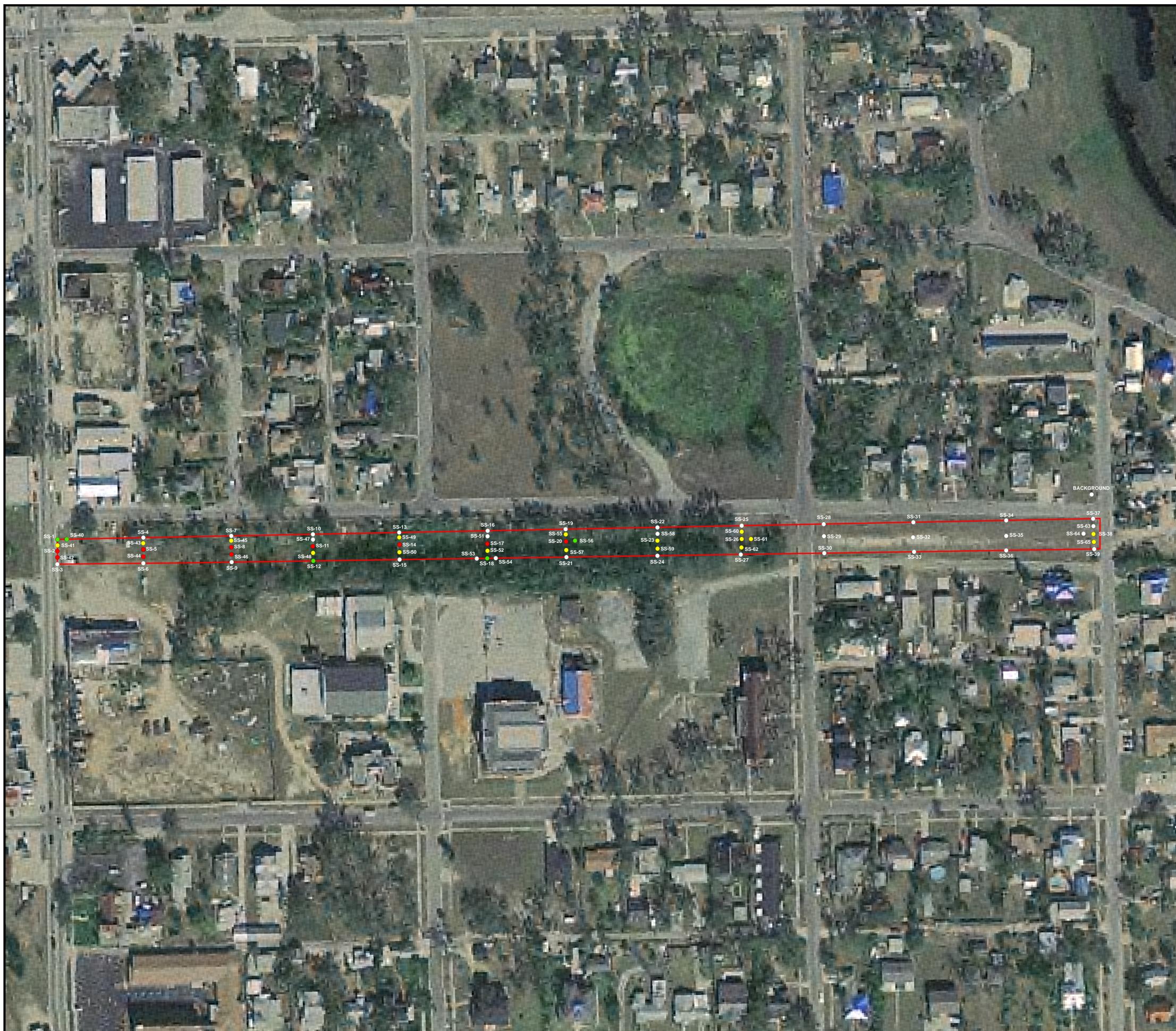


FIGURE 1  
SUBJECT PROPERTY MAP  
OGT LAKE WALES TRAILWAYS  
CSX CORPORATION  
LIMITED PHASE II - ENVIRONMENTAL SITE ASSESSMENT  
LAKE WALES, POLK COUNTY, FLORIDA



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GIS ID: 305009C001



**TABLE 2  
SAMPLE LOCATION DATA**  
LIMITED PHASE II - ENVIRONMENTAL SITE ASSESSMENT  
CSX Transportation Property - OGT, Lake Wales Trailways Project  
Lake Wales, Polk County, Florida  
WRS Project No. 30509  
Task Assignment No. 0038

SAMPLE ID	SAMPLE AREA	DEPTH (in feet)	SAMPLE DATE	LATITUDE (N)	LONGITUDE (W)	SAMPLE MATRIX	SAMPLE ANALYSIS
SS-1	Centerline	1	6/22/2005	27.9077644	-81.5814804	Soil	Arsenic-PATH/PAHs
SS-2	Centerline	1	6/22/2005	27.9077644	-81.5814804	Soil	Arsenic
SS-3	15 feet south of the Centerline	1	6/22/2005	27.9077636	-81.5814804	Soil	Arsenic
SS-4	15 feet south of the Centerline	1	6/22/2005	27.9077636	-81.5814804	Soil	Arsenic
SS-5	15 feet south of the Centerline	1	6/22/2005	27.9077636	-81.5814804	Soil	Arsenic
SS-6	15 feet south of the Centerline	1	6/22/2005	27.9077636	-81.5814804	Soil	Arsenic
SS-7	Centerline	1	6/22/2005	27.9077644	-81.5814804	Soil	Arsenic-PATH/PAHs
SS-8	Centerline	1	6/22/2005	27.9077644	-81.5814804	Soil	Arsenic
SS-9	15 feet south of the Centerline	1	6/22/2005	27.9077636	-81.5814804	Soil	Arsenic
SS-10	15 feet south of the Centerline	1	6/22/2005	27.9077636	-81.5814804	Soil	Arsenic
SS-11	Centerline	1	6/22/2005	27.9077644	-81.5814804	Soil	Arsenic-PATH/PAHs
SS-12	Centerline	1	6/22/2005	27.9077644	-81.5814804	Soil	Arsenic
SS-13	15 feet north of the Centerline	1	6/22/2005	27.9077652	-81.5814804	Soil	Arsenic
SS-14	15 feet north of the Centerline	1	6/22/2005	27.9077652	-81.5814804	Soil	Arsenic
SS-15	15 feet south of the Centerline	1	6/22/2005	27.9077636	-81.5814804	Soil	Arsenic
SS-16	15 feet north of the Centerline	1	6/22/2005	27.9077652	-81.5814804	Soil	Arsenic
SS-17	Centerline	1	6/22/2005	27.9077644	-81.5814804	Soil	Arsenic-PATH/PAHs
SS-18	Centerline	1	6/22/2005	27.9077644	-81.5814804	Soil	Arsenic
SS-19	15 feet south of the Centerline	1	6/22/2005	27.9077636	-81.5814804	Soil	Arsenic
SS-20	15 feet south of the Centerline	1	6/22/2005	27.9077636	-81.5814804	Soil	Arsenic
SS-21	15 feet south of the Centerline	1	6/22/2005	27.9077636	-81.5814804	Soil	Arsenic
SS-22	15 feet north of the Centerline	1	6/22/2005	27.9077652	-81.5814804	Soil	Arsenic
SS-23	Centerline	1	6/22/2005	27.9077644	-81.5814804	Soil	Arsenic-PATH/PAHs
SS-24	15 feet south of the Centerline	1	6/22/2005	27.9077636	-81.5814804	Soil	Arsenic
SS-25	15 feet south of the Centerline	1	6/22/2005	27.9077636	-81.5814804	Soil	Arsenic
SS-26	Centerline	1	6/22/2005	27.9077644	-81.5814804	Soil	Arsenic-PATH/PAHs
SS-27	15 feet south of the Centerline	1	6/22/2005	27.9077636	-81.5814804	Soil	Arsenic
SS-28	15 feet north of the Centerline	1	6/22/2005	27.9077652	-81.5814804	Soil	Arsenic
SS-29	Centerline	1	6/22/2005	27.9077644	-81.5814804	Soil	Arsenic-PATH/PAHs
SS-30	15 feet south of the Centerline	1	6/22/2005	27.9077636	-81.5814804	Soil	Arsenic
SS-31	15 feet north of the Centerline	1	6/22/2005	27.9077652	-81.5814804	Soil	Arsenic
SS-32	Centerline	1	6/22/2005	27.9077644	-81.5814804	Soil	Arsenic-PATH/PAHs
SS-33	15 feet south of the Centerline	1	6/22/2005	27.9077636	-81.5814804	Soil	Arsenic
SS-34	15 feet north of the Centerline	1	6/22/2005	27.9077652	-81.5814804	Soil	Arsenic
SS-35	Centerline	1	6/22/2005	27.9077644	-81.5814804	Soil	Arsenic-PATH/PAHs
SS-36	15 feet south of the Centerline	1	6/22/2005	27.9077636	-81.5814804	Soil	Arsenic
SS-37	15 feet north of the Centerline	1	6/22/2005	27.9077652	-81.5814804	Soil	Arsenic
SS-38	Centerline	1	6/22/2005	27.9077644	-81.5814804	Soil	Arsenic-PATH/PAHs
SS-39	15 feet south of the Centerline	1	6/22/2005	27.9077636	-81.5814804	Soil	Arsenic
SS-40	10 feet north of SS-1	1	8/10/2005	27.9077650	-81.5814810	Soil	PAHs
SS-41	10 feet north of SS-1	1	8/10/2005	27.9077650	-81.5814810	Soil	PAHs
SS-42	10 feet north of SS-3	1	8/10/2005	27.9077638	-81.5814808	Soil	Arsenic-PATH/PAHs
SS-43	10 feet north of SS-3	1	8/10/2005	27.9077638	-81.5814808	Soil	Arsenic-PATH/PAHs
SS-44	10 feet north of SS-5	1	8/10/2005	27.9077626	-81.5814806	Soil	Arsenic-PATH/PAHs
SS-45	10 feet north of SS-5	1	8/10/2005	27.9077626	-81.5814806	Soil	Arsenic-PATH/PAHs
SS-46	10 feet north of SS-7	1	8/10/2005	27.9077614	-81.5814804	Soil	Arsenic-PATH/PAHs
SS-47	10 feet north of SS-7	1	8/10/2005	27.9077614	-81.5814804	Soil	Arsenic-PATH/PAHs
SS-48	10 feet north of SS-9	1	8/10/2005	27.9077602	-81.5814802	Soil	Arsenic-PATH/PAHs
SS-49	10 feet north of SS-9	1	8/10/2005	27.9077602	-81.5814802	Soil	Arsenic-PATH/PAHs
SS-50	10 feet north of SS-11	1	8/10/2005	27.9077590	-81.5814800	Soil	Arsenic-PATH/PAHs
SS-51	10 feet north of SS-11	1	8/10/2005	27.9077590	-81.5814800	Soil	Arsenic-PATH/PAHs
SS-52	10 feet north of SS-13	1	8/10/2005	27.9077578	-81.5814798	Soil	Arsenic-PATH/PAHs
SS-53	10 feet north of SS-13	1	8/10/2005	27.9077578	-81.5814798	Soil	Arsenic-PATH/PAHs
SS-54	10 feet north of SS-15	1	8/10/2005	27.9077566	-81.5814796	Soil	Arsenic-PATH/PAHs
SS-55	10 feet north of SS-15	1	8/10/2005	27.9077566	-81.5814796	Soil	Arsenic-PATH/PAHs
SS-56	10 feet north of SS-17	1	8/10/2005	27.9077554	-81.5814794	Soil	Arsenic-PATH/PAHs
SS-57	10 feet north of SS-17	1	8/10/2005	27.9077554	-81.5814794	Soil	Arsenic-PATH/PAHs
SS-58	10 feet north of SS-19	1	8/10/2005	27.9077542	-81.5814792	Soil	Arsenic-PATH/PAHs
SS-59	10 feet north of SS-19	1	8/10/2005	27.9077542	-81.5814792	Soil	Arsenic-PATH/PAHs
SS-60	10 feet north of SS-21	1	8/10/2005	27.9077530	-81.5814790	Soil	Arsenic-PATH/PAHs
SS-61	10 feet north of SS-21	1	8/10/2005	27.9077530	-81.5814790	Soil	Arsenic-PATH/PAHs
SS-62	10 feet north of SS-23	1	8/10/2005	27.9077518	-81.5814788	Soil	Arsenic-PATH/PAHs
SS-63	10 feet north of SS-23	1	8/10/2005	27.9077518	-81.5814788	Soil	Arsenic-PATH/PAHs
SS-64	10 feet west of SS-38	1	8/11/2005	27.9077598	-81.5814802	Soil	PAHs
SS-65	10 feet west of SS-38	1	8/11/2005	27.9077598	-81.5814802	Soil	PAHs
SS-66	10 feet west of SS-38	1	8/11/2005	27.9077598	-81.5814802	Soil	PAHs
Background	Background	1	6/22/2005	27.90793081	-81.58189942	Soil	Arsenic

Notes:  
 SS - Soil Sample  
 PATH - Polynuclear Aromatic Hydrocarbons  
 Green shading indicates the sample is above the Arsenic Residential Soil Cleanup Target Level (2.1 mg/kg), Background Concentration (0.72 mg/kg), and Recreational I Park Soil Cleanup Target Level (5.8 mg/kg).  
 Yellow shading indicates the sample is above the Benzo(a)pyrene equivalents Residential Soil Cleanup Target Level (0.1 mg/kg).  
 Red shading indicates the sample is above the Arsenic Recreational I Park Soil Cleanup Target Level and the Benzo(a)pyrene equivalents Residential Soil Cleanup Target Level.  
 Direct exposure to residential soil cleanup target levels are from Table B, Chapter 62-777, FAC.

**Legend**

- Property Boundary
- Soil Sample Location
- Green shading indicates the sample is above the Arsenic Residential Soil Cleanup Target Level (2.1 mg/kg), Background Concentration (0.72 mg/kg), and Recreational I Park Soil Cleanup Target Level (5.8 mg/kg).
- Yellow shading indicates the sample is above the Benzo(a)pyrene equivalents Residential Soil Cleanup Target Level (0.1 mg/kg).
- Red shading indicates the sample is above the Arsenic Recreational Park Soil Cleanup Target Level and the Benzo(a)pyrene equivalents Residential Soil Cleanup Target Level.

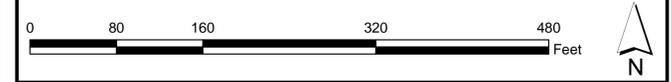
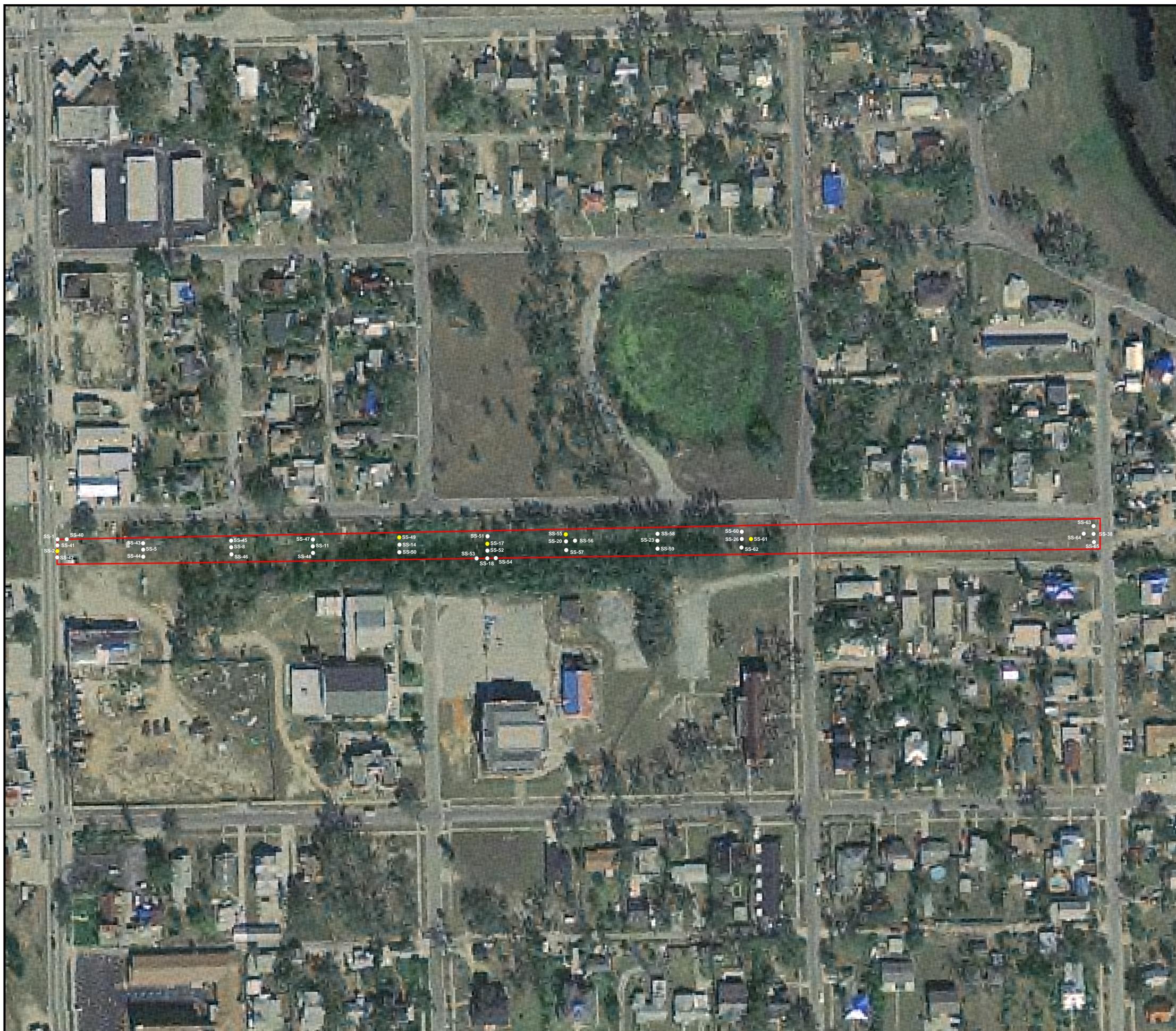


FIGURE 2  
 SAMPLE LOCATION MAP  
 0-1' BLS  
 OGT LAKE WALES TRAILWAYS  
 CSX CORPORATION  
 LIMITED PHASE II - ENVIRONMENTAL SITE ASSESSMENT  
 LAKE WALES, POLK COUNTY, FLORIDA

**WRS Infrastructure & Environment, Inc.**

1650 SUMMIT LAKE DRIVE, SUITE 202, TALLAHASSEE, FLORIDA 32317  
 PH: (850) 531-9860 FAX: (850) 531-9866

GIS ID: 305009C002



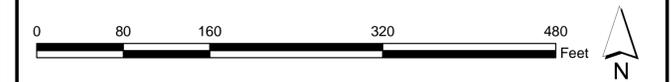
**TABLE 2**  
**SAMPLE LOCATION DATA**  
 LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT  
 CSX Transportation Property - OGT - Lake Wales Trailways Project  
 Lake Wales, Polk County, Florida  
 WRS Project No. 305009  
 Task Assignment No. 0038

SAMPLE ID	SAMPLE AREA	DEPTH (in feet)	SAMPLE DATE	LATITUDE (N)	LONGITUDE (W)	SAMPLE MATRIX	SAMPLE ANALYSIS
SS-1-2	15 feet north of the Centerline	2	8/10/2005	27.90781978	-81.58748617	Soil	Arsenic
SS-2-2	Centerline	2	8/10/2005	27.90779204	-81.58748694	Soil	Arsenic/PAHs
SS-3-2	Centerline	2	8/10/2005	27.90776356	-81.58748797	Soil	Arsenic/PAHs
SS-4-2	Centerline	2	8/10/2005	27.90776647	-81.58644926	Soil	Arsenic/PAHs
SS-11-2	Centerline	2	8/10/2005	27.90775753	-81.58610895	Soil	Arsenic/PAHs
SS-12-2	Centerline	2	8/11/2005	27.90776319	-81.58540114	Soil	Arsenic/PAHs
SS-13-2	Centerline	2	8/10/2005	27.90779204	-81.58748694	Soil	Arsenic/PAHs
SS-18-2	15 feet south of the Centerline	2	8/10/2005	27.90768978	-81.58516813	Soil	Arsenic
SS-20-2	Centerline	2	8/11/2005	27.90776202	-81.58411411	Soil	Arsenic/PAHs
SS-21-2	Centerline	2	8/11/2005	27.90773779	-81.58524799	Soil	PAHs
SS-26-2	Centerline	2	8/11/2005	27.90773705	-81.58792974	Soil	PAHs
SS-38-2	Centerline	2	8/11/2005	27.90774272	-81.58709199	Soil	PAHs
SS-40-2	10 feet east of SS-1	2	8/10/2005	27.90761838	-81.58741627	Soil	Arsenic
SS-41-2	10 feet north of SS-2	2	8/10/2005	27.90779159	-81.58748714	Soil	PAHs
SS-42-2	10 feet south of SS-2	2	8/10/2005	27.90771817	-81.58720495	Soil	Arsenic/PAHs
SS-43-2	10 feet north of SS-5	2	8/10/2005	27.90779939	-81.58703391	Soil	Arsenic/PAHs
SS-44-2	10 feet south of SS-5	2	8/10/2005	27.90772299	-81.58703454	Soil	Arsenic/PAHs
SS-45-2	10 feet north of SS-8	2	8/10/2005	27.90779725	-81.58604881	Soil	Arsenic/PAHs
SS-46-2	10 feet south of SS-8	2	8/10/2005	27.90773243	-81.58644869	Soil	Arsenic/PAHs
SS-47-2	10 feet north of SS-11	2	8/10/2005	27.90779939	-81.58610725	Soil	Arsenic/PAHs
SS-48-2	10 feet south of SS-11	2	8/10/2005	27.90773172	-81.58610811	Soil	Arsenic/PAHs
SS-49-2	10 feet north of SS-14	2	8/11/2005	27.90779771	-81.58548184	Soil	Arsenic/PAHs
SS-50-2	10 feet south of SS-14	2	8/11/2005	27.9077211	-81.58544184	Soil	Arsenic/PAHs
SS-51-2	10 feet north of SS-17	2	8/11/2005	27.90779429	-81.58316456	Soil	Arsenic/PAHs
SS-52-2	10 feet south of SS-17	2	8/10/2005	27.90772585	-81.58516666	Soil	Arsenic/PAHs
SS-53-2	10 feet west of SS-18	2	8/10/2005	27.90769	-81.58523441	Soil	Arsenic
SS-54-2	10 feet east of SS-18	2	8/10/2005	27.90769096	-81.58312116	Soil	Arsenic
SS-55-2	10 feet north of SS-20	2	8/11/2005	27.90779206	-81.58414195	Soil	Arsenic/PAHs
SS-56-2	10 feet east of SS-20	2	8/11/2005	27.90778263	-81.58402926	Soil	Arsenic
SS-57-2	10 feet north of SS-20	2	8/11/2005	27.90771188	-81.58414124	Soil	Arsenic/PAHs
SS-58-2	10 feet north of SS-23	2	8/11/2005	27.90779615	-81.58424673	Soil	PAHs
SS-59-2	10 feet south of SS-23	2	8/11/2005	27.90771975	-81.58430829	Soil	PAHs
SS-60-2	10 feet north of SS-26	2	8/11/2005	27.90779265	-81.58792011	Soil	PAHs
SS-61-2	10 feet east of SS-26	2	8/11/2005	27.9077971	-81.58742875	Soil	PAHs
SS-62-2	10 feet south of SS-26	2	8/11/2005	27.90771126	-81.58379252	Soil	PAHs
SS-63-2	10 feet north of SS-38	2	8/11/2005	27.90778802	-81.58189292	Soil	PAHs
SS-64-2	10 feet east of SS-38	2	8/11/2005	27.90778997	-81.58189491	Soil	PAHs
SS-65-2	10 feet south of SS-38	2	8/11/2005	27.90771056	-81.58189224	Soil	PAHs

Notes:  
 SS - Soil Sample  
 PAHs - Polynuclear Aromatic Hydrocarbons  
 Green shading indicates the sample is above the Arsenic Residential Soil Cleanup Target Level (2.1 mg/kg), Background Concentration (0.72 mg/kg), and Recreational I Park Soil Cleanup Target Level (5.8 mg/kg).  
 Yellow shading indicates the sample is above the Benzo(a)pyrene equivalent Residential Soil Cleanup Target Level (0.1 mg/kg).  
 Red shading indicates the sample is above the Arsenic Recreational Park Soil Cleanup Target Level and the Benzo(a)pyrene equivalent Residential Soil Cleanup Target Level.  
 Direct exposure for residential soil cleanup target levels are from Table II, Chapter 62-777, FAC.

**Legend**

- Property Boundary
- Soil Sample Location
- Green shading indicates the sample is above the Arsenic Residential Soil Cleanup Target Level (2.1 mg/kg), Background Concentration (0.72 mg/kg), and Recreational I Park Soil Cleanup Target Level (5.8 mg/kg).
- Yellow shading indicates the sample is above the Benzo(a)pyrene equivalent Residential Soil Cleanup Target Level (0.1 mg/kg).
- Red shading indicates the sample is above the Arsenic Recreational Park Soil Cleanup Target Level and the Benzo(a)pyrene equivalent Residential Soil Cleanup Target Level.



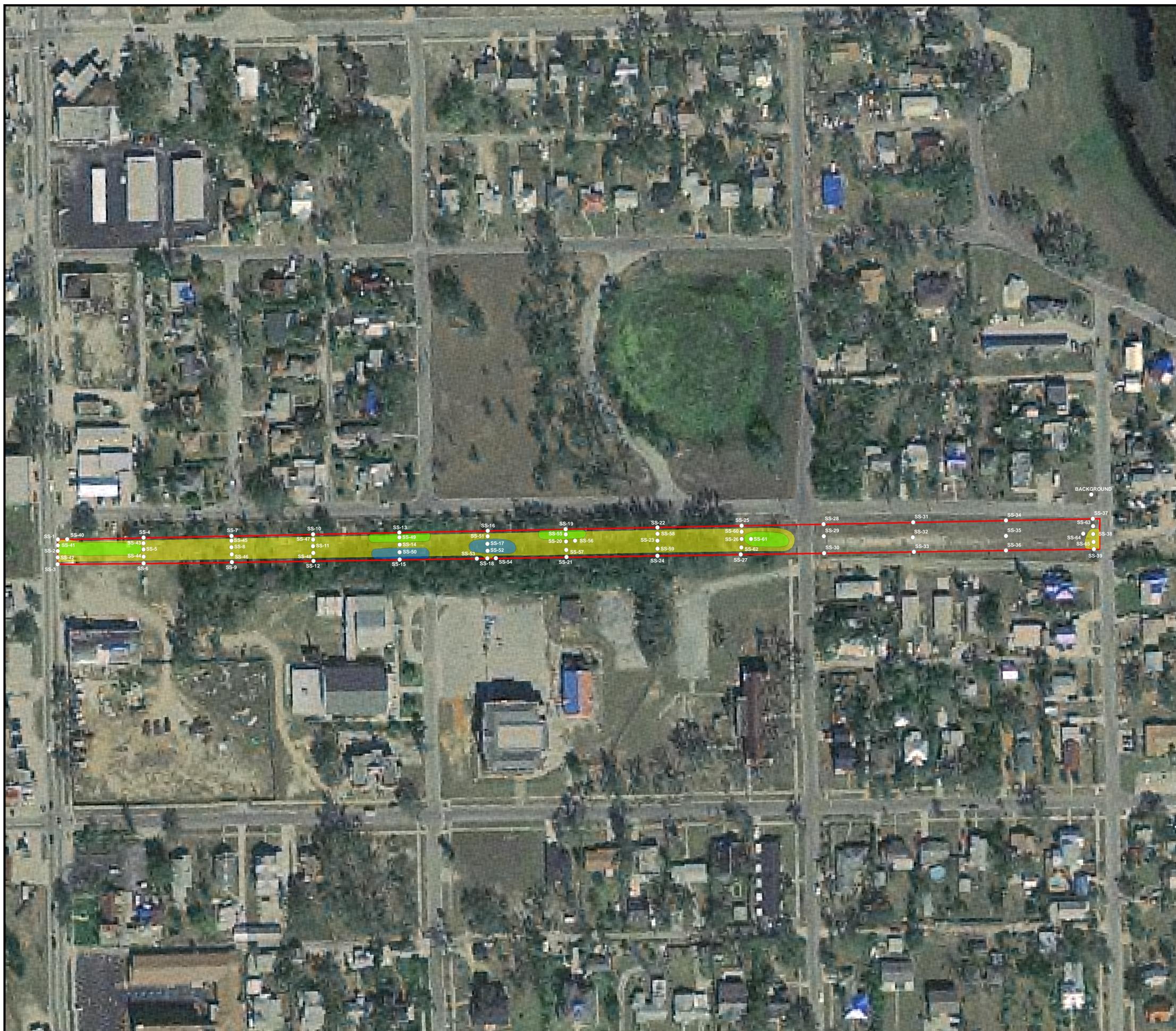
**FIGURE 3**  
**SAMPLE LOCATION MAP**  
 2' BLS  
 OGT LAKE WALES TRAILWAYS  
 CSX CORPORATION  
 LIMITED PHASE II - ENVIRONMENTAL SITE ASSESSMENT  
 LAKE WALES, POLK COUNTY, FLORIDA

**WRS Infrastructure & Environment, Inc.**

1650 SUMMIT LAKE DRIVE, SUITE 202, TALLAHASSEE, FLORIDA 32317  
 PH: (850) 531-9860 FAX: (850) 531-9866

GIS ID: 305009C003





**Legend**

- Property Boundary
- Soil Sample Location
- Recommended source removal to 2' bls.
- Recommended source removal to 4' bls.
- Recommended source removal to greater than 4' bls.

0      80      160      320      480  
 Feet N

**FIGURE 5**  
**RECOMMENDED SOURCE REMOVAL LIMITS**  
**OGT LAKE WALES TRAILWAYS**  
**CSX CORPORATION**  
**LIMITED PHASE II - ENVIRONMENTAL SITE ASSESSMENT**  
**LAKE WALES, POLK COUNTY, FLORIDA**



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GIS ID: 305009C004

## **Attachment II**

### Photographic Documentation





**Photograph 1:** Soil sample area locations (SS-1, SS-2, SS-3, SS-40, SS-41, and SS-42) along the abandoned railroad corridor located on the Subject Property.



**Photograph 2:** Soil sample area locations (SS-4, SS-5, SS-6, SS-43, and SS-44) along the abandoned railroad corridor located on the Subject Property.



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Appendix I-55

SITE PHOTOGRAPHS 1 & 2  
LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT  
CSX TRANSPORTATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
LAKE WALES, POLK COUNTY, FLORIDA  
WRS PROJECT NO.: 305009 / TASK NO: 038



**Photograph 3:** Soil sample area locations (SS-7, SS-8, SS-9, SS-45, and SS-46) along the abandoned railroad corridor located on the Subject Property.



**Photograph 4:** Soil sample area locations (SS-10, SS-11, SS-12, SS-47, and SS-48) along the abandoned railroad corridor located on the Subject Property.



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Appendix I-56

SITE PHOTOGRAPHS 3 & 4  
LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT  
CSX TRANSPORTATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
LAKE WALES, POLK COUNTY, FLORIDA  
WRS PROJECT NO.: 305009 / TASK NO: 038



**Photograph 5:** Soil sample area locations (SS-13, SS-14, SS-15, SS-49, and SS-50) along the abandoned railroad corridor located on the Subject Property.



**Photograph 6:** Soil sample area locations (SS-16, SS-17, SS-18, SS-51, SS-52, SS-53, and SS-54) along the abandoned railroad corridor located on the Subject Property.



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Appendix I-57

SITE PHOTOGRAPHS 5 & 6  
LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT  
CSX TRANSPORTATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
LAKE WALES, POLK COUNTY, FLORIDA  
WRS PROJECT NO.: 305009 / TASK NO: 038



**Photograph 7:** Soil sample area locations (SS-19, SS-20, SS-21, SS-55, SS-56 and SS-57) along the abandoned railroad corridor located on the Subject Property.



**Photograph 8:** Soil sample area locations (SS-22, SS-23, SS-24, SS-58, and SS-59) along the abandoned railroad corridor located on the Subject Property.



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Appendix I-58

SITE PHOTOGRAPHS 7 & 8  
LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT  
CSX TRANSPORTATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
LAKE WALES, POLK COUNTY, FLORIDA  
WRS PROJECT NO.: 305009 / TASK NO: 038



**Photograph 9:** Soil sample area locations (SS-25, SS-26, SS-27, SS-60, SS-61 and SS-62) along the abandoned railroad corridor located on the Subject Property.



**Photograph 10:** Soil sample area locations (SS-37, SS-38, SS-39, SS-63, SS-64, and SS-65) along the abandoned railroad corridor located on the Subject Property.



**WRS Infrastructure &  
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Appendix I-59

SITE PHOTOGRAPHS 9 & 10  
LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT  
CSX TRANSPORTATION PROPERTY  
OGT LAKE WALES TRAILWAYS PROJECT  
LAKE WALES, POLK COUNTY, FLORIDA  
WRS PROJECT NO.: 305009 / TASK NO: 038

### **Attachment III**

#### Recreational I Park Area Soil Cleanup Target Level Letters



## **Attachment IV**

### Soil Laboratory Data Sheet





09/02/05

**Technical Report for**

**WRS Infrastructure and Environmental**

**CSX-Lake Wales, Lake Wales, FL**

**305009**

**Accutest Job Number: F34000**

**Sampling Dates: 08/10/05 - 08/11/05**

**Report to:**

**WRS Infrastructure and Environmental**

**fpowell@wrsie.com**

**ATTN: Frank Powell**

**Total number of pages in report: 194**



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**

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK  
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## Sample Summary

WRS Infrastructure and Environmental

Job No: F34000

CSX-Lake Wales, Lake Wales, FL  
Project No: 305009

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F34000-1	08/10/05	11:00 JRC	08/11/05	SO	Soil	SS-1-2
F34000-2	08/10/05	11:00 JRC	08/11/05	SO	Soil	SS-1-4
F34000-3	08/10/05	11:25 JRC	08/11/05	SO	Soil	SS-2
F34000-4	08/10/05	11:25 JRC	08/11/05	SO	Soil	SS-2-2
F34000-5	08/10/05	11:25 JRC	08/11/05	SO	Soil	SS-2-4
F34000-6	08/10/05	12:40 JRC	08/11/05	SO	Soil	SS-5
F34000-7	08/10/05	12:40 JRC	08/11/05	SO	Soil	SS-5-2
F34000-8	08/10/05	12:40 JRC	08/11/05	SO	Soil	SS-5-4
F34000-9	08/10/05	13:15 JRC	08/11/05	SO	Soil	SS-8
F34000-10	08/10/05	13:15 JRC	08/11/05	SO	Soil	SS-8-2
F34000-11	08/10/05	13:15 JRC	08/11/05	SO	Soil	SS-8-4
F34000-12	08/10/05	14:00 JRC	08/11/05	SO	Soil	SS-11
F34000-13	08/10/05	14:00 JRC	08/11/05	SO	Soil	SS-11-2

---

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

**Sample Summary**

(continued)

WRS Infrastructure and Environmental

Job No: F34000

CSX-Lake Wales, Lake Wales, FL

Project No: 305009

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F34000-14	08/10/05	14:00 JRC	08/11/05	SO	Soil	SS-11-4
F34000-15	08/11/05	08:00 JRC	08/11/05	SO	Soil	SS-14
F34000-16	08/11/05	08:00 JRC	08/11/05	SO	Soil	SS-14-2
F34000-17	08/11/05	08:00 JRC	08/11/05	SO	Soil	SS-14-4
F34000-18	08/10/05	16:30 JRC	08/11/05	SO	Soil	SS-17
F34000-19	08/10/05	16:30 JRC	08/11/05	SO	Soil	SS-17-2
F34000-20	08/10/05	16:30 JRC	08/11/05	SO	Soil	SS-17-4
F34000-21	08/10/05	15:20 JRC	08/11/05	SO	Soil	SS-18
F34000-22	08/10/05	15:20 JRC	08/11/05	SO	Soil	SS-18-2
F34000-23	08/10/05	15:20 JRC	08/11/05	SO	Soil	SS-18-4
F34000-24	08/11/05	09:00 JRC	08/11/05	SO	Soil	SS-20
F34000-25	08/11/05	09:00 JRC	08/11/05	SO	Soil	SS-20-2
F34000-26	08/11/05	09:00 JRC	08/11/05	SO	Soil	SS-20-4

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.



## Sample Summary

(continued)

WRS Infrastructure and Environmental

**Job No:** F34000

CSX-Lake Wales, Lake Wales, FL

Project No: 305009

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F34000-27	08/11/05	10:25 JRC	08/11/05	SO	Soil	SS-23-2
F34000-28	08/11/05	10:25 JRC	08/11/05	SO	Soil	SS-23-4
F34000-29	08/11/05	10:50 JRC	08/11/05	SO	Soil	SS-26-2
F34000-30	08/11/05	10:50 JRC	08/11/05	SO	Soil	SS-26-4
F34000-31	08/11/05	11:30 JRC	08/11/05	SO	Soil	SS-38-2
F34000-32	08/11/05	11:30 JRC	08/11/05	SO	Soil	SS-38-4
F34000-33	08/10/05	11:10 JRC	08/11/05	SO	Soil	SS-40
F34000-34	08/10/05	11:10 JRC	08/11/05	SO	Soil	SS-40-2
F34000-35	08/10/05	11:10 JRC	08/11/05	SO	Soil	SS-40-4
F34000-36	08/10/05	11:20 JRC	08/11/05	SO	Soil	SS-41
F34000-37	08/10/05	11:20 JRC	08/11/05	SO	Soil	SS-41-2
F34000-38	08/10/05	11:20 JRC	08/11/05	SO	Soil	SS-41-4
F34000-39	08/10/05	11:35 JRC	08/11/05	SO	Soil	SS-42

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## Sample Summary

(continued)

WRS Infrastructure and Environmental

Job No: F34000

CSX-Lake Wales, Lake Wales, FL

Project No: 305009

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F34000-40	08/10/05	11:35 JRC	08/11/05	SO	Soil	SS-42-2
F34000-41	08/10/05	11:35 JRC	08/11/05	SO	Soil	SS-42-4
F34000-42	08/10/05	11:45 JRC	08/11/05	SO	Soil	SS-43
F34000-43	08/10/05	11:45 JRC	08/11/05	SO	Soil	SS-43-2
F34000-44	08/10/05	11:45 JRC	08/11/05	SO	Soil	SS-43-4
F34000-45	08/10/05	12:30 JRC	08/11/05	SO	Soil	SS-44
F34000-46	08/10/05	12:30 JRC	08/11/05	SO	Soil	SS-44-2
F34000-47	08/10/05	12:30 JRC	08/11/05	SO	Soil	SS-44-4
F34000-48	08/10/05	12:05 JRC	08/11/05	SO	Soil	SS-45
F34000-49	08/10/05	12:05 JRC	08/11/05	SO	Soil	SS-45-2
F34000-50	08/10/05	12:05 JRC	08/11/05	SO	Soil	SS-45-4
F34000-51	08/10/05	12:10 JRC	08/11/05	SO	Soil	SS-46
F34000-52	08/10/05	12:10 JRC	08/11/05	SO	Soil	SS-46-2

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



## Sample Summary

(continued)

WRS Infrastructure and Environmental

**Job No:** F34000

CSX-Lake Wales, Lake Wales, FL

Project No: 305009

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F34000-53	08/10/05	12:10 JRC	08/11/05	SO	Soil	SS-46-4
F34000-54	08/10/05	13:15 JRC	08/11/05	SO	Soil	SS-47
F34000-55	08/10/05	13:15 JRC	08/11/05	SO	Soil	SS-47-2
F34000-56	08/10/05	13:15 JRC	08/11/05	SO	Soil	SS-47-4
F34000-57	08/10/05	13:45 JRC	08/11/05	SO	Soil	SS-48
F34000-58	08/10/05	13:45 JRC	08/11/05	SO	Soil	SS-48-2
F34000-59	08/10/05	13:45 JRC	08/11/05	SO	Soil	SS-48-4
F34000-60	08/11/05	08:15 JRC	08/11/05	SO	Soil	SS-49
F34000-61	08/11/05	08:15 JRC	08/11/05	SO	Soil	SS-49-2
F34000-62	08/11/05	08:15 JRC	08/11/05	SO	Soil	SS-49-4
F34000-63	08/11/05	08:10 JRC	08/11/05	SO	Soil	SS-50
F34000-64	08/11/05	08:10 JRC	08/11/05	SO	Soil	SS-50
F34000-65	08/11/05	08:10 JRC	08/11/05	SO	Soil	SS-50-2

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



## Sample Summary

(continued)

WRS Infrastructure and Environmental

**Job No:** F34000

CSX-Lake Wales, Lake Wales, FL

Project No: 305009

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F34000-66	08/11/05	08:10 JRC	08/11/05	SO	Soil	SS-50-4
F34000-67	08/10/05	15:30 JRC	08/11/05	SO	Soil	SS-51
F34000-68	08/10/05	15:30 JRC	08/11/05	SO	Soil	SS-51-2
F34000-69	08/10/05	16:20 JRC	08/11/05	SO	Soil	SS-52
F34000-70	08/10/05	16:20 JRC	08/11/05	SO	Soil	SS-52-2
F34000-71	08/10/05	16:20 JRC	08/11/05	SO	Soil	SS-52-4
F34000-72	08/10/05	15:20 JRC	08/11/05	SO	Soil	SS-53
F34000-73	08/10/05	15:20 JRC	08/11/05	SO	Soil	SS-53-2
F34000-74	08/10/05	15:20 JRC	08/11/05	SO	Soil	SS-53-4
F34000-75	08/10/05	16:15 JRC	08/11/05	SO	Soil	SS-54
F34000-76	08/10/05	16:15 JRC	08/11/05	SO	Soil	SS-54-2
F34000-77	08/10/05	16:15 JRC	08/11/05	SO	Soil	SS-54-4
F34000-78	08/11/05	09:45 JRC	08/11/05	SO	Soil	SS-55

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



## Sample Summary

(continued)

WRS Infrastructure and Environmental

**Job No:** F34000

CSX-Lake Wales, Lake Wales, FL

Project No: 305009

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F34000-79	08/11/05	09:45 JRC	08/11/05	SO	Soil	SS-55-2
F34000-80	08/11/05	09:45 JRC	08/11/05	SO	Soil	SS-55-4
F34000-81	08/11/05	08:55 JRC	08/11/05	SO	Soil	SS-56
F34000-82	08/11/05	08:55 JRC	08/11/05	SO	Soil	SS-56-2
F34000-83	08/11/05	08:55 JRC	08/11/05	SO	Soil	SS-56-4
F34000-84	08/11/05	10:00 JRC	08/11/05	SO	Soil	SS-57
F34000-85	08/11/05	10:00 JRC	08/11/05	SO	Soil	SS-57-2
F34000-86	08/11/05	10:00 JRC	08/11/05	SO	Soil	SS-57-4
F34000-87	08/11/05	10:25 JRC	08/11/05	SO	Soil	SS-58
F34000-88	08/11/05	10:25 JRC	08/11/05	SO	Soil	SS-58-2
F34000-89	08/11/05	10:25 JRC	08/11/05	SO	Soil	SS-58-4
F34000-90	08/11/05	08:30 JRC	08/11/05	SO	Soil	SS-59
F34000-91	08/11/05	08:30 JRC	08/11/05	SO	Soil	SS-59-2

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



## Sample Summary

(continued)

WRS Infrastructure and Environmental

**Job No:** F34000

CSX-Lake Wales, Lake Wales, FL

Project No: 305009

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F34000-92	08/11/05	08:30 JRC	08/11/05	SO	Soil	SS-59-4
F34000-93	08/11/05	10:50 JRC	08/11/05	SO	Soil	SS-60
F34000-94	08/11/05	10:50 JRC	08/11/05	SO	Soil	SS-60-2
F34000-95	08/11/05	10:50 JRC	08/11/05	SO	Soil	SS-60-4
F34000-96	08/11/05	10:55 JRC	08/11/05	SO	Soil	SS-61
F34000-97	08/11/05	10:55 JRC	08/11/05	SO	Soil	SS-61-2
F34000-98	08/11/05	10:55 JRC	08/11/05	SO	Soil	SS-61-4
F34000-99	08/11/05	10:45 JRC	08/11/05	SO	Soil	SS-62
F34000-100	08/11/05	10:45 JRC	08/11/05	SO	Soil	SS-62-2
F34000-101	08/11/05	10:45 JRC	08/11/05	SO	Soil	SS-62-4
F34000-102	08/11/05	11:30 JRC	08/11/05	SO	Soil	SS-63
F34000-103	08/11/05	11:30 JRC	08/11/05	SO	Soil	SS-63-2
F34000-104	08/11/05	11:30 JRC	08/11/05	SO	Soil	SS-63-4

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



## Sample Summary

(continued)

WRS Infrastructure and Environmental

**Job No:** F34000

CSX-Lake Wales, Lake Wales, FL

Project No: 305009

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F34000-105	08/11/05	11:45 JRC	08/11/05	SO	Soil	SS-64
F34000-106	08/11/05	11:45 JRC	08/11/05	SO	Soil	SS-64-2
F34000-107	08/11/05	11:45 JRC	08/11/05	SO	Soil	SS-64-4
F34000-108	08/11/05	11:20 JRC	08/11/05	SO	Soil	SS-65
F34000-109	08/11/05	11:20 JRC	08/11/05	SO	Soil	SS-65-2
F34000-110	08/11/05	11:20 JRC	08/11/05	SO	Soil	SS-65-4
F34000-111	08/11/05	12:00 JRC	08/11/05	AQ	Equipment Blank	RINSATE-EQUIPMENT
F34000-112	08/11/05	12:00 JRC	08/11/05	AQ	Water	DECON DRUM WATER

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## Report of Analysis

<b>Client Sample ID:</b>	SS-1-2	<b>Date Sampled:</b>	08/10/05
<b>Lab Sample ID:</b>	F34000-1	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	94.8
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.88	0.51	0.30	mg/kg	1	08/16/05	08/17/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4500

(2) Prep QC Batch: MP8445

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-1-4	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-2	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 91.6
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.8	0.55	0.33	mg/kg	1	08/16/05	08/17/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4500

(2) Prep QC Batch: MP8445

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-2		<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-3		<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 85.7
<b>Method:</b> SW846 8151 SW846 3550B		
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	GG23595.D	1	08/25/05	ATX	08/19/05	T:OP4918	T:GGG746
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

**Herbicide List**

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	16 U	39	16	ug/kg	
93-72-1	2,4,5-TP (Silvex)	14 U	16	14	ug/kg	
93-76-5	2,4,5-T	3.9 U	7.8	3.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	114%		17-165%

(a) Analysis performed at Accutest Laboratories, Houston, TX.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SS-2-2	<b>Date Sampled:</b>	08/10/05
<b>Lab Sample ID:</b>	F34000-4	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	81.0
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	EE034009.D	1	08/18/05	MRE	08/16/05	OP14136	GEE1320
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.9 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	200 U	800	200	ug/kg	
208-96-8	Acenaphthylene	200 U	800	200	ug/kg	
120-12-7	Anthracene	200 U	400	200	ug/kg	
56-55-3	Benzo(a)anthracene	100 U	400	100	ug/kg	
50-32-8	Benzo(a)pyrene	133	80	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	164	80	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	182	80	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	95.7	80	20	ug/kg	
218-01-9	Chrysene	100 U	400	100	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	26.8	80	20	ug/kg	I
206-44-0	Fluoranthene	155	400	100	ug/kg	I
86-73-7	Fluorene	200 U	400	200	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	134	80	20	ug/kg	
91-20-3	Naphthalene	100 U	400	100	ug/kg	
90-12-0	1-Methylnaphthalene	100 U	400	100	ug/kg	
91-57-6	2-Methylnaphthalene	100 U	400	100	ug/kg	
85-01-8	Phenanthrene	200 U	400	200	ug/kg	
129-00-0	Pyrene	139	400	100	ug/kg	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		49-124%
92-94-4	p-Terphenyl	87%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result ≥ MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-2-2	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-4	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 81.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.95	0.62	0.37	mg/kg	1	08/16/05	08/17/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4500

(2) Prep QC Batch: MP8445

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-2-4		
<b>Lab Sample ID:</b> F34000-5		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 79.5
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE034010.D	1	08/18/05	MRE	08/16/05	OP14136	GEE1320
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.8 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	200 U	820	200	ug/kg	
208-96-8	Acenaphthylene	200 U	820	200	ug/kg	
120-12-7	Anthracene	200 U	410	200	ug/kg	
56-55-3	Benzo(a)anthracene	100 U	410	100	ug/kg	
50-32-8	Benzo(a)pyrene	20 U	82	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	20 U	82	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	20 U	82	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	20 U	82	20	ug/kg	
218-01-9	Chrysene	100 U	410	100	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	20 U	82	20	ug/kg	
206-44-0	Fluoranthene	100 U	410	100	ug/kg	
86-73-7	Fluorene	200 U	410	200	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20 U	82	20	ug/kg	
91-20-3	Naphthalene	100 U	410	100	ug/kg	
90-12-0	1-Methylnaphthalene	100 U	410	100	ug/kg	
91-57-6	2-Methylnaphthalene	100 U	410	100	ug/kg	
85-01-8	Phenanthrene	200 U	410	200	ug/kg	
129-00-0	Pyrene	100 U	410	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		49-124%
92-94-4	p-Terphenyl	81%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SS-2-4	<b>Date Sampled:</b>	08/10/05
<b>Lab Sample ID:</b>	F34000-5	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	79.5
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.68	0.62	0.37	mg/kg	1	08/16/05	08/17/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4500

(2) Prep QC Batch: MP8445

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-5	
<b>Lab Sample ID:</b> F34000-6	<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8151 SW846 3550B	<b>Percent Solids:</b> 91.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	GG23596.D	1	08/25/05	ATX	08/19/05	T:OP4918	T:GGG746
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

### Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	15 U	37	15	ug/kg	
93-72-1	2,4,5-TP (Silvex)	13 U	15	13	ug/kg	
93-76-5	2,4,5-T	3.7 U	7.3	3.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	73%		17-165%

(a) Analysis performed at Accutest Laboratories, Houston, TX.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-5-2		
<b>Lab Sample ID:</b> F34000-7		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 97.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE034011.D	1	08/18/05	MRE	08/16/05	OP14136	GEE1320
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.3 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	160 U	660	160	ug/kg	
208-96-8	Acenaphthylene	160 U	660	160	ug/kg	
120-12-7	Anthracene	160 U	330	160	ug/kg	
56-55-3	Benzo(a)anthracene	82 U	330	82	ug/kg	
50-32-8	Benzo(a)pyrene	16 U	66	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	16 U	66	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	16 U	66	16	ug/kg	
207-08-9	Benzo(k)fluoranthene	16 U	66	16	ug/kg	
218-01-9	Chrysene	82 U	330	82	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	16 U	66	16	ug/kg	
206-44-0	Fluoranthene	82 U	330	82	ug/kg	
86-73-7	Fluorene	160 U	330	160	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	16 U	66	16	ug/kg	
91-20-3	Naphthalene	82 U	330	82	ug/kg	
90-12-0	1-Methylnaphthalene	82 U	330	82	ug/kg	
91-57-6	2-Methylnaphthalene	82 U	330	82	ug/kg	
85-01-8	Phenanthrene	160 U	330	160	ug/kg	
129-00-0	Pyrene	82 U	330	82	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		49-124%
92-94-4	p-Terphenyl	87%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-5-2	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-7	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 97.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.49 I	0.50	0.30	mg/kg	1	08/16/05	08/17/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4500

(2) Prep QC Batch: MP8445

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-5-4		
<b>Lab Sample ID:</b> F34000-8		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 97.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE034012.D	1	08/18/05	MRE	08/16/05	OP14136	GEE1320
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.3 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	160 U	660	160	ug/kg	
208-96-8	Acenaphthylene	160 U	660	160	ug/kg	
120-12-7	Anthracene	160 U	330	160	ug/kg	
56-55-3	Benzo(a)anthracene	82 U	330	82	ug/kg	
50-32-8	Benzo(a)pyrene	16 U	66	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	16 U	66	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	16 U	66	16	ug/kg	
207-08-9	Benzo(k)fluoranthene	16 U	66	16	ug/kg	
218-01-9	Chrysene	82 U	330	82	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	16 U	66	16	ug/kg	
206-44-0	Fluoranthene	82 U	330	82	ug/kg	
86-73-7	Fluorene	160 U	330	160	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	16 U	66	16	ug/kg	
91-20-3	Naphthalene	82 U	330	82	ug/kg	
90-12-0	1-Methylnaphthalene	82 U	330	82	ug/kg	
91-57-6	2-Methylnaphthalene	82 U	330	82	ug/kg	
85-01-8	Phenanthrene	160 U	330	160	ug/kg	
129-00-0	Pyrene	82 U	330	82	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		49-124%
92-94-4	p-Terphenyl	82%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-5-4	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-8	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 97.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.46 I	0.49	0.29	mg/kg	1	08/16/05	08/17/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4500

(2) Prep QC Batch: MP8445

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-8		
<b>Lab Sample ID:</b> F34000-9		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8151 SW846 3550B		<b>Percent Solids:</b> 83.3
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	GG23599.D	1	08/25/05	ATX	08/19/05	T:OP4918	T:GGG746
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2		

### Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	16 U	40	16	ug/kg	
93-72-1	2,4,5-TP (Silvex)	14 U	16	14	ug/kg	
93-76-5	2,4,5-T	4.0 U	8.0	4.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	104%		17-165%

(a) Analysis performed at Accutest Laboratories, Houston, TX.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

### Report of Analysis

<b>Client Sample ID:</b> SS-8-2		
<b>Lab Sample ID:</b> F34000-10		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 94.5
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE034013.D	1	08/18/05	MRE	08/16/05	OP14136	GEE1320
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.9 g	5.0 ml
Run #2		

#### Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	680	170	ug/kg	
208-96-8	Acenaphthylene	170 U	680	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	86 U	340	86	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	68	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	68	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	68	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	68	17	ug/kg	
218-01-9	Chrysene	86 U	340	86	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	68	17	ug/kg	
206-44-0	Fluoranthene	86 U	340	86	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	68	17	ug/kg	
91-20-3	Naphthalene	86 U	340	86	ug/kg	
90-12-0	1-Methylnaphthalene	86 U	340	86	ug/kg	
91-57-6	2-Methylnaphthalene	86 U	340	86	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	86 U	340	86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		49-124%
92-94-4	p-Terphenyl	89%		56-141%

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-8-2	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-10	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 94.5
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.51 I	0.53	0.32	mg/kg	1	08/16/05	08/17/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4500

(2) Prep QC Batch: MP8445

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-8-4		
<b>Lab Sample ID:</b> F34000-11		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 93.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE034014.D	1	08/18/05	MRE	08/16/05	OP14136	GEE1320
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	29.9 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	180 U	720	180	ug/kg	
208-96-8	Acenaphthylene	180 U	720	180	ug/kg	
120-12-7	Anthracene	180 U	360	180	ug/kg	
56-55-3	Benzo(a)anthracene	90 U	360	90	ug/kg	
50-32-8	Benzo(a)pyrene	18 U	72	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	18 U	72	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	18 U	72	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	18 U	72	18	ug/kg	
218-01-9	Chrysene	90 U	360	90	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	18 U	72	18	ug/kg	
206-44-0	Fluoranthene	90 U	360	90	ug/kg	
86-73-7	Fluorene	180 U	360	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	18 U	72	18	ug/kg	
91-20-3	Naphthalene	90 U	360	90	ug/kg	
90-12-0	1-Methylnaphthalene	90 U	360	90	ug/kg	
91-57-6	2-Methylnaphthalene	90 U	360	90	ug/kg	
85-01-8	Phenanthrene	180 U	360	180	ug/kg	
129-00-0	Pyrene	90 U	360	90	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		49-124%
92-94-4	p-Terphenyl	85%		56-141%

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-8-4	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-11	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 93.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.71	0.52	0.31	mg/kg	1	08/16/05	08/17/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4500

(2) Prep QC Batch: MP8445

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-11		<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-12		<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 75.1
<b>Method:</b> SW846 8151 SW846 3550B		
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	GG23591.D	1	08/25/05	ATX	08/19/05	T:OP4918	T:GGG746
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

### Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	18 U	44	18	ug/kg	
93-72-1	2,4,5-TP (Silvex)	15 U	18	15	ug/kg	
93-76-5	2,4,5-T	4.4 U	8.8	4.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	103%		17-165%

(a) Analysis performed at Accutest Laboratories, Houston, TX.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-11-2		
<b>Lab Sample ID:</b> F34000-13		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 94.8
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE034015.D	1	08/18/05	MRE	08/16/05	OP14136	GEE1320
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.9 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	680	170	ug/kg	
208-96-8	Acenaphthylene	170 U	680	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	85 U	340	85	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	68	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	68	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	68	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	68	17	ug/kg	
218-01-9	Chrysene	85 U	340	85	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	68	17	ug/kg	
206-44-0	Fluoranthene	85 U	340	85	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	68	17	ug/kg	
91-20-3	Naphthalene	85 U	340	85	ug/kg	
90-12-0	1-Methylnaphthalene	85 U	340	85	ug/kg	
91-57-6	2-Methylnaphthalene	85 U	340	85	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	85 U	340	85	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		49-124%
92-94-4	p-Terphenyl	86%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-11-2	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-13	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 94.8
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.5	0.53	0.32	mg/kg	1	08/16/05	08/17/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4500

(2) Prep QC Batch: MP8445

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-11-4		
<b>Lab Sample ID:</b> F34000-14		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 90.5
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE034016.D	1	08/18/05	MRE	08/16/05	OP14136	GEE1320
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.7 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	180 U	720	180	ug/kg	
208-96-8	Acenaphthylene	180 U	720	180	ug/kg	
120-12-7	Anthracene	180 U	360	180	ug/kg	
56-55-3	Benzo(a)anthracene	90 U	360	90	ug/kg	
50-32-8	Benzo(a)pyrene	18 U	72	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	18 U	72	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	18 U	72	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	18 U	72	18	ug/kg	
218-01-9	Chrysene	90 U	360	90	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	18 U	72	18	ug/kg	
206-44-0	Fluoranthene	90 U	360	90	ug/kg	
86-73-7	Fluorene	180 U	360	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	18 U	72	18	ug/kg	
91-20-3	Naphthalene	90 U	360	90	ug/kg	
90-12-0	1-Methylnaphthalene	90 U	360	90	ug/kg	
91-57-6	2-Methylnaphthalene	90 U	360	90	ug/kg	
85-01-8	Phenanthrene	180 U	360	180	ug/kg	
129-00-0	Pyrene	90 U	360	90	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		49-124%
92-94-4	p-Terphenyl	86%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-11-4	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-14	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 90.5
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.6	0.55	0.33	mg/kg	1	08/16/05	08/17/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4500

(2) Prep QC Batch: MP8445

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-14		<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-15		<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 76.8
<b>Method:</b> SW846 8151 SW846 3550B		
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	GG23592.D	1	08/25/05	ATX	08/19/05	T:OP4918	T:GGG746
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

### Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	17 U	43	17	ug/kg	
93-72-1	2,4,5-TP (Silvex)	15 U	17	15	ug/kg	
93-76-5	2,4,5-T	4.3 U	8.7	4.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	99%		17-165%

(a) Analysis performed at Accutest Laboratories, Houston, TX.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b> SS-14-2		
<b>Lab Sample ID:</b> F34000-16		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 91.7
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE034017.D	1	08/18/05	MRE	08/16/05	OP14136	GEE1320
Run #2							

	Initial Weight	Final Volume
Run #1	31.8 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	690	170	ug/kg	
208-96-8	Acenaphthylene	170 U	690	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	86 U	340	86	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	69	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	69	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	69	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	69	17	ug/kg	
218-01-9	Chrysene	86 U	340	86	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	69	17	ug/kg	
206-44-0	Fluoranthene	86 U	340	86	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	69	17	ug/kg	
91-20-3	Naphthalene	86 U	340	86	ug/kg	
90-12-0	1-Methylnaphthalene	86 U	340	86	ug/kg	
91-57-6	2-Methylnaphthalene	86 U	340	86	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	86 U	340	86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		49-124%
92-94-4	p-Terphenyl	85%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-14-2	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-16	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 91.7
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	2.1	0.55	0.33	mg/kg	1	08/16/05	08/17/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4500

(2) Prep QC Batch: MP8445

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-14-4		
<b>Lab Sample ID:</b> F34000-17		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 77.5
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE034211.D	1	08/26/05	MRE	08/22/05	OP14194	GEE1327
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.6 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	210 U	840	210	ug/kg	
208-96-8	Acenaphthylene	210 U	840	210	ug/kg	
120-12-7	Anthracene	210 U	420	210	ug/kg	
56-55-3	Benzo(a)anthracene	110 U	420	110	ug/kg	
50-32-8	Benzo(a)pyrene	21 U	84	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	21 U	84	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	21 U	84	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	21 U	84	21	ug/kg	
218-01-9	Chrysene	110 U	420	110	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	21 U	84	21	ug/kg	
206-44-0	Fluoranthene	110 U	420	110	ug/kg	
86-73-7	Fluorene	210 U	420	210	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	21 U	84	21	ug/kg	
91-20-3	Naphthalene	110 U	420	110	ug/kg	
90-12-0	1-Methylnaphthalene	110 U	420	110	ug/kg	
91-57-6	2-Methylnaphthalene	110 U	420	110	ug/kg	
85-01-8	Phenanthrene	210 U	420	210	ug/kg	
129-00-0	Pyrene	110 U	420	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		49-124%
92-94-4	p-Terphenyl	101%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-14-4	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-17	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 77.5
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.62 I	0.65	0.39	mg/kg	1	08/16/05	08/17/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4500

(2) Prep QC Batch: MP8445

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-17		
<b>Lab Sample ID:</b> F34000-18		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8151 SW846 3550B		<b>Percent Solids:</b> 67.7
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	GG23593.D	1	08/25/05	ATX	08/19/05	T:OP4918	T:GGG746
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	10.0 ml
Run #2		

### Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	20 U	49	20	ug/kg	
93-72-1	2,4,5-TP (Silvex)	17 U	20	17	ug/kg	
93-76-5	2,4,5-T	4.9 U	9.8	4.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	107%		17-165%

(a) Analysis performed at Accutest Laboratories, Houston, TX.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-17-2	
<b>Lab Sample ID:</b> F34000-19	<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B	<b>Percent Solids:</b> 82.2
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	EE034034.D	20	08/19/05	MRE	08/16/05	OP14136	GEE1321
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.6 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	4000 U	16000	4000	ug/kg	
208-96-8	Acenaphthylene	4000 U	16000	4000	ug/kg	
120-12-7	Anthracene	4000 U	8000	4000	ug/kg	
56-55-3	Benzo(a)anthracene	14500	8000	2000	ug/kg	
50-32-8	Benzo(a)pyrene	19600	1600	400	ug/kg	
205-99-2	Benzo(b)fluoranthene	26700	1600	400	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17700	1600	400	ug/kg	
207-08-9	Benzo(k)fluoranthene	16900	1600	400	ug/kg	
218-01-9	Chrysene	11200	8000	2000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	3610	1600	400	ug/kg	
206-44-0	Fluoranthene	16600	8000	2000	ug/kg	
86-73-7	Fluorene	4000 U	8000	4000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	16300	1600	400	ug/kg	
91-20-3	Naphthalene	2000 U	8000	2000	ug/kg	
90-12-0	1-Methylnaphthalene	2000 U	8000	2000	ug/kg	
91-57-6	2-Methylnaphthalene	2000 U	8000	2000	ug/kg	
85-01-8	Phenanthrene	4000 U	8000	4000	ug/kg	
129-00-0	Pyrene	23900	8000	2000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% <sup>b</sup>		49-124%
92-94-4	p-Terphenyl	0% <sup>b</sup>		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

(b) Outside control limits due to dilution.

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result >= MDL but < RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-17-2	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-19	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 82.2
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	2.1	0.60	0.36	mg/kg	1	08/16/05	08/17/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4500

(2) Prep QC Batch: MP8445

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b>	SS-17-4	<b>Date Sampled:</b>	08/10/05
<b>Lab Sample ID:</b>	F34000-20	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	77.7
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	EE034033.D	1	08/19/05	MRE	08/16/05	OP14136	GEE1321
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.9 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	210 U	830	210	ug/kg	
208-96-8	Acenaphthylene	210 U	830	210	ug/kg	
120-12-7	Anthracene	210 U	420	210	ug/kg	
56-55-3	Benzo(a)anthracene	462	420	100	ug/kg	
50-32-8	Benzo(a)pyrene	869	83	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	1080	83	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	978	83	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	670	83	21	ug/kg	
218-01-9	Chrysene	431	420	100	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	145	83	21	ug/kg	
206-44-0	Fluoranthene	441	420	100	ug/kg	
86-73-7	Fluorene	210 U	420	210	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	787	83	21	ug/kg	
91-20-3	Naphthalene	100 U	420	100	ug/kg	
90-12-0	1-Methylnaphthalene	100 U	420	100	ug/kg	
91-57-6	2-Methylnaphthalene	100 U	420	100	ug/kg	
85-01-8	Phenanthrene	210 U	420	210	ug/kg	
129-00-0	Pyrene	721	420	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		49-124%
92-94-4	p-Terphenyl	87%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result >= MDL but < RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-17-4	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-20	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 77.7
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.39 U	0.64	0.39	mg/kg	1	08/16/05	08/17/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4500

(2) Prep QC Batch: MP8445

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-18	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-21	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 81.3
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.6	0.62	0.37	mg/kg	1	08/16/05	08/17/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4500

(2) Prep QC Batch: MP8445

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-18-2	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-22	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 93.4
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.67	0.54	0.32	mg/kg	1	08/16/05	08/17/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4500

(2) Prep QC Batch: MP8445

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-18-4	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-23	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 93.7
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.82	0.53	0.32	mg/kg	1	08/16/05	08/17/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4500

(2) Prep QC Batch: MP8445

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b>	SS-20	<b>Date Sampled:</b>	08/11/05
<b>Lab Sample ID:</b>	F34000-24	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	66.4
<b>Method:</b>	SW846 8151 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	GG23594.D	1	08/25/05	ATX	08/19/05	T:OP4918	T:GGG746
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

### Herbicide List

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	20 U	50	20	ug/kg	
93-72-1	2,4,5-TP (Silvex)	18 U	20	18	ug/kg	
93-76-5	2,4,5-T	5.0 U	10	5.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	129%		17-165%

(a) Analysis performed at Accutest Laboratories, Houston, TX.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SS-20-2	<b>Date Sampled:</b>	08/11/05
<b>Lab Sample ID:</b>	F34000-25	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	73.8
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	EE034032.D	1	08/19/05	MRE	08/16/05	OP14136	GEE1321
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.6 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	210 U	860	210	ug/kg	
208-96-8	Acenaphthylene	210 U	860	210	ug/kg	
120-12-7	Anthracene	210 U	430	210	ug/kg	
56-55-3	Benzo(a)anthracene	176	430	110	ug/kg	I
50-32-8	Benzo(a)pyrene	278	86	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	348	86	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	347	86	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	208	86	21	ug/kg	
218-01-9	Chrysene	135	430	110	ug/kg	I
53-70-3	Dibenzo(a,h)anthracene	52.6	86	21	ug/kg	I
206-44-0	Fluoranthene	183	430	110	ug/kg	I
86-73-7	Fluorene	210 U	430	210	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	246	86	21	ug/kg	
91-20-3	Naphthalene	110 U	430	110	ug/kg	
90-12-0	1-Methylnaphthalene	110 U	430	110	ug/kg	
91-57-6	2-Methylnaphthalene	110 U	430	110	ug/kg	
85-01-8	Phenanthrene	210 U	430	210	ug/kg	
129-00-0	Pyrene	248	430	110	ug/kg	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		49-124%
92-94-4	p-Terphenyl	85%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-20-2	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-25	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 73.8
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.41 U	0.68	0.41	mg/kg	1	08/22/05	08/23/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4511

(2) Prep QC Batch: MP8473

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b> SS-20-4		
<b>Lab Sample ID:</b> F34000-26		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 92.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE034031.D	1	08/19/05	MRE	08/16/05	OP14136	GEE1321
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.9 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	180 U	700	180	ug/kg	
208-96-8	Acenaphthylene	180 U	700	180	ug/kg	
120-12-7	Anthracene	180 U	350	180	ug/kg	
56-55-3	Benzo(a)anthracene	88 U	350	88	ug/kg	
50-32-8	Benzo(a)pyrene	18 U	70	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	18 U	70	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	18 U	70	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	18 U	70	18	ug/kg	
218-01-9	Chrysene	88 U	350	88	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	18 U	70	18	ug/kg	
206-44-0	Fluoranthene	88 U	350	88	ug/kg	
86-73-7	Fluorene	180 U	350	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	18 U	70	18	ug/kg	
91-20-3	Naphthalene	88 U	350	88	ug/kg	
90-12-0	1-Methylnaphthalene	88 U	350	88	ug/kg	
91-57-6	2-Methylnaphthalene	88 U	350	88	ug/kg	
85-01-8	Phenanthrene	180 U	350	180	ug/kg	
129-00-0	Pyrene	88 U	350	88	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		49-124%
92-94-4	p-Terphenyl	96%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-20-4	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-26	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 92.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.31 U	0.51	0.31	mg/kg	1	08/22/05	08/23/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4511

(2) Prep QC Batch: MP8473

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-23-2		
<b>Lab Sample ID:</b> F34000-27		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 96.5
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE034030.D	1	08/19/05	MRE	08/16/05	OP14136	GEE1321
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.3 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	660	170	ug/kg	
208-96-8	Acenaphthylene	170 U	660	170	ug/kg	
120-12-7	Anthracene	170 U	330	170	ug/kg	
56-55-3	Benzo(a)anthracene	83 U	330	83	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	66	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	66	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	66	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	66	17	ug/kg	
218-01-9	Chrysene	83 U	330	83	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	66	17	ug/kg	
206-44-0	Fluoranthene	83 U	330	83	ug/kg	
86-73-7	Fluorene	170 U	330	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	66	17	ug/kg	
91-20-3	Naphthalene	83 U	330	83	ug/kg	
90-12-0	1-Methylnaphthalene	83 U	330	83	ug/kg	
91-57-6	2-Methylnaphthalene	83 U	330	83	ug/kg	
85-01-8	Phenanthrene	170 U	330	170	ug/kg	
129-00-0	Pyrene	83 U	330	83	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%		49-124%
92-94-4	p-Terphenyl	96%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b> SS-23-4		
<b>Lab Sample ID:</b> F34000-28		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 96.3
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007571.D	1	08/24/05	MRE	08/16/05	OP14140	GPP279
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	690	170	ug/kg	
208-96-8	Acenaphthylene	170 U	690	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	86 U	340	86	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	69	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	69	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	69	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	69	17	ug/kg	
218-01-9	Chrysene	86 U	340	86	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	69	17	ug/kg	
206-44-0	Fluoranthene	86 U	340	86	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	69	17	ug/kg	
91-20-3	Naphthalene	86 U	340	86	ug/kg	
90-12-0	1-Methylnaphthalene	86 U	340	86	ug/kg	
91-57-6	2-Methylnaphthalene	86 U	340	86	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	86 U	340	86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		49-124%
92-94-4	p-Terphenyl	87%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b>	SS-26-2	<b>Date Sampled:</b>	08/11/05
<b>Lab Sample ID:</b>	F34000-29	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	96.6
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007572.D	1	08/24/05	MRE	08/16/05	OP14140	GPP279
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.4 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	680	170	ug/kg	
208-96-8	Acenaphthylene	170 U	680	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	85 U	340	85	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	68	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	68	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	68	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	68	17	ug/kg	
218-01-9	Chrysene	85 U	340	85	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	68	17	ug/kg	
206-44-0	Fluoranthene	85 U	340	85	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	68	17	ug/kg	
91-20-3	Naphthalene	85 U	340	85	ug/kg	
90-12-0	1-Methylnaphthalene	85 U	340	85	ug/kg	
91-57-6	2-Methylnaphthalene	85 U	340	85	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	85 U	340	85	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		49-124%
92-94-4	p-Terphenyl	87%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b>	SS-26-4	<b>Date Sampled:</b>	08/11/05
<b>Lab Sample ID:</b>	F34000-30	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	94.6
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007574.D	1	08/24/05	MRE	08/16/05	OP14140	GPP279
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.7 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	690	170	ug/kg	
208-96-8	Acenaphthylene	170 U	690	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	86 U	340	86	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	69	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	69	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	69	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	69	17	ug/kg	
218-01-9	Chrysene	86 U	340	86	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	69	17	ug/kg	
206-44-0	Fluoranthene	86 U	340	86	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	69	17	ug/kg	
91-20-3	Naphthalene	86 U	340	86	ug/kg	
90-12-0	1-Methylnaphthalene	86 U	340	86	ug/kg	
91-57-6	2-Methylnaphthalene	86 U	340	86	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	86 U	340	86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		49-124%
92-94-4	p-Terphenyl	89%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b>	SS-38-2	<b>Date Sampled:</b>	08/11/05
<b>Lab Sample ID:</b>	F34000-31	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	96.3
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007575.D	1	08/24/05	MRE	08/16/05	OP14140	GPP279
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.7 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	680	170	ug/kg	
208-96-8	Acenaphthylene	170 U	680	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	85 U	340	85	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	68	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	68	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	68	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	68	17	ug/kg	
218-01-9	Chrysene	85 U	340	85	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	68	17	ug/kg	
206-44-0	Fluoranthene	85 U	340	85	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	68	17	ug/kg	
91-20-3	Naphthalene	85 U	340	85	ug/kg	
90-12-0	1-Methylnaphthalene	85 U	340	85	ug/kg	
91-57-6	2-Methylnaphthalene	85 U	340	85	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	85 U	340	85	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		49-124%
92-94-4	p-Terphenyl	88%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-38-4		
<b>Lab Sample ID:</b> F34000-32		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 96.2
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	PP007576.D	1	08/24/05	MRE	08/16/05	OP14140	GPP279
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	690	170	ug/kg	
208-96-8	Acenaphthylene	170 U	690	170	ug/kg	
120-12-7	Anthracene	170 U	350	170	ug/kg	
56-55-3	Benzo(a)anthracene	86 U	350	86	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	69	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	18.1	69	17	ug/kg	I
191-24-2	Benzo(g,h,i)perylene	17 U	69	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	69	17	ug/kg	
218-01-9	Chrysene	86 U	350	86	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	69	17	ug/kg	
206-44-0	Fluoranthene	86 U	350	86	ug/kg	
86-73-7	Fluorene	170 U	350	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	69	17	ug/kg	
91-20-3	Naphthalene	86 U	350	86	ug/kg	
90-12-0	1-Methylnaphthalene	86 U	350	86	ug/kg	
91-57-6	2-Methylnaphthalene	86 U	350	86	ug/kg	
85-01-8	Phenanthrene	170 U	350	170	ug/kg	
129-00-0	Pyrene	86 U	350	86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		49-124%
92-94-4	p-Terphenyl	93%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-40	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-33	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 90.3
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	15.6	0.55	0.33	mg/kg	1	08/22/05	08/23/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4511

(2) Prep QC Batch: MP8473

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-40-2	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-34	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 95.1
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.64	0.53	0.32	mg/kg	1	08/22/05	08/23/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4511

(2) Prep QC Batch: MP8473

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-40-4	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-35	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 94.8
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.32 U	0.53	0.32	mg/kg	1	08/22/05	08/23/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4511

(2) Prep QC Batch: MP8473

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b>	SS-41	<b>Date Sampled:</b>	08/10/05
<b>Lab Sample ID:</b>	F34000-36	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	90.8
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007577.D	1	08/24/05	MRE	08/16/05	OP14140	GPP279
Run #2 <sup>a</sup>	PP007700.D	4	08/30/05	MRE	08/26/05	OP14244	GPP283

Run #	Initial Weight	Final Volume
Run #1	30.4 g	5.0 ml
Run #2	30.5 g	5.0 ml

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	720 U <sup>b</sup>	2900	720	ug/kg	
208-96-8	Acenaphthylene	720 U <sup>b</sup>	2900	720	ug/kg	
120-12-7	Anthracene	720 U <sup>b</sup>	1400	720	ug/kg	
56-55-3	Benzo(a)anthracene <sup>c</sup>	1670 <sup>b</sup>	1400	360	ug/kg	
50-32-8	Benzo(a)pyrene <sup>c</sup>	2590 <sup>b</sup>	290	72	ug/kg	
205-99-2	Benzo(b)fluoranthene <sup>c</sup>	3090 <sup>b</sup>	290	72	ug/kg	
191-24-2	Benzo(g,h,i)perylene <sup>c</sup>	1850 <sup>b</sup>	290	72	ug/kg	
207-08-9	Benzo(k)fluoranthene <sup>c</sup>	1660 <sup>b</sup>	290	72	ug/kg	
218-01-9	Chrysene <sup>c</sup>	1580 <sup>b</sup>	1400	360	ug/kg	
53-70-3	Dibenzo(a,h)anthracene <sup>c</sup>	490 <sup>b</sup>	290	72	ug/kg	
206-44-0	Fluoranthene <sup>c</sup>	1800 <sup>b</sup>	1400	360	ug/kg	
86-73-7	Fluorene	720 U <sup>b</sup>	1400	720	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene <sup>c</sup>	2410 <sup>b</sup>	290	72	ug/kg	
91-20-3	Naphthalene	360 U <sup>b</sup>	1400	360	ug/kg	
90-12-0	1-Methylnaphthalene	360 U <sup>b</sup>	1400	360	ug/kg	
91-57-6	2-Methylnaphthalene	360 U <sup>b</sup>	1400	360	ug/kg	
85-01-8	Phenanthrene	720 U <sup>b</sup>	1400	720	ug/kg	
129-00-0	Pyrene <sup>c</sup>	2620 <sup>b</sup>	1400	360	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	31% <sup>d</sup>	85%	49-124%
92-94-4	p-Terphenyl	32% <sup>d</sup>	88%	56-141%

(a) Re-extract results reported because they were significantly higher than original results. Re-extracted beyond hold time.

(b) Result is from Run# 2

(c) All hits confirmed by spectral match using a diode array detector. Dilution required due to matrix interference.

(d) Outside control limits due to matrix interference. Confirmed by re-extraction and reanalysis.

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result >= MDL but < RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-41-2		
<b>Lab Sample ID:</b> F34000-37		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 93.3
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007599.D	1	08/25/05	MRE	08/16/05	OP14140	GPP280
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.4 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	180 U	710	180	ug/kg	
208-96-8	Acenaphthylene	180 U	710	180	ug/kg	
120-12-7	Anthracene	180 U	350	180	ug/kg	
56-55-3	Benzo(a)anthracene	88 U	350	88	ug/kg	
50-32-8	Benzo(a)pyrene	18 U	71	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	18 U	71	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	18 U	71	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	18 U	71	18	ug/kg	
218-01-9	Chrysene	88 U	350	88	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	18 U	71	18	ug/kg	
206-44-0	Fluoranthene	88 U	350	88	ug/kg	
86-73-7	Fluorene	180 U	350	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	18 U	71	18	ug/kg	
91-20-3	Naphthalene	88 U	350	88	ug/kg	
90-12-0	1-Methylnaphthalene	88 U	350	88	ug/kg	
91-57-6	2-Methylnaphthalene	88 U	350	88	ug/kg	
85-01-8	Phenanthrene	180 U	350	180	ug/kg	
129-00-0	Pyrene	88 U	350	88	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		49-124%
92-94-4	p-Terphenyl	92%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b>	SS-41-4	<b>Date Sampled:</b>	08/10/05
<b>Lab Sample ID:</b>	F34000-38	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	94.5
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007579.D	1	08/24/05	MRE	08/16/05	OP14140	GPP279
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.9 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	680	170	ug/kg	
208-96-8	Acenaphthylene	170 U	680	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	86 U	340	86	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	68	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	68	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	68	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	68	17	ug/kg	
218-01-9	Chrysene	86 U	340	86	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	68	17	ug/kg	
206-44-0	Fluoranthene	86 U	340	86	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	68	17	ug/kg	
91-20-3	Naphthalene	86 U	340	86	ug/kg	
90-12-0	1-Methylnaphthalene	86 U	340	86	ug/kg	
91-57-6	2-Methylnaphthalene	86 U	340	86	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	86 U	340	86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		49-124%
92-94-4	p-Terphenyl	89%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b> SS-42		
<b>Lab Sample ID:</b> F34000-39		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 92.3
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	PP007580.D	1	08/24/05	MRE	08/16/05	OP14140	GPP279
Run #2							

	Initial Weight	Final Volume
Run #1	31.8 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	680	170	ug/kg	
208-96-8	Acenaphthylene	170 U	680	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	413	340	85	ug/kg	
50-32-8	Benzo(a)pyrene	374	68	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	638	68	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	400	68	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	373	68	17	ug/kg	
218-01-9	Chrysene	512	340	85	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	103	68	17	ug/kg	
206-44-0	Fluoranthene	645	340	85	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	441	68	17	ug/kg	
91-20-3	Naphthalene	85 U	340	85	ug/kg	
90-12-0	1-Methylnaphthalene	85 U	340	85	ug/kg	
91-57-6	2-Methylnaphthalene	85 U	340	85	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	612	340	85	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		49-124%
92-94-4	p-Terphenyl	79%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-42	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-39	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 92.3
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	7.7	0.52	0.31	mg/kg	1	08/22/05	08/23/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4511

(2) Prep QC Batch: MP8473

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b>	SS-42-2	<b>Date Sampled:</b>	08/10/05
<b>Lab Sample ID:</b>	F34000-40	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	95.4
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007600.D	1	08/25/05	MRE	08/16/05	OP14140	GPP280
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.7 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	660	170	ug/kg	
208-96-8	Acenaphthylene	170 U	660	170	ug/kg	
120-12-7	Anthracene	170 U	330	170	ug/kg	
56-55-3	Benzo(a)anthracene	83 U	330	83	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	66	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	66	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	66	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	66	17	ug/kg	
218-01-9	Chrysene	83 U	330	83	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	66	17	ug/kg	
206-44-0	Fluoranthene	83 U	330	83	ug/kg	
86-73-7	Fluorene	170 U	330	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	66	17	ug/kg	
91-20-3	Naphthalene	83 U	330	83	ug/kg	
90-12-0	1-Methylnaphthalene	83 U	330	83	ug/kg	
91-57-6	2-Methylnaphthalene	83 U	330	83	ug/kg	
85-01-8	Phenanthrene	170 U	330	170	ug/kg	
129-00-0	Pyrene	83 U	330	83	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		49-124%
92-94-4	p-Terphenyl	88%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-42-2	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-40	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 95.4
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.31 U	0.52	0.31	mg/kg	1	08/22/05	08/23/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4511

(2) Prep QC Batch: MP8473

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b>	SS-42-4	<b>Date Sampled:</b>	08/10/05
<b>Lab Sample ID:</b>	F34000-41	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	77.0
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007582.D	1	08/24/05	MRE	08/16/05	OP14140	GPP279
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	220 U	870	220	ug/kg	
208-96-8	Acenaphthylene	220 U	870	220	ug/kg	
120-12-7	Anthracene	220 U	430	220	ug/kg	
56-55-3	Benzo(a)anthracene	110 U	430	110	ug/kg	
50-32-8	Benzo(a)pyrene	22 U	87	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	22 U	87	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	22 U	87	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	22 U	87	22	ug/kg	
218-01-9	Chrysene	110 U	430	110	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	22 U	87	22	ug/kg	
206-44-0	Fluoranthene	110 U	430	110	ug/kg	
86-73-7	Fluorene	220 U	430	220	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	22 U	87	22	ug/kg	
91-20-3	Naphthalene	110 U	430	110	ug/kg	
90-12-0	1-Methylnaphthalene	110 U	430	110	ug/kg	
91-57-6	2-Methylnaphthalene	110 U	430	110	ug/kg	
85-01-8	Phenanthrene	220 U	430	220	ug/kg	
129-00-0	Pyrene	110 U	430	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		49-124%
92-94-4	p-Terphenyl	92%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-42-4	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-41	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 77.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.39 U	0.65	0.39	mg/kg	1	08/22/05	08/23/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4511

(2) Prep QC Batch: MP8473

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b> SS-43		
<b>Lab Sample ID:</b> F34000-42		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 95.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	PP007583.D	1	08/24/05	MRE	08/16/05	OP14140	GPP279
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.6 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	690	170	ug/kg	
208-96-8	Acenaphthylene	170 U	690	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	349	340	86	ug/kg	
50-32-8	Benzo(a)pyrene	592	69	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	957	69	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	610	69	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	545	69	17	ug/kg	
218-01-9	Chrysene	444	340	86	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	157	69	17	ug/kg	
206-44-0	Fluoranthene	563	340	86	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	725	69	17	ug/kg	
91-20-3	Naphthalene	86 U	340	86	ug/kg	
90-12-0	1-Methylnaphthalene	86 U	340	86	ug/kg	
91-57-6	2-Methylnaphthalene	86 U	340	86	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	758	340	86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		49-124%
92-94-4	p-Terphenyl	85%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-43	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-42	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 95.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.95	0.50	0.30	mg/kg	1	08/22/05	08/23/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4511

(2) Prep QC Batch: MP8473

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b> SS-43-2		
<b>Lab Sample ID:</b> F34000-43		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 95.6
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007585.D	1	08/25/05	MRE	08/16/05	OP14140	GPP279
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.4 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	690	170	ug/kg	
208-96-8	Acenaphthylene	170 U	690	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	86 U	340	86	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	69	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	69	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	69	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	69	17	ug/kg	
218-01-9	Chrysene	86 U	340	86	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	69	17	ug/kg	
206-44-0	Fluoranthene	86 U	340	86	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	69	17	ug/kg	
91-20-3	Naphthalene	86 U	340	86	ug/kg	
90-12-0	1-Methylnaphthalene	86 U	340	86	ug/kg	
91-57-6	2-Methylnaphthalene	86 U	340	86	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	86 U	340	86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		49-124%
92-94-4	p-Terphenyl	91%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-43-2	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-43	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 95.6
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.30 U	0.49	0.30	mg/kg	1	08/22/05	08/23/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4511

(2) Prep QC Batch: MP8473

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b>	SS-43-4	<b>Date Sampled:</b>	08/10/05
<b>Lab Sample ID:</b>	F34000-44	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	95.3
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007586.D	1	08/25/05	MRE	08/16/05	OP14140	GPP279
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.1 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	670	170	ug/kg	
208-96-8	Acenaphthylene	170 U	670	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	84 U	340	84	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	67	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	67	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	67	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	67	17	ug/kg	
218-01-9	Chrysene	84 U	340	84	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	67	17	ug/kg	
206-44-0	Fluoranthene	84 U	340	84	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	67	17	ug/kg	
91-20-3	Naphthalene	84 U	340	84	ug/kg	
90-12-0	1-Methylnaphthalene	84 U	340	84	ug/kg	
91-57-6	2-Methylnaphthalene	84 U	340	84	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	84 U	340	84	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		49-124%
92-94-4	p-Terphenyl	93%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-43-4	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-44	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 95.3
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.31 U	0.51	0.31	mg/kg	1	08/22/05	08/23/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4511

(2) Prep QC Batch: MP8473

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b> SS-44		
<b>Lab Sample ID:</b> F34000-45		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 95.2
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	PP007587.D	1	08/25/05	MRE	08/16/05	OP14140	GPP279
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.1 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	680	170	ug/kg	
208-96-8	Acenaphthylene	170 U	680	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	114	340	84	ug/kg	I
50-32-8	Benzo(a)pyrene	136	68	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	210	68	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	169	68	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	112	68	17	ug/kg	
218-01-9	Chrysene	145	340	84	ug/kg	I
53-70-3	Dibenzo(a,h)anthracene	40.8	68	17	ug/kg	I
206-44-0	Fluoranthene	177	340	84	ug/kg	I
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	172	68	17	ug/kg	
91-20-3	Naphthalene	84 U	340	84	ug/kg	
90-12-0	1-Methylnaphthalene	84 U	340	84	ug/kg	
91-57-6	2-Methylnaphthalene	84 U	340	84	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	183	340	84	ug/kg	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		49-124%
92-94-4	p-Terphenyl	92%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-44	
<b>Lab Sample ID:</b> F34000-45	<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/11/05
	<b>Percent Solids:</b> 95.2
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	11.2	0.50	0.30	mg/kg	1	08/22/05	08/23/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4511

(2) Prep QC Batch: MP8473

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b>	SS-44-2	<b>Date Sampled:</b>	08/10/05
<b>Lab Sample ID:</b>	F34000-46	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	95.8
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007601.D	1	08/25/05	MRE	08/16/05	OP14140	GPP280
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	690	170	ug/kg	
208-96-8	Acenaphthylene	170 U	690	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	86 U	340	86	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	69	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	69	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	69	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	69	17	ug/kg	
218-01-9	Chrysene	86 U	340	86	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	69	17	ug/kg	
206-44-0	Fluoranthene	86 U	340	86	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	69	17	ug/kg	
91-20-3	Naphthalene	86 U	340	86	ug/kg	
90-12-0	1-Methylnaphthalene	86 U	340	86	ug/kg	
91-57-6	2-Methylnaphthalene	86 U	340	86	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	86 U	340	86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		49-124%
92-94-4	p-Terphenyl	94%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-44-2	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-46	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 95.8
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.31 U	0.52	0.31	mg/kg	1	08/22/05	08/23/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4511

(2) Prep QC Batch: MP8473

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-44-4		
<b>Lab Sample ID:</b> F34000-47		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 95.7
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007589.D	1	08/25/05	MRE	08/16/05	OP14140	GPP279
Run #2							

	Initial Weight	Final Volume
Run #1	31.6 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	660	170	ug/kg	
208-96-8	Acenaphthylene	170 U	660	170	ug/kg	
120-12-7	Anthracene	170 U	330	170	ug/kg	
56-55-3	Benzo(a)anthracene	83 U	330	83	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	66	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	66	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	66	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	66	17	ug/kg	
218-01-9	Chrysene	83 U	330	83	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	66	17	ug/kg	
206-44-0	Fluoranthene	83 U	330	83	ug/kg	
86-73-7	Fluorene	170 U	330	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	66	17	ug/kg	
91-20-3	Naphthalene	83 U	330	83	ug/kg	
90-12-0	1-Methylnaphthalene	83 U	330	83	ug/kg	
91-57-6	2-Methylnaphthalene	83 U	330	83	ug/kg	
85-01-8	Phenanthrene	170 U	330	170	ug/kg	
129-00-0	Pyrene	83 U	330	83	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		49-124%
92-94-4	p-Terphenyl	90%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-44-4		<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-47		<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 95.7
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.31 U	0.52	0.31	mg/kg	1	08/22/05	08/23/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4511

(2) Prep QC Batch: MP8473

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-45		
<b>Lab Sample ID:</b> F34000-48		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 92.4
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	PP007590.D	1	08/25/05	MRE	08/16/05	OP14140	GPP279
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.1 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	700	170	ug/kg	
208-96-8	Acenaphthylene	170 U	700	170	ug/kg	
120-12-7	Anthracene	170 U	350	170	ug/kg	
56-55-3	Benzo(a)anthracene	87 U	350	87	ug/kg	
50-32-8	Benzo(a)pyrene	93.1	70	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	131	70	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	88.3	70	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	77.3	70	17	ug/kg	
218-01-9	Chrysene	87 U	350	87	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	22.6	70	17	ug/kg	I
206-44-0	Fluoranthene	88.5	350	87	ug/kg	I
86-73-7	Fluorene	170 U	350	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	85.5	70	17	ug/kg	
91-20-3	Naphthalene	87 U	350	87	ug/kg	
90-12-0	1-Methylnaphthalene	87 U	350	87	ug/kg	
91-57-6	2-Methylnaphthalene	87 U	350	87	ug/kg	
85-01-8	Phenanthrene	170 U	350	170	ug/kg	
129-00-0	Pyrene	87.9	350	87	ug/kg	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		49-124%
92-94-4	p-Terphenyl	77%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-45	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-48	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 92.4
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.31 U	0.51	0.31	mg/kg	1	08/22/05	08/23/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4511

(2) Prep QC Batch: MP8473

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b> SS-45-2		
<b>Lab Sample ID:</b> F34000-49		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 93.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	PP007591.D	1	08/25/05	MRE	08/16/05	OP14140	GPP279
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.4 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	180 U	710	180	ug/kg	
208-96-8	Acenaphthylene	180 U	710	180	ug/kg	
120-12-7	Anthracene	180 U	350	180	ug/kg	
56-55-3	Benzo(a)anthracene	88 U	350	88	ug/kg	
50-32-8	Benzo(a)pyrene	27.8	71	18	ug/kg	I
205-99-2	Benzo(b)fluoranthene	46.9	71	18	ug/kg	I
191-24-2	Benzo(g,h,i)perylene	40.7	71	18	ug/kg	I
207-08-9	Benzo(k)fluoranthene	22.5	71	18	ug/kg	I
218-01-9	Chrysene	88 U	350	88	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	18 U	71	18	ug/kg	
206-44-0	Fluoranthene	88 U	350	88	ug/kg	
86-73-7	Fluorene	180 U	350	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	19.3	71	18	ug/kg	I
91-20-3	Naphthalene	88 U	350	88	ug/kg	
90-12-0	1-Methylnaphthalene	88 U	350	88	ug/kg	
91-57-6	2-Methylnaphthalene	88 U	350	88	ug/kg	
85-01-8	Phenanthrene	180 U	350	180	ug/kg	
129-00-0	Pyrene	88 U	350	88	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		49-124%
92-94-4	p-Terphenyl	93%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-45-2	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-49	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 93.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	2.8	0.54	0.32	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b> SS-45-4		
<b>Lab Sample ID:</b> F34000-50		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 95.8
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007592.D	1	08/25/05	MRE	08/16/05	OP14140	GPP279
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.0 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	670	170	ug/kg	
208-96-8	Acenaphthylene	170 U	670	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	84 U	340	84	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	67	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	67	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	67	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	67	17	ug/kg	
218-01-9	Chrysene	84 U	340	84	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	67	17	ug/kg	
206-44-0	Fluoranthene	84 U	340	84	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	67	17	ug/kg	
91-20-3	Naphthalene	84 U	340	84	ug/kg	
90-12-0	1-Methylnaphthalene	84 U	340	84	ug/kg	
91-57-6	2-Methylnaphthalene	84 U	340	84	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	84 U	340	84	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		49-124%
92-94-4	p-Terphenyl	87%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-45-4	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-50	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 95.8
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.41 I	0.49	0.30	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-46		
<b>Lab Sample ID:</b> F34000-51		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 82.5
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	AA026067.D	1	08/24/05	MRE	08/16/05	OP14141	GAA1215
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.2 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	190 U	780	190	ug/kg	
208-96-8	Acenaphthylene	190 U	780	190	ug/kg	
120-12-7	Anthracene	190 U	390	190	ug/kg	
56-55-3	Benzo(a)anthracene	1550	390	97	ug/kg	
50-32-8	Benzo(a)pyrene	2260	78	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	2640	78	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1750	78	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	1260	78	19	ug/kg	
218-01-9	Chrysene	1420	390	97	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	443	78	19	ug/kg	
206-44-0	Fluoranthene	1750	390	97	ug/kg	
86-73-7	Fluorene	190 U	390	190	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	2740	78	19	ug/kg	
91-20-3	Naphthalene	97 U	390	97	ug/kg	
90-12-0	1-Methylnaphthalene	97 U	390	97	ug/kg	
91-57-6	2-Methylnaphthalene	97 U	390	97	ug/kg	
85-01-8	Phenanthrene	265	390	190	ug/kg	I
129-00-0	Pyrene	2200	390	97	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		49-124%
92-94-4	p-Terphenyl	85%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result ≥ MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-46	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-51	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 82.5
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	6.6	0.58	0.35	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-46-2		
<b>Lab Sample ID:</b> F34000-52		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 80.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA026095.D	1	08/25/05	MRE	08/16/05	OP14141	GAA1216
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	210 U	830	210	ug/kg	
208-96-8	Acenaphthylene	210 U	830	210	ug/kg	
120-12-7	Anthracene	210 U	420	210	ug/kg	
56-55-3	Benzo(a)anthracene	100 U	420	100	ug/kg	
50-32-8	Benzo(a)pyrene	21 U	83	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	21 U	83	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	21 U	83	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	21 U	83	21	ug/kg	
218-01-9	Chrysene	100 U	420	100	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	21 U	83	21	ug/kg	
206-44-0	Fluoranthene	100 U	420	100	ug/kg	
86-73-7	Fluorene	210 U	420	210	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	21 U	83	21	ug/kg	
91-20-3	Naphthalene	100 U	420	100	ug/kg	
90-12-0	1-Methylnaphthalene	100 U	420	100	ug/kg	
91-57-6	2-Methylnaphthalene	100 U	420	100	ug/kg	
85-01-8	Phenanthrene	210 U	420	210	ug/kg	
129-00-0	Pyrene	100 U	420	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		49-124%
92-94-4	p-Terphenyl	88%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-46-2	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-52	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 80.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.38 U	0.63	0.38	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b> SS-46-4		
<b>Lab Sample ID:</b> F34000-53		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 80.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA026069.D	1	08/24/05	MRE	08/16/05	OP14141	GAA1215
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	200 U	810	200	ug/kg	
208-96-8	Acenaphthylene	200 U	810	200	ug/kg	
120-12-7	Anthracene	200 U	410	200	ug/kg	
56-55-3	Benzo(a)anthracene	100 U	410	100	ug/kg	
50-32-8	Benzo(a)pyrene	20 U	81	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	20 U	81	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	20 U	81	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	20 U	81	20	ug/kg	
218-01-9	Chrysene	100 U	410	100	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	20 U	81	20	ug/kg	
206-44-0	Fluoranthene	100 U	410	100	ug/kg	
86-73-7	Fluorene	200 U	410	200	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20 U	81	20	ug/kg	
91-20-3	Naphthalene	100 U	410	100	ug/kg	
90-12-0	1-Methylnaphthalene	100 U	410	100	ug/kg	
91-57-6	2-Methylnaphthalene	100 U	410	100	ug/kg	
85-01-8	Phenanthrene	200 U	410	200	ug/kg	
129-00-0	Pyrene	100 U	410	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		49-124%
92-94-4	p-Terphenyl	83%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-46-4	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-53	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 80.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.38 U	0.63	0.38	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b>	SS-47	<b>Date Sampled:</b>	08/10/05
<b>Lab Sample ID:</b>	F34000-54	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	95.7
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	AA026070.D	1	08/24/05	MRE	08/16/05	OP14141	GAA1215
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.7 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	680	170	ug/kg	
208-96-8	Acenaphthylene	170 U	680	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	85 U	340	85	ug/kg	
50-32-8	Benzo(a)pyrene	59.2	68	17	ug/kg	I
205-99-2	Benzo(b)fluoranthene	64.9	68	17	ug/kg	I
191-24-2	Benzo(g,h,i)perylene	47.0	68	17	ug/kg	I
207-08-9	Benzo(k)fluoranthene	47.4	68	17	ug/kg	I
218-01-9	Chrysene	85 U	340	85	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	68	17	ug/kg	
206-44-0	Fluoranthene	85 U	340	85	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	55.1	68	17	ug/kg	I
91-20-3	Naphthalene	85 U	340	85	ug/kg	
90-12-0	1-Methylnaphthalene	85 U	340	85	ug/kg	
91-57-6	2-Methylnaphthalene	85 U	340	85	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	85 U	340	85	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		49-124%
92-94-4	p-Terphenyl	84%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result  $\geq$  MDL but  $<$  RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-47	
<b>Lab Sample ID:</b> F34000-54	<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/11/05
	<b>Percent Solids:</b> 95.7
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	2.4	0.52	0.31	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b> SS-47-2		
<b>Lab Sample ID:</b> F34000-55		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 91.8
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA026071.D	1	08/24/05	MRE	08/16/05	OP14141	GAA1215
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	180 U	720	180	ug/kg	
208-96-8	Acenaphthylene	180 U	720	180	ug/kg	
120-12-7	Anthracene	180 U	360	180	ug/kg	
56-55-3	Benzo(a)anthracene	90 U	360	90	ug/kg	
50-32-8	Benzo(a)pyrene	18 U	72	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	18 U	72	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	18 U	72	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	18 U	72	18	ug/kg	
218-01-9	Chrysene	90 U	360	90	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	18 U	72	18	ug/kg	
206-44-0	Fluoranthene	90 U	360	90	ug/kg	
86-73-7	Fluorene	180 U	360	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	18 U	72	18	ug/kg	
91-20-3	Naphthalene	90 U	360	90	ug/kg	
90-12-0	1-Methylnaphthalene	90 U	360	90	ug/kg	
91-57-6	2-Methylnaphthalene	90 U	360	90	ug/kg	
85-01-8	Phenanthrene	180 U	360	180	ug/kg	
129-00-0	Pyrene	90 U	360	90	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		49-124%
92-94-4	p-Terphenyl	84%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-47-2	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-55	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 91.8
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.83	0.51	0.31	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-47-4		
<b>Lab Sample ID:</b> F34000-56		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 92.2
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	AA026072.D	1	08/24/05	MRE	08/16/05	OP14141	GAA1215
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.2 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	180 U	720	180	ug/kg	
208-96-8	Acenaphthylene	180 U	720	180	ug/kg	
120-12-7	Anthracene	180 U	360	180	ug/kg	
56-55-3	Benzo(a)anthracene	90 U	360	90	ug/kg	
50-32-8	Benzo(a)pyrene	37.2	72	18	ug/kg	I
205-99-2	Benzo(b)fluoranthene	41.6	72	18	ug/kg	I
191-24-2	Benzo(g,h,i)perylene	29.2	72	18	ug/kg	I
207-08-9	Benzo(k)fluoranthene	19.0	72	18	ug/kg	I
218-01-9	Chrysene	90 U	360	90	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	18 U	72	18	ug/kg	
206-44-0	Fluoranthene	90 U	360	90	ug/kg	
86-73-7	Fluorene	180 U	360	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	30.0	72	18	ug/kg	I
91-20-3	Naphthalene	90 U	360	90	ug/kg	
90-12-0	1-Methylnaphthalene	90 U	360	90	ug/kg	
91-57-6	2-Methylnaphthalene	90 U	360	90	ug/kg	
85-01-8	Phenanthrene	180 U	360	180	ug/kg	
129-00-0	Pyrene	90 U	360	90	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		49-124%
92-94-4	p-Terphenyl	86%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result  $\geq$  MDL but  $<$  RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-47-4	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-56	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 92.2
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.58	0.54	0.33	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-48		
<b>Lab Sample ID:</b> F34000-57		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 87.1
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	AA026074.D	1	08/24/05	MRE	08/16/05	OP14141	GAA1215
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.2 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	190 U	760	190	ug/kg	
208-96-8	Acenaphthylene	190 U	760	190	ug/kg	
120-12-7	Anthracene	190 U	380	190	ug/kg	
56-55-3	Benzo(a)anthracene	1750	380	95	ug/kg	
50-32-8	Benzo(a)pyrene	1940	76	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	2350	76	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	998	76	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	1030	76	19	ug/kg	
218-01-9	Chrysene	1420	380	95	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	235	76	19	ug/kg	
206-44-0	Fluoranthene	1760	380	95	ug/kg	
86-73-7	Fluorene	190 U	380	190	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	1880	76	19	ug/kg	
91-20-3	Naphthalene	95 U	380	95	ug/kg	
90-12-0	1-Methylnaphthalene	95 U	380	95	ug/kg	
91-57-6	2-Methylnaphthalene	95 U	380	95	ug/kg	
85-01-8	Phenanthrene	190 U	380	190	ug/kg	
129-00-0	Pyrene	2300	380	95	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		49-124%
92-94-4	p-Terphenyl	82%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-48	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-57	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 87.1
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	2.4	0.57	0.34	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b>	SS-48-2	<b>Date Sampled:</b>	08/10/05
<b>Lab Sample ID:</b>	F34000-58	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	91.7
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA026096.D	1	08/25/05	MRE	08/16/05	OP14141	GAA1216
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	180 U	720	180	ug/kg	
208-96-8	Acenaphthylene	180 U	720	180	ug/kg	
120-12-7	Anthracene	180 U	360	180	ug/kg	
56-55-3	Benzo(a)anthracene	90 U	360	90	ug/kg	
50-32-8	Benzo(a)pyrene	18 U	72	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	18 U	72	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	18 U	72	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	18 U	72	18	ug/kg	
218-01-9	Chrysene	90 U	360	90	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	18 U	72	18	ug/kg	
206-44-0	Fluoranthene	90 U	360	90	ug/kg	
86-73-7	Fluorene	180 U	360	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	18 U	72	18	ug/kg	
91-20-3	Naphthalene	90 U	360	90	ug/kg	
90-12-0	1-Methylnaphthalene	90 U	360	90	ug/kg	
91-57-6	2-Methylnaphthalene	90 U	360	90	ug/kg	
85-01-8	Phenanthrene	180 U	360	180	ug/kg	
129-00-0	Pyrene	90 U	360	90	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		49-124%
92-94-4	p-Terphenyl	91%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-48-2	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-58	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 91.7
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	2.3	0.55	0.33	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b> SS-48-4		
<b>Lab Sample ID:</b> F34000-59		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 91.8
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA026076.D	1	08/24/05	MRE	08/16/05	OP14141	GAA1215
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	180 U	710	180	ug/kg	
208-96-8	Acenaphthylene	180 U	710	180	ug/kg	
120-12-7	Anthracene	180 U	350	180	ug/kg	
56-55-3	Benzo(a)anthracene	88 U	350	88	ug/kg	
50-32-8	Benzo(a)pyrene	18 U	71	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	18 U	71	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	18 U	71	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	18 U	71	18	ug/kg	
218-01-9	Chrysene	88 U	350	88	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	18 U	71	18	ug/kg	
206-44-0	Fluoranthene	88 U	350	88	ug/kg	
86-73-7	Fluorene	180 U	350	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	18 U	71	18	ug/kg	
91-20-3	Naphthalene	88 U	350	88	ug/kg	
90-12-0	1-Methylnaphthalene	88 U	350	88	ug/kg	
91-57-6	2-Methylnaphthalene	88 U	350	88	ug/kg	
85-01-8	Phenanthrene	180 U	350	180	ug/kg	
129-00-0	Pyrene	88 U	350	88	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		49-124%
92-94-4	p-Terphenyl	94%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-48-4	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-59	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 91.8
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.66	0.53	0.32	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b> SS-49		
<b>Lab Sample ID:</b> F34000-60		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 87.8
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	AA026077.D	1	08/24/05	MRE	08/16/05	OP14141	GAA1215
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.4 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	190 U	750	190	ug/kg	
208-96-8	Acenaphthylene	190 U	750	190	ug/kg	
120-12-7	Anthracene	190 U	370	190	ug/kg	
56-55-3	Benzo(a)anthracene	825	370	94	ug/kg	
50-32-8	Benzo(a)pyrene	1020	75	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	1230	75	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	515	75	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	544	75	19	ug/kg	
218-01-9	Chrysene	801	370	94	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	113	75	19	ug/kg	
206-44-0	Fluoranthene	937	370	94	ug/kg	
86-73-7	Fluorene	190 U	370	190	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	837	75	19	ug/kg	
91-20-3	Naphthalene	94 U	370	94	ug/kg	
90-12-0	1-Methylnaphthalene	94 U	370	94	ug/kg	
91-57-6	2-Methylnaphthalene	94 U	370	94	ug/kg	
85-01-8	Phenanthrene	190 U	370	190	ug/kg	
129-00-0	Pyrene	1240	370	94	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		49-124%
92-94-4	p-Terphenyl	82%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-49	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-60	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 87.8
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.72	0.56	0.33	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b> SS-49-2		
<b>Lab Sample ID:</b> F34000-61		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 92.7
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	AA026078.D	1	08/24/05	MRE	08/16/05	OP14141	GAA1215
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	180 U	710	180	ug/kg	
208-96-8	Acenaphthylene	180 U	710	180	ug/kg	
120-12-7	Anthracene	180 U	360	180	ug/kg	
56-55-3	Benzo(a)anthracene	311	360	89	ug/kg	I
50-32-8	Benzo(a)pyrene	395	71	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	409	71	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	190	71	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	162	71	18	ug/kg	
218-01-9	Chrysene	317	360	89	ug/kg	I
53-70-3	Dibenzo(a,h)anthracene	37.4	71	18	ug/kg	I
206-44-0	Fluoranthene	357	360	89	ug/kg	I
86-73-7	Fluorene	180 U	360	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	283	71	18	ug/kg	
91-20-3	Naphthalene	89 U	360	89	ug/kg	
90-12-0	1-Methylnaphthalene	89 U	360	89	ug/kg	
91-57-6	2-Methylnaphthalene	89 U	360	89	ug/kg	
85-01-8	Phenanthrene	180 U	360	180	ug/kg	
129-00-0	Pyrene	457	360	89	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		49-124%
92-94-4	p-Terphenyl	95%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result ≥ MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-49-2	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-61	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 92.7
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.64	0.54	0.32	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-49-4		
<b>Lab Sample ID:</b> F34000-62		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 89.4
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	AA026097.D	1	08/25/05	MRE	08/16/05	OP14141	GAA1216
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.2 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	190 U	740	190	ug/kg	
208-96-8	Acenaphthylene	190 U	740	190	ug/kg	
120-12-7	Anthracene	190 U	370	190	ug/kg	
56-55-3	Benzo(a)anthracene	93 U	370	93	ug/kg	
50-32-8	Benzo(a)pyrene	21.2	74	19	ug/kg	I
205-99-2	Benzo(b)fluoranthene	30.3	74	19	ug/kg	I
191-24-2	Benzo(g,h,i)perylene	19 U	74	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	19 U	74	19	ug/kg	
218-01-9	Chrysene	93 U	370	93	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	19 U	74	19	ug/kg	
206-44-0	Fluoranthene	93 U	370	93	ug/kg	
86-73-7	Fluorene	190 U	370	190	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	19 U	74	19	ug/kg	
91-20-3	Naphthalene	93 U	370	93	ug/kg	
90-12-0	1-Methylnaphthalene	93 U	370	93	ug/kg	
91-57-6	2-Methylnaphthalene	93 U	370	93	ug/kg	
85-01-8	Phenanthrene	190 U	370	190	ug/kg	
129-00-0	Pyrene	93 U	370	93	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		49-124%
92-94-4	p-Terphenyl	89%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-49-4	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-62	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 89.4
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.75	0.54	0.32	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-50		
<b>Lab Sample ID:</b> F34000-63		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 77.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	AA026080.D	1	08/24/05	MRE	08/16/05	OP14141	GAA1215
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.5 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	210 U	850	210	ug/kg	
208-96-8	Acenaphthylene	210 U	850	210	ug/kg	
120-12-7	Anthracene	210 U	430	210	ug/kg	
56-55-3	Benzo(a)anthracene	490	430	110	ug/kg	
50-32-8	Benzo(a)pyrene	645	85	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	725	85	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	314	85	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	329	85	21	ug/kg	
218-01-9	Chrysene	517	430	110	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	66.9	85	21	ug/kg	I
206-44-0	Fluoranthene	581	430	110	ug/kg	
86-73-7	Fluorene	210 U	430	210	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	614	85	21	ug/kg	
91-20-3	Naphthalene	110 U	430	110	ug/kg	
90-12-0	1-Methylnaphthalene	110 U	430	110	ug/kg	
91-57-6	2-Methylnaphthalene	110 U	430	110	ug/kg	
85-01-8	Phenanthrene	210 U	430	210	ug/kg	
129-00-0	Pyrene	693	430	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		49-124%
92-94-4	p-Terphenyl	93%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-50	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-63	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 77.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.55 I	0.65	0.39	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-50		
<b>Lab Sample ID:</b> F34000-64		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 78.9
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA026098.D	1	08/25/05	MRE	08/16/05	OP14141	GAA1216
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.4 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	200 U	810	200	ug/kg	
208-96-8	Acenaphthylene	200 U	810	200	ug/kg	
120-12-7	Anthracene	200 U	400	200	ug/kg	
56-55-3	Benzo(a)anthracene	100 U	400	100	ug/kg	
50-32-8	Benzo(a)pyrene	20 U	81	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	20 U	81	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	20 U	81	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	20 U	81	20	ug/kg	
218-01-9	Chrysene	100 U	400	100	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	20 U	81	20	ug/kg	
206-44-0	Fluoranthene	100 U	400	100	ug/kg	
86-73-7	Fluorene	200 U	400	200	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20 U	81	20	ug/kg	
91-20-3	Naphthalene	100 U	400	100	ug/kg	
90-12-0	1-Methylnaphthalene	100 U	400	100	ug/kg	
91-57-6	2-Methylnaphthalene	100 U	400	100	ug/kg	
85-01-8	Phenanthrene	200 U	400	200	ug/kg	
129-00-0	Pyrene	100 U	400	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		49-124%
92-94-4	p-Terphenyl	86%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-50	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-64	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 78.9
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.50 I	0.62	0.37	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-50-2		
<b>Lab Sample ID:</b> F34000-65		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 94.2
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	AA026083.D	1	08/24/05	MRE	08/16/05	OP14141	GAA1215
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.6 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	690	170	ug/kg	
208-96-8	Acenaphthylene	170 U	690	170	ug/kg	
120-12-7	Anthracene	170 U	350	170	ug/kg	
56-55-3	Benzo(a)anthracene	87 U	350	87	ug/kg	
50-32-8	Benzo(a)pyrene	39.5	69	17	ug/kg	I
205-99-2	Benzo(b)fluoranthene	41.5	69	17	ug/kg	I
191-24-2	Benzo(g,h,i)perylene	19.9	69	17	ug/kg	I
207-08-9	Benzo(k)fluoranthene	17 U	69	17	ug/kg	
218-01-9	Chrysene	87 U	350	87	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	69	17	ug/kg	
206-44-0	Fluoranthene	87 U	350	87	ug/kg	
86-73-7	Fluorene	170 U	350	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	27.7	69	17	ug/kg	I
91-20-3	Naphthalene	87 U	350	87	ug/kg	
90-12-0	1-Methylnaphthalene	87 U	350	87	ug/kg	
91-57-6	2-Methylnaphthalene	87 U	350	87	ug/kg	
85-01-8	Phenanthrene	170 U	350	170	ug/kg	
129-00-0	Pyrene	87 U	350	87	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		49-124%
92-94-4	p-Terphenyl	95%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-50-2	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-65	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 94.2
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.37 I	0.51	0.31	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-50-4		
<b>Lab Sample ID:</b> F34000-66		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 91.9
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	AA026084.D	1	08/25/05	MRE	08/16/05	OP14141	GAA1215
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	180 U	720	180	ug/kg	
208-96-8	Acenaphthylene	180 U	720	180	ug/kg	
120-12-7	Anthracene	180 U	360	180	ug/kg	
56-55-3	Benzo(a)anthracene	1840	360	90	ug/kg	
50-32-8	Benzo(a)pyrene	2590	72	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	2500	72	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1140	72	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	1300	72	18	ug/kg	
218-01-9	Chrysene	1400	360	90	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	202	72	18	ug/kg	
206-44-0	Fluoranthene	1670	360	90	ug/kg	
86-73-7	Fluorene	180 U	360	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	1830	72	18	ug/kg	
91-20-3	Naphthalene	90 U	360	90	ug/kg	
90-12-0	1-Methylnaphthalene	90 U	360	90	ug/kg	
91-57-6	2-Methylnaphthalene	90 U	360	90	ug/kg	
85-01-8	Phenanthrene	180 U	360	180	ug/kg	
129-00-0	Pyrene	3780	360	90	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		49-124%
92-94-4	p-Terphenyl	88%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-50-4	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-66	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 91.9
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.87	0.53	0.32	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-51		
<b>Lab Sample ID:</b> F34000-67		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 81.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	AA026099.D	1	08/25/05	MRE	08/16/05	OP14141	GAA1216
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.9 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	190 U	770	190	ug/kg	
208-96-8	Acenaphthylene	190 U	770	190	ug/kg	
120-12-7	Anthracene	190 U	390	190	ug/kg	
56-55-3	Benzo(a)anthracene	97 U	390	97	ug/kg	
50-32-8	Benzo(a)pyrene	36.9	77	19	ug/kg	I
205-99-2	Benzo(b)fluoranthene	47.3	77	19	ug/kg	I
191-24-2	Benzo(g,h,i)perylene	24.6	77	19	ug/kg	I
207-08-9	Benzo(k)fluoranthene	23.5	77	19	ug/kg	I
218-01-9	Chrysene	97 U	390	97	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	19 U	77	19	ug/kg	
206-44-0	Fluoranthene	97 U	390	97	ug/kg	
86-73-7	Fluorene	190 U	390	190	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	30.7	77	19	ug/kg	I
91-20-3	Naphthalene	97 U	390	97	ug/kg	
90-12-0	1-Methylnaphthalene	97 U	390	97	ug/kg	
91-57-6	2-Methylnaphthalene	97 U	390	97	ug/kg	
85-01-8	Phenanthrene	190 U	390	190	ug/kg	
129-00-0	Pyrene	97 U	390	97	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		49-124%
92-94-4	p-Terphenyl	88%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result  $\geq$  MDL but  $<$  RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-51	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-67	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 81.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.94	0.62	0.37	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b> SS-51-2		
<b>Lab Sample ID:</b> F34000-68		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 80.9
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA026100.D	1	08/25/05	MRE	08/16/05	OP14141	GAA1216
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.4 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	200 U	790	200	ug/kg	
208-96-8	Acenaphthylene	200 U	790	200	ug/kg	
120-12-7	Anthracene	200 U	390	200	ug/kg	
56-55-3	Benzo(a)anthracene	98 U	390	98	ug/kg	
50-32-8	Benzo(a)pyrene	20 U	79	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	20 U	79	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	20 U	79	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	20 U	79	20	ug/kg	
218-01-9	Chrysene	98 U	390	98	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	20 U	79	20	ug/kg	
206-44-0	Fluoranthene	98 U	390	98	ug/kg	
86-73-7	Fluorene	200 U	390	200	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20 U	79	20	ug/kg	
91-20-3	Naphthalene	98 U	390	98	ug/kg	
90-12-0	1-Methylnaphthalene	98 U	390	98	ug/kg	
91-57-6	2-Methylnaphthalene	98 U	390	98	ug/kg	
85-01-8	Phenanthrene	200 U	390	200	ug/kg	
129-00-0	Pyrene	98 U	390	98	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		49-124%
92-94-4	p-Terphenyl	77%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-51-2	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-68	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 80.9
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.36 U	0.61	0.36	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8481

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-52		
<b>Lab Sample ID:</b> F34000-69		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 83.4
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	AA026089.D	1	08/25/05	MRE	08/16/05	OP14141	GAA1215
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.5 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	190 U	760	190	ug/kg	
208-96-8	Acenaphthylene	190 U	760	190	ug/kg	
120-12-7	Anthracene	190 U	380	190	ug/kg	
56-55-3	Benzo(a)anthracene	1900	380	95	ug/kg	
50-32-8	Benzo(a)pyrene	2890	76	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	3160	76	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1620	76	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	1640	76	19	ug/kg	
218-01-9	Chrysene	1660	380	95	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	314	76	19	ug/kg	
206-44-0	Fluoranthene	1540	380	95	ug/kg	
86-73-7	Fluorene	190 U	380	190	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	2680	76	19	ug/kg	
91-20-3	Naphthalene	95 U	380	95	ug/kg	
90-12-0	1-Methylnaphthalene	95 U	380	95	ug/kg	
91-57-6	2-Methylnaphthalene	95 U	380	95	ug/kg	
85-01-8	Phenanthrene	190 U	380	190	ug/kg	
129-00-0	Pyrene	2950	380	95	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		49-124%
92-94-4	p-Terphenyl	75%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-52	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-69	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 83.4
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.8	0.57	0.34	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8482

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-52-2		
<b>Lab Sample ID:</b> F34000-70		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 91.1
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	AA026101.D	1	08/25/05	MRE	08/16/05	OP14141	GAA1216
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.6 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	690	170	ug/kg	
208-96-8	Acenaphthylene	170 U	690	170	ug/kg	
120-12-7	Anthracene	170 U	350	170	ug/kg	
56-55-3	Benzo(a)anthracene	87 U	350	87	ug/kg	
50-32-8	Benzo(a)pyrene	20.4	69	17	ug/kg	I
205-99-2	Benzo(b)fluoranthene	25.9	69	17	ug/kg	I
191-24-2	Benzo(g,h,i)perylene	18.1	69	17	ug/kg	I
207-08-9	Benzo(k)fluoranthene	17 U	69	17	ug/kg	
218-01-9	Chrysene	87 U	350	87	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	69	17	ug/kg	
206-44-0	Fluoranthene	87 U	350	87	ug/kg	
86-73-7	Fluorene	170 U	350	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	18.8	69	17	ug/kg	I
91-20-3	Naphthalene	87 U	350	87	ug/kg	
90-12-0	1-Methylnaphthalene	87 U	350	87	ug/kg	
91-57-6	2-Methylnaphthalene	87 U	350	87	ug/kg	
85-01-8	Phenanthrene	170 U	350	170	ug/kg	
129-00-0	Pyrene	87 U	350	87	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		49-124%
92-94-4	p-Terphenyl	85%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-52-2	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-70	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 91.1
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	2.0	0.55	0.33	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8482

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-52-4		
<b>Lab Sample ID:</b> F34000-71		<b>Date Sampled:</b> 08/10/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 90.8
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	EE034041.D	1	08/19/05	MRE	08/17/05	OP14158	GEE1321
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.8 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	180 U	720	180	ug/kg	
208-96-8	Acenaphthylene	180 U	720	180	ug/kg	
120-12-7	Anthracene	180 U	360	180	ug/kg	
56-55-3	Benzo(a)anthracene	89 U	360	89	ug/kg	
50-32-8	Benzo(a)pyrene	82.2	72	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	104	72	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	90.6	72	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	58.2	72	18	ug/kg	I
218-01-9	Chrysene	89 U	360	89	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	18 U	72	18	ug/kg	
206-44-0	Fluoranthene	89 U	360	89	ug/kg	
86-73-7	Fluorene	180 U	360	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	79.5	72	18	ug/kg	
91-20-3	Naphthalene	89 U	360	89	ug/kg	
90-12-0	1-Methylnaphthalene	89 U	360	89	ug/kg	
91-57-6	2-Methylnaphthalene	89 U	360	89	ug/kg	
85-01-8	Phenanthrene	180 U	360	180	ug/kg	
129-00-0	Pyrene	89 U	360	89	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		49-124%
92-94-4	p-Terphenyl	87%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result  $\geq$  MDL but  $<$  RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-52-4	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-71	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 90.8
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.2	0.53	0.32	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8482

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-53	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-72	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 87.1
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	2.9	0.55	0.33	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8482

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-53-2		<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-73		<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 89.4
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.4	0.56	0.34	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8482

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-53-4		<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-74		<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 93.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.30 U	0.50	0.30	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8482

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-54	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-75	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 83.1
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.5	0.57	0.34	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8482

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-54-2	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-76	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 88.7
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.7	0.56	0.34	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8482

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-54-4	<b>Date Sampled:</b> 08/10/05
<b>Lab Sample ID:</b> F34000-77	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 89.9
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.0	0.56	0.33	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8482

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-55		
<b>Lab Sample ID:</b> F34000-78		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 74.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	EE034042.D	1	08/19/05	MRE	08/17/05	OP14158	GEE1321
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.9 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	220 U	870	220	ug/kg	
208-96-8	Acenaphthylene	220 U	870	220	ug/kg	
120-12-7	Anthracene	220 U	440	220	ug/kg	
56-55-3	Benzo(a)anthracene	704	440	110	ug/kg	
50-32-8	Benzo(a)pyrene	1330	87	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	1720	87	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1420	87	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	1080	87	22	ug/kg	
218-01-9	Chrysene	844	440	110	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	247	87	22	ug/kg	
206-44-0	Fluoranthene	1570	440	110	ug/kg	
86-73-7	Fluorene	220 U	440	220	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	1220	87	22	ug/kg	
91-20-3	Naphthalene	110 U	440	110	ug/kg	
90-12-0	1-Methylnaphthalene	110 U	440	110	ug/kg	
91-57-6	2-Methylnaphthalene	110 U	440	110	ug/kg	
85-01-8	Phenanthrene	220 U	440	220	ug/kg	
129-00-0	Pyrene	2100	440	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		49-124%
92-94-4	p-Terphenyl	85%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-55	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-78	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 74.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	2.6	0.68	0.41	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8482

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-55-2		
<b>Lab Sample ID:</b> F34000-79		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 90.4
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	EE034069.D	1	08/21/05	MRE	08/17/05	OP14158	GEE1322
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	180 U	740	180	ug/kg	
208-96-8	Acenaphthylene	180 U	740	180	ug/kg	
120-12-7	Anthracene	180 U	370	180	ug/kg	
56-55-3	Benzo(a)anthracene	92 U	370	92	ug/kg	
50-32-8	Benzo(a)pyrene	150	74	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	208	74	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	187	74	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	117	74	18	ug/kg	
218-01-9	Chrysene	92 U	370	92	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	26.7	74	18	ug/kg	I
206-44-0	Fluoranthene	92 U	370	92	ug/kg	
86-73-7	Fluorene	180 U	370	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	150	74	18	ug/kg	
91-20-3	Naphthalene	92 U	370	92	ug/kg	
90-12-0	1-Methylnaphthalene	92 U	370	92	ug/kg	
91-57-6	2-Methylnaphthalene	92 U	370	92	ug/kg	
85-01-8	Phenanthrene	180 U	370	180	ug/kg	
129-00-0	Pyrene	232	370	92	ug/kg	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		49-124%
92-94-4	p-Terphenyl	71%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result  $\geq$  MDL but  $<$  RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-55-2	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-79	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 90.4
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	2.4	0.55	0.33	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8482

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b> SS-55-4		
<b>Lab Sample ID:</b> F34000-80		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 88.1
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE034071.D	1	08/21/05	MRE	08/17/05	OP14158	GEE1322
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	190 U	750	190	ug/kg	
208-96-8	Acenaphthylene	190 U	750	190	ug/kg	
120-12-7	Anthracene	190 U	380	190	ug/kg	
56-55-3	Benzo(a)anthracene	94 U	380	94	ug/kg	
50-32-8	Benzo(a)pyrene	19 U	75	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	19 U	75	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	19 U	75	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	19 U	75	19	ug/kg	
218-01-9	Chrysene	94 U	380	94	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	19 U	75	19	ug/kg	
206-44-0	Fluoranthene	94 U	380	94	ug/kg	
86-73-7	Fluorene	190 U	380	190	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	19 U	75	19	ug/kg	
91-20-3	Naphthalene	94 U	380	94	ug/kg	
90-12-0	1-Methylnaphthalene	94 U	380	94	ug/kg	
91-57-6	2-Methylnaphthalene	94 U	380	94	ug/kg	
85-01-8	Phenanthrene	190 U	380	190	ug/kg	
129-00-0	Pyrene	94 U	380	94	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		49-124%
92-94-4	p-Terphenyl	98%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SS-55-4	<b>Date Sampled:</b>	08/11/05
<b>Lab Sample ID:</b>	F34000-80	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	88.1
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.7	0.57	0.34	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8482

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-56	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-81	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 71.4
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	13.1	0.69	0.41	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8482

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-56-2	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-82	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 93.4
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.69	0.54	0.32	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8482

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-56-4		<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-83		<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 87.5
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.6	0.52	0.31	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8482

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b> SS-57		
<b>Lab Sample ID:</b> F34000-84		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 73.5
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	EE034045.D	1	08/19/05	MRE	08/17/05	OP14158	GEE1321
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.8 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	220 U	880	220	ug/kg	
208-96-8	Acenaphthylene	220 U	880	220	ug/kg	
120-12-7	Anthracene	220 U	440	220	ug/kg	
56-55-3	Benzo(a)anthracene	479	440	110	ug/kg	
50-32-8	Benzo(a)pyrene	1210	88	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	1600	88	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1230	88	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	889	88	22	ug/kg	
218-01-9	Chrysene	639	440	110	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	199	88	22	ug/kg	
206-44-0	Fluoranthene	992	440	110	ug/kg	
86-73-7	Fluorene	220 U	440	220	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	1110	88	22	ug/kg	
91-20-3	Naphthalene	110 U	440	110	ug/kg	
90-12-0	1-Methylnaphthalene	110 U	440	110	ug/kg	
91-57-6	2-Methylnaphthalene	110 U	440	110	ug/kg	
85-01-8	Phenanthrene	220 U	440	220	ug/kg	
129-00-0	Pyrene	1660	440	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		49-124%
92-94-4	p-Terphenyl	82%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-57	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-84	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 73.5
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.61 I	0.67	0.40	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8482

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b> SS-57-2		
<b>Lab Sample ID:</b> F34000-85		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 90.3
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE034047.D	1	08/19/05	MRE	08/17/05	OP14158	GEE1321
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	180 U	720	180	ug/kg	
208-96-8	Acenaphthylene	180 U	720	180	ug/kg	
120-12-7	Anthracene	180 U	360	180	ug/kg	
56-55-3	Benzo(a)anthracene	90 U	360	90	ug/kg	
50-32-8	Benzo(a)pyrene	18 U	72	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	18 U	72	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	18 U	72	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	18 U	72	18	ug/kg	
218-01-9	Chrysene	90 U	360	90	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	18 U	72	18	ug/kg	
206-44-0	Fluoranthene	90 U	360	90	ug/kg	
86-73-7	Fluorene	180 U	360	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	18 U	72	18	ug/kg	
91-20-3	Naphthalene	90 U	360	90	ug/kg	
90-12-0	1-Methylnaphthalene	90 U	360	90	ug/kg	
91-57-6	2-Methylnaphthalene	90 U	360	90	ug/kg	
85-01-8	Phenanthrene	180 U	360	180	ug/kg	
129-00-0	Pyrene	90 U	360	90	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		49-124%
92-94-4	p-Terphenyl	85%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-57-2	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-85	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 90.3
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.1	0.53	0.32	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8482

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

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<b>Client Sample ID:</b> SS-57-4		
<b>Lab Sample ID:</b> F34000-86		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 78.5
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE034048.D	1	08/19/05	MRE	08/17/05	OP14158	GEE1321
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.7 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	210 U	830	210	ug/kg	
208-96-8	Acenaphthylene	210 U	830	210	ug/kg	
120-12-7	Anthracene	210 U	410	210	ug/kg	
56-55-3	Benzo(a)anthracene	100 U	410	100	ug/kg	
50-32-8	Benzo(a)pyrene	21 U	83	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	21 U	83	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	21 U	83	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	21 U	83	21	ug/kg	
218-01-9	Chrysene	100 U	410	100	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	21 U	83	21	ug/kg	
206-44-0	Fluoranthene	100 U	410	100	ug/kg	
86-73-7	Fluorene	210 U	410	210	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	21 U	83	21	ug/kg	
91-20-3	Naphthalene	100 U	410	100	ug/kg	
90-12-0	1-Methylnaphthalene	100 U	410	100	ug/kg	
91-57-6	2-Methylnaphthalene	100 U	410	100	ug/kg	
85-01-8	Phenanthrene	210 U	410	210	ug/kg	
129-00-0	Pyrene	100 U	410	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		49-124%
92-94-4	p-Terphenyl	84%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-57-4	<b>Date Sampled:</b> 08/11/05
<b>Lab Sample ID:</b> F34000-86	<b>Date Received:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 78.5
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.95	0.59	0.35	mg/kg	1	08/23/05	08/24/05 RS	SW846 6010B <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA4514

(2) Prep QC Batch: MP8482

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b> SS-58		
<b>Lab Sample ID:</b> F34000-87		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 79.8
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	EE034049.D	1	08/19/05	MRE	08/17/05	OP14158	GEE1321
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.7 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	200 U	820	200	ug/kg	
208-96-8	Acenaphthylene	200 U	820	200	ug/kg	
120-12-7	Anthracene	200 U	410	200	ug/kg	
56-55-3	Benzo(a)anthracene	100 U	410	100	ug/kg	
50-32-8	Benzo(a)pyrene	32.1	82	20	ug/kg	I
205-99-2	Benzo(b)fluoranthene	48.6	82	20	ug/kg	I
191-24-2	Benzo(g,h,i)perylene	47.6	82	20	ug/kg	I
207-08-9	Benzo(k)fluoranthene	26.6	82	20	ug/kg	I
218-01-9	Chrysene	100 U	410	100	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	20 U	82	20	ug/kg	
206-44-0	Fluoranthene	100 U	410	100	ug/kg	
86-73-7	Fluorene	200 U	410	200	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	42.0	82	20	ug/kg	I
91-20-3	Naphthalene	100 U	410	100	ug/kg	
90-12-0	1-Methylnaphthalene	100 U	410	100	ug/kg	
91-57-6	2-Methylnaphthalene	100 U	410	100	ug/kg	
85-01-8	Phenanthrene	200 U	410	200	ug/kg	
129-00-0	Pyrene	100 U	410	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		49-124%
92-94-4	p-Terphenyl	84%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result ≥ MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b> SS-58-2		
<b>Lab Sample ID:</b> F34000-88		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 92.4
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	EE034050.D	1	08/19/05	MRE	08/17/05	OP14158	GEE1321
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.2 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	180 U	720	180	ug/kg	
208-96-8	Acenaphthylene	180 U	720	180	ug/kg	
120-12-7	Anthracene	180 U	360	180	ug/kg	
56-55-3	Benzo(a)anthracene	90 U	360	90	ug/kg	
50-32-8	Benzo(a)pyrene	71.3	72	18	ug/kg	I
205-99-2	Benzo(b)fluoranthene	97.8	72	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	72.2	72	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	54.6	72	18	ug/kg	I
218-01-9	Chrysene	90 U	360	90	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	18 U	72	18	ug/kg	
206-44-0	Fluoranthene	90 U	360	90	ug/kg	
86-73-7	Fluorene	180 U	360	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	65.0	72	18	ug/kg	I
91-20-3	Naphthalene	90 U	360	90	ug/kg	
90-12-0	1-Methylnaphthalene	90 U	360	90	ug/kg	
91-57-6	2-Methylnaphthalene	90 U	360	90	ug/kg	
85-01-8	Phenanthrene	180 U	360	180	ug/kg	
129-00-0	Pyrene	90 U	360	90	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		49-124%
92-94-4	p-Terphenyl	78%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result ≥ MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b> SS-58-4		
<b>Lab Sample ID:</b> F34000-89		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 80.2
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE034051.D	1	08/19/05	MRE	08/17/05	OP14158	GEE1321
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	200 U	810	200	ug/kg	
208-96-8	Acenaphthylene	200 U	810	200	ug/kg	
120-12-7	Anthracene	200 U	400	200	ug/kg	
56-55-3	Benzo(a)anthracene	100 U	400	100	ug/kg	
50-32-8	Benzo(a)pyrene	20 U	81	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	20 U	81	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	20 U	81	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	20 U	81	20	ug/kg	
218-01-9	Chrysene	100 U	400	100	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	20 U	81	20	ug/kg	
206-44-0	Fluoranthene	100 U	400	100	ug/kg	
86-73-7	Fluorene	200 U	400	200	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20 U	81	20	ug/kg	
91-20-3	Naphthalene	100 U	400	100	ug/kg	
90-12-0	1-Methylnaphthalene	100 U	400	100	ug/kg	
91-57-6	2-Methylnaphthalene	100 U	400	100	ug/kg	
85-01-8	Phenanthrene	200 U	400	200	ug/kg	
129-00-0	Pyrene	100 U	400	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		49-124%
92-94-4	p-Terphenyl	86%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-59		
<b>Lab Sample ID:</b> F34000-90		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 92.6
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	EE034052.D	1	08/19/05	MRE	08/17/05	OP14158	GEE1321
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	180 U	720	180	ug/kg	
208-96-8	Acenaphthylene	180 U	720	180	ug/kg	
120-12-7	Anthracene	180 U	360	180	ug/kg	
56-55-3	Benzo(a)anthracene	437	360	90	ug/kg	
50-32-8	Benzo(a)pyrene	845	72	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	1040	72	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	775	72	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	645	72	18	ug/kg	
218-01-9	Chrysene	404	360	90	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	140	72	18	ug/kg	
206-44-0	Fluoranthene	554	360	90	ug/kg	
86-73-7	Fluorene	180 U	360	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	695	72	18	ug/kg	
91-20-3	Naphthalene	90 U	360	90	ug/kg	
90-12-0	1-Methylnaphthalene	90 U	360	90	ug/kg	
91-57-6	2-Methylnaphthalene	90 U	360	90	ug/kg	
85-01-8	Phenanthrene	180 U	360	180	ug/kg	
129-00-0	Pyrene	1160	360	90	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		49-124%
92-94-4	p-Terphenyl	67%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-59-2		
<b>Lab Sample ID:</b> F34000-91		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 96.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE034073.D	1	08/21/05	MRE	08/17/05	OP14158	GEE1322
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	690	170	ug/kg	
208-96-8	Acenaphthylene	170 U	690	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	86 U	340	86	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	69	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	69	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	69	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	69	17	ug/kg	
218-01-9	Chrysene	86 U	340	86	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	69	17	ug/kg	
206-44-0	Fluoranthene	86 U	340	86	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	69	17	ug/kg	
91-20-3	Naphthalene	86 U	340	86	ug/kg	
90-12-0	1-Methylnaphthalene	86 U	340	86	ug/kg	
91-57-6	2-Methylnaphthalene	86 U	340	86	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	86 U	340	86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		49-124%
92-94-4	p-Terphenyl	94%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-59-4		
<b>Lab Sample ID:</b> F34000-92		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 95.5
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE034057.D	1	08/19/05	MRE	08/17/05	OP14158	GEE1321
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.9 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	680	170	ug/kg	
208-96-8	Acenaphthylene	170 U	680	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	85 U	340	85	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	68	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	68	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	68	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	68	17	ug/kg	
218-01-9	Chrysene	85 U	340	85	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	68	17	ug/kg	
206-44-0	Fluoranthene	85 U	340	85	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	68	17	ug/kg	
91-20-3	Naphthalene	85 U	340	85	ug/kg	
90-12-0	1-Methylnaphthalene	85 U	340	85	ug/kg	
91-57-6	2-Methylnaphthalene	85 U	340	85	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	85 U	340	85	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		49-124%
92-94-4	p-Terphenyl	86%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-60	
<b>Lab Sample ID:</b> F34000-93	<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B	<b>Percent Solids:</b> 96.2
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	EE034058.D	1	08/19/05	MRE	08/17/05	OP14158	GEE1321
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	690	170	ug/kg	
208-96-8	Acenaphthylene	170 U	690	170	ug/kg	
120-12-7	Anthracene	170 U	350	170	ug/kg	
56-55-3	Benzo(a)anthracene	618	350	87	ug/kg	
50-32-8	Benzo(a)pyrene	1160	69	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	1260	69	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	936	69	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	784	69	17	ug/kg	
218-01-9	Chrysene	555	350	87	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	154	69	17	ug/kg	
206-44-0	Fluoranthene	778	350	87	ug/kg	
86-73-7	Fluorene	170 U	350	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	880	69	17	ug/kg	
91-20-3	Naphthalene	87 U	350	87	ug/kg	
90-12-0	1-Methylnaphthalene	87 U	350	87	ug/kg	
91-57-6	2-Methylnaphthalene	87 U	350	87	ug/kg	
85-01-8	Phenanthrene	170 U	350	170	ug/kg	
129-00-0	Pyrene	1340	350	87	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		49-124%
92-94-4	p-Terphenyl	82%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b>	SS-60-2	<b>Date Sampled:</b>	08/11/05
<b>Lab Sample ID:</b>	F34000-94	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	95.4
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE034074.D	1	08/21/05	MRE	08/17/05	OP14158	GEE1322
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.4 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	690	170	ug/kg	
208-96-8	Acenaphthylene	170 U	690	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	86 U	340	86	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	69	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	69	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	69	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	69	17	ug/kg	
218-01-9	Chrysene	86 U	340	86	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	69	17	ug/kg	
206-44-0	Fluoranthene	86 U	340	86	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	69	17	ug/kg	
91-20-3	Naphthalene	86 U	340	86	ug/kg	
90-12-0	1-Methylnaphthalene	86 U	340	86	ug/kg	
91-57-6	2-Methylnaphthalene	86 U	340	86	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	86 U	340	86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	99%		49-124%
92-94-4	p-Terphenyl	103%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b>	SS-60-4	<b>Date Sampled:</b>	08/11/05
<b>Lab Sample ID:</b>	F34000-95	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	95.6
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE034060.D	1	08/20/05	MRE	08/17/05	OP14158	GEE1321
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	690	170	ug/kg	
208-96-8	Acenaphthylene	170 U	690	170	ug/kg	
120-12-7	Anthracene	170 U	350	170	ug/kg	
56-55-3	Benzo(a)anthracene	86 U	350	86	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	69	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	69	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	69	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	69	17	ug/kg	
218-01-9	Chrysene	86 U	350	86	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	69	17	ug/kg	
206-44-0	Fluoranthene	86 U	350	86	ug/kg	
86-73-7	Fluorene	170 U	350	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	69	17	ug/kg	
91-20-3	Naphthalene	86 U	350	86	ug/kg	
90-12-0	1-Methylnaphthalene	86 U	350	86	ug/kg	
91-57-6	2-Methylnaphthalene	86 U	350	86	ug/kg	
85-01-8	Phenanthrene	170 U	350	170	ug/kg	
129-00-0	Pyrene	86 U	350	86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		49-124%
92-94-4	p-Terphenyl	85%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-61		
<b>Lab Sample ID:</b> F34000-96		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 90.4
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	EE034061.D	5	08/20/05	MRE	08/17/05	OP14158	GEE1321
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	920 U	3700	920	ug/kg	
208-96-8	Acenaphthylene	920 U	3700	920	ug/kg	
120-12-7	Anthracene	920 U	1800	920	ug/kg	
56-55-3	Benzo(a)anthracene	2390	1800	460	ug/kg	
50-32-8	Benzo(a)pyrene	4310	370	92	ug/kg	
205-99-2	Benzo(b)fluoranthene	5360	370	92	ug/kg	
191-24-2	Benzo(g,h,i)perylene	4210	370	92	ug/kg	
207-08-9	Benzo(k)fluoranthene	3300	370	92	ug/kg	
218-01-9	Chrysene	2990	1800	460	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	697	370	92	ug/kg	
206-44-0	Fluoranthene	3950	1800	460	ug/kg	
86-73-7	Fluorene	920 U	1800	920	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	3750	370	92	ug/kg	
91-20-3	Naphthalene	460 U	1800	460	ug/kg	
90-12-0	1-Methylnaphthalene	460 U	1800	460	ug/kg	
91-57-6	2-Methylnaphthalene	460 U	1800	460	ug/kg	
85-01-8	Phenanthrene	920 U	1800	920	ug/kg	
129-00-0	Pyrene	4770	1800	460	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		49-124%
92-94-4	p-Terphenyl	85%		56-141%

(a) All hits confirmed by spectral match using a diode array detector. Dilution required due to matrix interference.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SS-61-2	<b>Date Sampled:</b>	08/11/05
<b>Lab Sample ID:</b>	F34000-97	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	96.1
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	EE034063.D	1	08/20/05	MRE	08/17/05	OP14158	GEE1321
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.4 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	680	170	ug/kg	
208-96-8	Acenaphthylene	170 U	680	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	171	340	86	ug/kg	I
50-32-8	Benzo(a)pyrene	277	68	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	449	68	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	402	68	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	259	68	17	ug/kg	
218-01-9	Chrysene	247	340	86	ug/kg	I
53-70-3	Dibenzo(a,h)anthracene	57.0	68	17	ug/kg	I
206-44-0	Fluoranthene	348	340	86	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	336	68	17	ug/kg	
91-20-3	Naphthalene	86 U	340	86	ug/kg	
90-12-0	1-Methylnaphthalene	86 U	340	86	ug/kg	
91-57-6	2-Methylnaphthalene	86 U	340	86	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	361	340	86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		49-124%
92-94-4	p-Terphenyl	86%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result ≥ MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SS-61-4	<b>Date Sampled:</b>	08/11/05
<b>Lab Sample ID:</b>	F34000-98	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	96.2
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	EE034075.D	1	08/21/05	MRE	08/17/05	OP14158	GEE1322
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.6 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	680	170	ug/kg	
208-96-8	Acenaphthylene	170 U	680	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	85 U	340	85	ug/kg	
50-32-8	Benzo(a)pyrene	29.5	68	17	ug/kg	I
205-99-2	Benzo(b)fluoranthene	50.8	68	17	ug/kg	I
191-24-2	Benzo(g,h,i)perylene	45.9	68	17	ug/kg	I
207-08-9	Benzo(k)fluoranthene	27.4	68	17	ug/kg	I
218-01-9	Chrysene	85 U	340	85	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	68	17	ug/kg	
206-44-0	Fluoranthene	85 U	340	85	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40.9	68	17	ug/kg	I
91-20-3	Naphthalene	85 U	340	85	ug/kg	
90-12-0	1-Methylnaphthalene	85 U	340	85	ug/kg	
91-57-6	2-Methylnaphthalene	85 U	340	85	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	85 U	340	85	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		49-124%
92-94-4	p-Terphenyl	100%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result ≥ MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b>	SS-62	<b>Date Sampled:</b>	08/11/05
<b>Lab Sample ID:</b>	F34000-99	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	94.9
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	PP007426.D	1	08/21/05	MRE	08/18/05	OP14168	GPP276
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.6 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	690	170	ug/kg	
208-96-8	Acenaphthylene	170 U	690	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	334	340	86	ug/kg	I
50-32-8	Benzo(a)pyrene	462	69	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	646	69	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	334	69	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	328	69	17	ug/kg	
218-01-9	Chrysene	308	340	86	ug/kg	I
53-70-3	Dibenzo(a,h)anthracene	91.4	69	17	ug/kg	
206-44-0	Fluoranthene	326	340	86	ug/kg	I
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	427	69	17	ug/kg	
91-20-3	Naphthalene	86 U	340	86	ug/kg	
90-12-0	1-Methylnaphthalene	86 U	340	86	ug/kg	
91-57-6	2-Methylnaphthalene	86 U	340	86	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	661	340	86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		49-124%
92-94-4	p-Terphenyl	87%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result  $\geq$  MDL but  $<$  RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b> SS-62-2		
<b>Lab Sample ID:</b> F34000-100		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 95.4
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007428.D	1	08/21/05	MRE	08/18/05	OP14168	GPP276
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	690	170	ug/kg	
208-96-8	Acenaphthylene	170 U	690	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	86 U	340	86	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	69	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	69	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	69	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	69	17	ug/kg	
218-01-9	Chrysene	86 U	340	86	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	69	17	ug/kg	
206-44-0	Fluoranthene	86 U	340	86	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	69	17	ug/kg	
91-20-3	Naphthalene	86 U	340	86	ug/kg	
90-12-0	1-Methylnaphthalene	86 U	340	86	ug/kg	
91-57-6	2-Methylnaphthalene	86 U	340	86	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	86 U	340	86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		49-124%
92-94-4	p-Terphenyl	91%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b>	SS-62-4	<b>Date Sampled:</b>	08/11/05
<b>Lab Sample ID:</b>	F34000-101	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	95.0
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007429.D	1	08/21/05	MRE	08/18/05	OP14168	GPP276
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.1 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	680	170	ug/kg	
208-96-8	Acenaphthylene	170 U	680	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	85 U	340	85	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	68	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	68	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	68	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	68	17	ug/kg	
218-01-9	Chrysene	85 U	340	85	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	68	17	ug/kg	
206-44-0	Fluoranthene	85 U	340	85	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	68	17	ug/kg	
91-20-3	Naphthalene	85 U	340	85	ug/kg	
90-12-0	1-Methylnaphthalene	85 U	340	85	ug/kg	
91-57-6	2-Methylnaphthalene	85 U	340	85	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	85 U	340	85	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		49-124%
92-94-4	p-Terphenyl	89%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SS-63	<b>Date Sampled:</b>	08/11/05
<b>Lab Sample ID:</b>	F34000-102	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	96.0
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	PP007430.D	1	08/21/05	MRE	08/18/05	OP14168	GPP276
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.4 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	660	170	ug/kg	
208-96-8	Acenaphthylene	170 U	660	170	ug/kg	
120-12-7	Anthracene	170 U	330	170	ug/kg	
56-55-3	Benzo(a)anthracene	83 U	330	83	ug/kg	
50-32-8	Benzo(a)pyrene	32.6	66	17	ug/kg	I
205-99-2	Benzo(b)fluoranthene	72.7	66	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	54.4	66	17	ug/kg	I
207-08-9	Benzo(k)fluoranthene	35.1	66	17	ug/kg	I
218-01-9	Chrysene	83 U	330	83	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	66	17	ug/kg	
206-44-0	Fluoranthene	83 U	330	83	ug/kg	
86-73-7	Fluorene	170 U	330	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	52.0	66	17	ug/kg	I
91-20-3	Naphthalene	83 U	330	83	ug/kg	
90-12-0	1-Methylnaphthalene	83 U	330	83	ug/kg	
91-57-6	2-Methylnaphthalene	83 U	330	83	ug/kg	
85-01-8	Phenanthrene	170 U	330	170	ug/kg	
129-00-0	Pyrene	83 U	330	83	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		49-124%
92-94-4	p-Terphenyl	95%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SS-63-2	<b>Date Sampled:</b>	08/11/05
<b>Lab Sample ID:</b>	F34000-103	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	96.0
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007431.D	1	08/21/05	MRE	08/18/05	OP14168	GPP276
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.7 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	680	170	ug/kg	
208-96-8	Acenaphthylene	170 U	680	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	85 U	340	85	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	68	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	68	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	68	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	68	17	ug/kg	
218-01-9	Chrysene	85 U	340	85	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	68	17	ug/kg	
206-44-0	Fluoranthene	85 U	340	85	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	68	17	ug/kg	
91-20-3	Naphthalene	85 U	340	85	ug/kg	
90-12-0	1-Methylnaphthalene	85 U	340	85	ug/kg	
91-57-6	2-Methylnaphthalene	85 U	340	85	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	85 U	340	85	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		49-124%
92-94-4	p-Terphenyl	83%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SS-63-4						
<b>Lab Sample ID:</b>	F34000-104				<b>Date Sampled:</b>	08/11/05	
<b>Matrix:</b>	SO - Soil				<b>Date Received:</b>	08/11/05	
<b>Method:</b>	SW846 8310 SW846 3550B				<b>Percent Solids:</b>	95.7	
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007432.D	1	08/21/05	MRE	08/18/05	OP14168	GPP276
Run #2							

	Initial Weight	Final Volume
Run #1	31.5 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	660	170	ug/kg	
208-96-8	Acenaphthylene	170 U	660	170	ug/kg	
120-12-7	Anthracene	170 U	330	170	ug/kg	
56-55-3	Benzo(a)anthracene	83 U	330	83	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	66	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	66	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	66	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	66	17	ug/kg	
218-01-9	Chrysene	83 U	330	83	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	66	17	ug/kg	
206-44-0	Fluoranthene	83 U	330	83	ug/kg	
86-73-7	Fluorene	170 U	330	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	66	17	ug/kg	
91-20-3	Naphthalene	83 U	330	83	ug/kg	
90-12-0	1-Methylnaphthalene	83 U	330	83	ug/kg	
91-57-6	2-Methylnaphthalene	83 U	330	83	ug/kg	
85-01-8	Phenanthrene	170 U	330	170	ug/kg	
129-00-0	Pyrene	83 U	330	83	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		49-124%
92-94-4	p-Terphenyl	86%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b> SS-64		
<b>Lab Sample ID:</b> F34000-105		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 97.1
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	PP007611.D	1	08/25/05	MRE	08/23/05	OP14202	GPP280
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	690	170	ug/kg	
208-96-8	Acenaphthylene	170 U	690	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	86 U	340	86	ug/kg	
50-32-8	Benzo(a)pyrene	31.1	69	17	ug/kg	I
205-99-2	Benzo(b)fluoranthene	49.7	69	17	ug/kg	I
191-24-2	Benzo(g,h,i)perylene	41.6	69	17	ug/kg	I
207-08-9	Benzo(k)fluoranthene	25.1	69	17	ug/kg	I
218-01-9	Chrysene	86 U	340	86	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	69	17	ug/kg	
206-44-0	Fluoranthene	86 U	340	86	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	30.4	69	17	ug/kg	I
91-20-3	Naphthalene	86 U	340	86	ug/kg	
90-12-0	1-Methylnaphthalene	86 U	340	86	ug/kg	
91-57-6	2-Methylnaphthalene	86 U	340	86	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	86 U	340	86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	55%		49-124%
92-94-4	p-Terphenyl	68%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result  $\geq$  MDL but  $<$  RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b>	SS-64-2	<b>Date Sampled:</b>	08/11/05
<b>Lab Sample ID:</b>	F34000-106	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	96.6
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007436.D	1	08/21/05	MRE	08/18/05	OP14168	GPP276
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.6 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	680	170	ug/kg	
208-96-8	Acenaphthylene	170 U	680	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	85 U	340	85	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	68	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	68	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	68	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	68	17	ug/kg	
218-01-9	Chrysene	85 U	340	85	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	68	17	ug/kg	
206-44-0	Fluoranthene	85 U	340	85	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	68	17	ug/kg	
91-20-3	Naphthalene	85 U	340	85	ug/kg	
90-12-0	1-Methylnaphthalene	85 U	340	85	ug/kg	
91-57-6	2-Methylnaphthalene	85 U	340	85	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	85 U	340	85	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		49-124%
92-94-4	p-Terphenyl	91%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-64-4		
<b>Lab Sample ID:</b> F34000-107		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 95.9
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007437.D	1	08/21/05	MRE	08/18/05	OP14168	GPP276
Run #2							

	Initial Weight	Final Volume
Run #1	31.5 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	660	170	ug/kg	
208-96-8	Acenaphthylene	170 U	660	170	ug/kg	
120-12-7	Anthracene	170 U	330	170	ug/kg	
56-55-3	Benzo(a)anthracene	83 U	330	83	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	66	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	66	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	66	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	66	17	ug/kg	
218-01-9	Chrysene	83 U	330	83	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	66	17	ug/kg	
206-44-0	Fluoranthene	83 U	330	83	ug/kg	
86-73-7	Fluorene	170 U	330	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	66	17	ug/kg	
91-20-3	Naphthalene	83 U	330	83	ug/kg	
90-12-0	1-Methylnaphthalene	83 U	330	83	ug/kg	
91-57-6	2-Methylnaphthalene	83 U	330	83	ug/kg	
85-01-8	Phenanthrene	170 U	330	170	ug/kg	
129-00-0	Pyrene	83 U	330	83	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		49-124%
92-94-4	p-Terphenyl	96%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SS-65		
<b>Lab Sample ID:</b> F34000-108		<b>Date Sampled:</b> 08/11/05
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 08/11/05
<b>Method:</b> SW846 8310 SW846 3550B		<b>Percent Solids:</b> 94.0
<b>Project:</b> CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	PP007438.D	1	08/21/05	MRE	08/18/05	OP14168	GPP276
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.2 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	180 U	700	180	ug/kg	
208-96-8	Acenaphthylene	180 U	700	180	ug/kg	
120-12-7	Anthracene	180 U	350	180	ug/kg	
56-55-3	Benzo(a)anthracene	88 U	350	88	ug/kg	
50-32-8	Benzo(a)pyrene	138	70	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	205	70	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	148	70	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	106	70	18	ug/kg	
218-01-9	Chrysene	88 U	350	88	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	32.8	70	18	ug/kg	I
206-44-0	Fluoranthene	122	350	88	ug/kg	I
86-73-7	Fluorene	180 U	350	180	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	134	70	18	ug/kg	
91-20-3	Naphthalene	88 U	350	88	ug/kg	
90-12-0	1-Methylnaphthalene	88 U	350	88	ug/kg	
91-57-6	2-Methylnaphthalene	88 U	350	88	ug/kg	
85-01-8	Phenanthrene	180 U	350	180	ug/kg	
129-00-0	Pyrene	187	350	88	ug/kg	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		49-124%
92-94-4	p-Terphenyl	82%		56-141%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SS-65-2	<b>Date Sampled:</b>	08/11/05
<b>Lab Sample ID:</b>	F34000-109	<b>Date Received:</b>	08/11/05
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	95.9
<b>Method:</b>	SW846 8310 SW846 3550B		
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007440.D	1	08/21/05	MRE	08/18/05	OP14168	GPP276
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.7 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	170 U	680	170	ug/kg	
208-96-8	Acenaphthylene	170 U	680	170	ug/kg	
120-12-7	Anthracene	170 U	340	170	ug/kg	
56-55-3	Benzo(a)anthracene	85 U	340	85	ug/kg	
50-32-8	Benzo(a)pyrene	17 U	68	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	17 U	68	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	17 U	68	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	17 U	68	17	ug/kg	
218-01-9	Chrysene	85 U	340	85	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	17 U	68	17	ug/kg	
206-44-0	Fluoranthene	85 U	340	85	ug/kg	
86-73-7	Fluorene	170 U	340	170	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17 U	68	17	ug/kg	
91-20-3	Naphthalene	85 U	340	85	ug/kg	
90-12-0	1-Methylnaphthalene	85 U	340	85	ug/kg	
91-57-6	2-Methylnaphthalene	85 U	340	85	ug/kg	
85-01-8	Phenanthrene	170 U	340	170	ug/kg	
129-00-0	Pyrene	85 U	340	85	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		49-124%
92-94-4	p-Terphenyl	91%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b>	SS-65-4						
<b>Lab Sample ID:</b>	F34000-110				<b>Date Sampled:</b>	08/11/05	
<b>Matrix:</b>	SO - Soil				<b>Date Received:</b>	08/11/05	
<b>Method:</b>	SW846 8310 SW846 3550B				<b>Percent Solids:</b>	96.3	
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007441.D	1	08/21/05	MRE	08/18/05	OP14168	GPP276
Run #2							

	Initial Weight	Final Volume
Run #1	31.8 g	5.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	160 U	650	160	ug/kg	
208-96-8	Acenaphthylene	160 U	650	160	ug/kg	
120-12-7	Anthracene	160 U	330	160	ug/kg	
56-55-3	Benzo(a)anthracene	82 U	330	82	ug/kg	
50-32-8	Benzo(a)pyrene	16 U	65	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	16 U	65	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	16 U	65	16	ug/kg	
207-08-9	Benzo(k)fluoranthene	16 U	65	16	ug/kg	
218-01-9	Chrysene	82 U	330	82	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	16 U	65	16	ug/kg	
206-44-0	Fluoranthene	82 U	330	82	ug/kg	
86-73-7	Fluorene	160 U	330	160	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	16 U	65	16	ug/kg	
91-20-3	Naphthalene	82 U	330	82	ug/kg	
90-12-0	1-Methylnaphthalene	82 U	330	82	ug/kg	
91-57-6	2-Methylnaphthalene	82 U	330	82	ug/kg	
85-01-8	Phenanthrene	160 U	330	160	ug/kg	
129-00-0	Pyrene	82 U	330	82	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		49-124%
92-94-4	p-Terphenyl	94%		56-141%

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result &gt;= MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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<b>Client Sample ID:</b>	RINSATE-EQUIPMENT		
<b>Lab Sample ID:</b>	F34000-111	<b>Date Sampled:</b>	08/11/05
<b>Matrix:</b>	AQ - Equipment Blank	<b>Date Received:</b>	08/11/05
<b>Method:</b>	SW846 8310 SW846 3510C	<b>Percent Solids:</b>	n/a
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007318.D	1	08/16/05	MRE	08/15/05	OP14123	GPP272
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.97 U	3.9	0.97	ug/l	
208-96-8	Acenaphthylene	0.97 U	3.9	0.97	ug/l	
120-12-7	Anthracene	0.97 U	1.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	0.049 U	0.19	0.049	ug/l	
50-32-8	Benzo(a)pyrene	0.097 U	0.19	0.097	ug/l	
205-99-2	Benzo(b)fluoranthene	0.049 U	0.19	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.097 U	0.19	0.097	ug/l	
207-08-9	Benzo(k)fluoranthene	0.097 U	0.19	0.097	ug/l	
218-01-9	Chrysene	0.97 U	1.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.049 U	0.19	0.049	ug/l	
206-44-0	Fluoranthene	0.49 U	1.9	0.49	ug/l	
86-73-7	Fluorene	0.97 U	1.9	0.97	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.049 U	0.19	0.049	ug/l	
91-20-3	Naphthalene	0.97 U	1.9	0.97	ug/l	
90-12-0	1-Methylnaphthalene	0.49 U	1.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	0.49 U	1.9	0.49	ug/l	
85-01-8	Phenanthrene	0.97 U	1.9	0.97	ug/l	
129-00-0	Pyrene	0.49 U	1.9	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		36-114%
92-94-4	p-Terphenyl	94%		31-121%

U = Not detected      MDL - Method Detection Limit      I = Result >= MDL but < RL      J = Estimated value  
 RL = Reporting Limit      V = Indicates analyte found in associated method blank  
 L = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	RINSATE-EQUIPMENT		
<b>Lab Sample ID:</b>	F34000-111	<b>Date Sampled:</b>	08/11/05
<b>Matrix:</b>	AQ - Equipment Blank	<b>Date Received:</b>	08/11/05
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL	<b>Percent Solids:</b>	n/a

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	2.9 U	10	2.9	ug/l	1	08/18/05	08/19/05 JM	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA4505

(2) Prep QC Batch: MP8458

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Report of Analysis

<b>Client Sample ID:</b>	DECON DRUM WATER		
<b>Lab Sample ID:</b>	F34000-112	<b>Date Sampled:</b>	08/11/05
<b>Matrix:</b>	AQ - Water	<b>Date Received:</b>	08/11/05
<b>Method:</b>	SW846 8310 SW846 3510C	<b>Percent Solids:</b>	n/a
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	PP007319.D	1	08/16/05	MRE	08/15/05	OP14123	GPP272
Run #2 <sup>b</sup>	PP007335.D	1	08/17/05	MRE	08/15/05	OP14123	GPP273

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2	940 ml	1.0 ml

## Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	1.1 U	4.3	1.1	ug/l	
208-96-8	Acenaphthylene	1.1 U	4.3	1.1	ug/l	
120-12-7	Anthracene	1.1 U	2.1	1.1	ug/l	
56-55-3	Benzo(a)anthracene	0.21	0.21	0.053	ug/l	
50-32-8	Benzo(a)pyrene	0.23	0.21	0.11	ug/l	
205-99-2	Benzo(b)fluoranthene	0.28	0.21	0.053	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.18	0.21	0.11	ug/l	I
207-08-9	Benzo(k)fluoranthene	0.16	0.21	0.11	ug/l	I
218-01-9	Chrysene	1.1 U	2.1	1.1	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.053 U	0.21	0.053	ug/l	
206-44-0	Fluoranthene	0.53 U	2.1	0.53	ug/l	
86-73-7	Fluorene	1.1 U	2.1	1.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.24	0.21	0.053	ug/l	
91-20-3	Naphthalene	1.1 U	2.1	1.1	ug/l	
90-12-0	1-Methylnaphthalene	0.53 U	2.1	0.53	ug/l	
91-57-6	2-Methylnaphthalene	0.53 U	2.1	0.53	ug/l	
85-01-8	Phenanthrene	1.1 U	2.1	1.1	ug/l	
129-00-0	Pyrene	0.53 U	2.1	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	11% <sup>c</sup>	8%	36-114%
92-94-4	p-Terphenyl	19% <sup>c</sup>	19%	31-121%

(a) Confirmed by GC/MS

(b) Confirmation run.

(c) Confirmed by reanalysis. Insufficient sample to re-extract.

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit

L = Indicates value exceeds calibration range

I = Result  $\geq$  MDL but  $<$  RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	DECON DRUM WATER		
<b>Lab Sample ID:</b>	F34000-112	<b>Date Sampled:</b>	08/11/05
<b>Matrix:</b>	AQ - Water	<b>Date Received:</b>	08/11/05
<b>Project:</b>	CSX-Lake Wales, Lake Wales, FL	<b>Percent Solids:</b>	n/a

### Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	8.4 I	10	2.9	ug/l	1	08/18/05	08/19/05 JM	SW846 6010B <sup>1</sup>	SW846 3010A <sup>2</sup>

(1) Instrument QC Batch: MA4505

(2) Prep QC Batch: MP8458

RL = Reporting Limit  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

## Misc. Forms

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### Custody Documents and Other Forms

---

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

4405 Vineland Rd., Suite C15  
Orlando, FL 32811  
407.425.6700, fax 407.425.0707

Accutest Job #: **F34000**  
Accutest Control #:

Client Information		Facility Information				Analytical Information																				
Name <b>WRS Infrastructure &amp; Environment, Inc.</b>		Project Name <b>CSX - Lake Wales</b>				<b>Arsenic</b>	<b>PAHs</b>	<b>Herbicides (8151)</b>																		
Address <b>1650 Summit Lake Drive, Suite 202</b>		Location <b>Lake Wales, Polk County, Florida</b>																								
City State Zip <b>Tallahassee FL 32517</b>		Project No. <b>305009</b>																								
Send Report to: <b>Frank Powell</b>		FAX #: <b>850-531-9866</b>																								
Phone #: <b>850-531-9860</b>																										
Field ID / Point of Collection		Collection			Preservation																					
		Date	Time	Sampled By	Matrix				# of bottles	SO	NO	NO <sub>2</sub>	NO <sub>3</sub>	NO <sub>3</sub> -N	NO <sub>3</sub> -C	None										
1	SS-1-2	3-10	1100	WRS	SO				1							X	X									
2	SS-1-4		1100	WRS	SO				1							X	X									
3	SS-2		1125	WRS	SO				1							X			X							
4	SS-2-2		1125	WRS	SO	2							X	X	X											
5	SS-2-4		1125	WRS	SO	2							X	X	X											
6	SS-5		1240	WRS	SO	1							X			X										
7	SS-5-2		1240	WRS	SO	2							X	X	X											
8	SS-5-4		1240	WRS	SO	2							X	X	X											
9	SS-8		1315	WRS	SO	1							X									X				
10	SS-8-2	✓	1315	WRS	SO	2							X	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)		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		<b>WRS PO NUMBER : 74220338</b>																		
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:	Received By:																					
1																										
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:																					
3				8-11-05 1230	2																					
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:																					
5	8-11-05 5:28	50	Stephen Carson	8-11-05 12:30	4																					
Seal # _____ Preserved where applica _____ On Ice: <input type="checkbox"/>																										

3.6, 3.0, 4.2, 4.0

31  
3



















CHAIN OF CUSTODY

4405 Vineland Rd., Suite C15  
Orlando, FL 32811  
407.425.6700, fax 407.425.0707

Accutest Job #: **F34000**  
Accutest Control #:

Client Information		Facility Information				Analytical Information																				
Name WRS Infrastructure & Environment, Inc.		Project Name CSX - Lake Wales				Arsenic	PAHs	Herbicides (8151)																		
Address 1650 Summit Lake Drive, Suite 202		Location Lake Wales, Polk County, Florida																								
City State Zip Tallahassee FL 32517		Project No. 305009																								
Send Report to: Frank Powell		FAX #: 850-531-9866																								
Phone #: 850-531-9860																										
Field ID / Point of Collection	Collection		Sampled By	Matrix	# of bottles	Preservation					None	Arsenic	PAHs	Herbicides (8151)												
	Date	Time				As	SeOH	FeOH	FeNO3	FeSO4																
91	SS-59-2	8-11	830	WRS	SO	1						X		X												
92	SS-59-4		830	WRS	SO	1						X		X												
93	SS-60		1050	WRS	SO	1						X		X												
94	SS-60-2		1050	WRS	SO	1						X		X												
95	SS-60-4		1050	WRS	SO	1						X		X												
96	SS-61		1055	WRS	SO	1						X		X												
97	SS-61-2		1055	WRS	SO	1						X		X												
98	SS-61-4		1055	WRS	SO	1						X		X												
99	SS-62		1045	WRS	SO	1						X		X												
100	SS-62-2		1045	WRS	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)		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																				
RUSH TAT is for FAX data Data unless previously approved.																										
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:	Received By:																					
1																										
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:																					
3	8-11-05 5:20			8-11-05 12:40	2																					
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:																					
5																										
		Seal #		Preserved where applica																						
				On Ice:																						

31  
3





**ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION**

ACCUTEST'S JOB NUMBER: F34000 CLIENT: URS PROJECT: CSX-lake Wales  
 DATE/TIME RECEIVED: 8-11-05 / 17:20 # OF COOLERS RECEIVED: 4 COOLER TEMPS: 3.8, 3.0, 4.2, 4.0  
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER  
 AIRBILL NUMBERS: \_\_\_\_\_

**COOLER INFORMATION**

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- NO COC RECEIVED
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

**TRIP BLANK INFORMATION**

- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

**SAMPLE INFORMATION**

- SAMPLE LABELS PRESENT ON ALL BOTTLES
- CORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- TIMES ON COC DON'T MATCH LABEL
- ID'S ON COC DON'T MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING INSTRUCTIONS
- UNCLEAR COMPOSITING INSTRUCTIONS
- SAMPLE(S) RECEIVED BROKEN
- % SOLIDS JAR NOT RECEIVED

**SOIL INFORMATION**

NUMBER OF ENCORES ? 0  
 NUMBER OF 5035 FIELD KITS ? 0

SUMMARY OF COMMENTS: Received only one Amber for Samples 111, 112.

TECHNICIAN SIGNATURE/DATE Steven Creamer / 8-11-05 TECHNICIAN SIGNATURE/DATE \_\_\_\_\_

ASBD06/22/05

31  
3

## **Attachment V**

Table 1: Soil Analytical Results for Selected Parameters



**TABLE 1**  
**SOIL ANALYTICAL RESULTS FOR SELECTED PARAMETERS**  
**LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT**

CSX Transportation Property - OGT - Lake Wales Trailways Project  
 Lake Wales, Polk County, Florida  
 WRS Project No. 305009  
 Task Assignment No. 0038

Sample Identification	Date	Arsenic	Benzo (a) pyrene Equivalent
<b>Residential Soil Cleanup Target Level</b>		<b>2.1</b>	<b>0.100</b>
<b>Industrial/Commercial Soil Cleanup Target Level</b>		<b>12.0</b>	<b>0.700</b>
<b>Recreational I Park Soil Cleanup Target Level</b>		<b>5.8</b>	<b>*</b>
<b>Background Concentration</b>		<b>0.72</b>	<b>*</b>
SS-1	6/22/2005	14.40	*
SS-1-2	8/10/2005	0.88	*
SS-1-4	8/10/2005	1.80	*
SS-2	6/22/2005	8.70	2.700
SS-2-2	8/10/2005	0.95	0.191
SS-2-4	8/10/2005	0.68	ND
SS-3	6/22/2005	1.30	*
SS-4	6/22/2005	1.60	*
SS-5	6/22/2005	16.40	3.900
SS-5-2	8/10/2005	0.49	ND
SS-5-4	8/10/2005	0.46	ND
SS-6	6/22/2005	2.90	*
SS-7	6/22/2005	4.70	*
SS-8	6/22/2005	14.50	4.000
SS-8-2	8/10/2005	0.51	ND
SS-8-4	8/10/2005	0.71	ND
SS-9	6/22/2005	2.60	*
SS-10	6/22/2005	2.50	*
SS-11	6/22/2005	9.60	5.900
SS-11-2	8/10/2005	1.50	ND
SS-11-4	8/10/2005	1.60	ND
SS-12	6/22/2005	7.70	*
SS-13	6/22/2005	1.70	*
SS-14	6/22/2005	11.70	3.500
SS-14-2	8/11/2005	2.10	ND
SS-14-4	8/11/2005	0.62	ND
SS-15	6/22/2005	3.40	*
SS-16	6/22/2005	1.90	*
SS-17	6/22/2005	8.60	3.800
SS-17-2	8/10/2005	2.10	29.140
SS-17-4	8/10/2005	< 0.39	1.250
SS-18	6/22/2005	8.80	*
SS-1	8/10/2005	1.60	*
SS-18-2	8/10/2005	0.67	*
SS-18-4	8/10/2005	0.82	*
SS-19	6/22/2005	0.69	*
SS-20	6/22/2005	8.80	7.300
SS-20-2	8/11/2005	< 0.41	0.410
SS-20-4	8/11/2005	< 0.31	ND
SS-21	6/22/2005	2.40	*
SS-22	6/22/2005	2.60	*
SS-23	6/22/2005	4.30	8.400
SS-23-2	8/11/2005	*	ND
SS-23-4	8/11/2005	*	ND
SS-24	6/22/2005	1.40	*
SS-25	6/22/2005	1.50	*
SS-26	6/22/2005	2.10	2.000
SS-26-2	8/11/2005	*	ND
SS-26-4	8/11/2005	*	ND
SS-27	6/22/2005	0.71	*
SS-28	6/22/2005	1.00	*
SS-29	6/22/2005	0.37	ND
SS-30	6/22/2005	0.80	*
SS-31	6/22/2005	1.50	*
SS-32	6/22/2005	0.41	ND
SS-33	6/22/2005	1.00	*
SS-34	6/22/2005	5.50	*

\* See notes at the end of the table.

**TABLE 1 (Continued)**  
**SOIL ANALYTICAL RESULTS FOR SELECTED PARAMETERS**  
**LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT**

CSX Transportation Property - OGT - Lake Wales Trailways Project  
 Lake Wales, Polk County, Florida  
 WRS Project No. 305009  
 Task Assignment No. 0038

Sample Identification	Date	Arsenic	Benzo (a) pyrene Equivalent
Residential Soil Cleanup Target Level		2.1	0.100
Industrial/Commercial Soil Cleanup Target Level		12.0	0.700
Recreational I Park Soil Cleanup Target Level		5.8	*
Background Concentration		0.72	*
SS-35	6/22/2005	0.48	ND
SS-36	6/22/2005	0.99	*
SS-37	6/22/2005	1.20	*
SS-38	6/22/2005	1.20	0.600
SS-38-2	8/11/2005	*	ND
SS-38-4	8/11/2005	*	0.002
SS-39	6/22/2005	0.97	*
SS-40	8/10/2005	15.6	*
SS-40-2	8/10/2005	0.64	*
SS-40-4	8/10/2005	< 0.32	*
SS-41	8/10/2005	*	3.815
SS-41-2	8/10/2005	*	ND
SS-41-4	8/10/2005	*	ND
SS-42	8/10/2005	7.70	0.630
SS-42-2	8/10/2005	< 0.31	ND
SS-42-4	8/10/2005	< 0.39	ND
SS-43	8/10/2005	0.95	0.958
SS-43-2	8/10/2005	< 0.30	ND
SS-43-4	8/10/2005	< 0.31	ND
SS-44	8/10/2005	11.20	0.228
SS-44-2	8/10/2005	< 0.31	ND
SS-44-4	8/10/2005	< 0.31	ND
SS-45	8/10/2005	< 0.31	0.138
SS-45-2	8/10/2005	2.80	0.035
SS-45-4	8/10/2005	0.41	ND
SS-46	8/10/2005	6.60	3.410
SS-46-2	8/10/2005	< 0.38	ND
SS-46-4	8/10/2005	< 0.38	ND
SS-47	8/10/2005	2.40	0.072
SS-47-2	8/10/2005	0.83	ND
SS-47-4	8/10/2005	0.58	0.045
SS-48	8/10/2005	2.40	2.785
SS-48-2	8/10/2005	2.30	ND
SS-48-4	8/10/2005	0.66	ND
SS-49	8/11/2005	0.72	1.428
SS-49-2	8/11/2005	0.64	0.535
SS-49-4	8/11/2005	0.75	ND
SS-50	8/11/2005	0.55	0.899
SS-50-2	8/11/2005	0.50	0.046
SS-50-4	8/11/2005	0.37	3.423
SS-51	8/11/2005	0.87	0.045
SS-51-2	8/11/2005	0.94	ND
SS-51-4	8/11/2005	< 0.36	ND
SS-52	8/10/2005	3.80	3.996
SS-52-2	8/10/2005	2.00	0.025
SS-52-4	8/10/2005	1.20	0.101
SS-53	8/10/2005	2.90	*
SS-53-2	8/10/2005	1.40	*
SS-53-4	8/10/2005	< 0.30	*
SS-54	8/10/2005	1.50	*
SS-54-2	8/10/2005	1.70	*
SS-54-4	8/10/2005	1.00	*
SS-55	8/11/2005	2.60	1.953
SS-55-2	8/11/2005	2.40	0.214
SS-55-4	8/11/2005	1.70	ND
SS-56	8/11/2005	13.10	*
SS-56-2	8/11/2005	0.69	*
SS-56-4	8/11/2005	1.60	*

\* See notes at the end of the table.

**TABLE 1 (Continued)**  
**SOIL ANALYTICAL RESULTS FOR SELECTED PARAMETERS**  
**LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT**

CSX Transportation Property - OGT - Lake Wales Trailways Project  
 Lake Wales, Polk County, Florida  
 WRS Project No. 305009  
 Task Assignment No. 0038

Sample Identification	Date	Arsenic	Benzo (a) pyrene Equivalent
<b>Residential Soil Cleanup Target Level</b>		<b>2.1</b>	<b>0.100</b>
<b>Industrial/Commercial Soil Cleanup Target Level</b>		<b>12.0</b>	<b>0.700</b>
<b>Recreational I Park Soil Cleanup Target Level</b>		<b>5.8</b>	<b>*</b>
<b>Background Concentration</b>		<b>0.72</b>	<b>*</b>
SS-57	8/11/2005	0.61	<b>1.737</b>
SS-57-2	8/11/2005	1.10	ND
SS-57-4	8/11/2005	0.95	ND
SS-58	8/11/2005	*	0.041
SS-58-2	8/11/2005	*	0.088
SS-58-4	8/11/2005	*	ND
SS-59	8/11/2005	*	<b>1.209</b>
SS-59-2	8/11/2005	*	ND
SS-59-4	8/11/2005	*	ND
SS-60	8/11/2005	*	<b>1.598</b>
SS-60-2	8/11/2005	*	ND
SS-60-4	8/11/2005	*	ND
SS-61	8/11/2005	*	<b>6.193</b>
SS-61-2	8/11/2005	*	<b>0.432</b>
SS-61-4	8/11/2005	*	0.039
SS-62	8/11/2005	*	<b>0.698</b>
SS-62-2	8/11/2005	*	ND
SS-62-4	8/11/2005	*	ND
SS-63	8/11/2005	*	0.045
SS-63-2	8/11/2005	*	ND
SS-63-4	8/11/2005	*	ND
SS-64	8/11/2005	*	0.039
SS-64-2	8/11/2005	*	ND
SS-64-4	8/11/2005	*	ND
SS-65	8/11/2005	*	<b>0.206</b>
SS-65-2	8/11/2005	*	ND
SS-65-4	8/11/2005	*	ND

Notes:

- \* - Not Analyzed or No Cleanup Target Level Established
- ND - Not Detected
- Bolding indicates the contaminant is above the Residential Soil Cleanup Target Level or Background Concentration.
- Bolding and Shading indicates the contaminant is above the Residential and Commercial/Industrial Soil Cleanup Target Level.
- Italicized indicates the contaminant is above the Recreational I Park Soil Cleanup Target Level.
- Direct exposure for residential soil cleanup target levels are from Table II, Chapter 62-777, FAC.
- Soil concentrations, Residential Soil Cleanup Target Levels, Commercial/Industrial Cleanup Target Levels, Background Concentrations, and Recreational I Park Soil Cleanup Target Levels are reported in milligrams per kilogram.

## **Attachment VI**

### **Chapter 62.770.300 - FDEP Source Removal Guidelines and Specifications**



of Environmental Protection, Bureau of Emergency Response as soon as possible but no later than 24 hours after occurrence. The discharge shall be reported by:

(a) The discharger; or

(b) The owner or operator if the discharger is unknown or if the discovery was the result of a previously unreported discharge.

*Specific Authority 376.303, 376.3071 FS. Law Implemented 376.305, 376.3071 FS. History—New 2-21-90, Formerly 17-770.250, Amended 9-23-97, 8-5-99, 4-17-05.*

### **62-770.300 Interim Source Removal.**

(1) Free Product Removal and Disposal.

(a) Except for those sites described in paragraph (1)(g) of this rule, within three days of discovery of free product the responsible party shall take steps to obtain cleanup services for product recovery or initiate product recovery. Product recovery shall be performed pursuant to paragraph 62-770.300(1)(b), F.A.C. The responsible party is required to complete product recovery provided that:

1. The product recovery method shall be selected pursuant to paragraph 62-770.300(1)(b), F.A.C.;

2. The product recovery shall not spread contamination into previously uncontaminated or less contaminated areas through untreated discharges, improper treatment, improper disposal, or improper storage;

3. Flammable products shall be handled in a safe manner; and

4. All sampling and analyses shall be performed pursuant to Rule 62-770.400, F.A.C.

(b) The following passive and active methods of product recovery may be implemented without requesting approval from the Department or FDEP local program:

1. Absorbent pads;

2. Skimmer pumps that include pumps with mechanical, electrical, or hand-bailed purging operations;

3. Hand or mechanical bailing; and

4. Fluid vacuum techniques (for example, vacuum pump trucks) or total fluid displacement pumps, as long as:

a. The technique used shall not smear or spread free product or contaminate previously uncontaminated or less contaminated media; and

b. The volume of groundwater recovered shall not be greater than two times the volume of free product recovered, except that the first 1,000 gallons of the total fluid recovered per discharge are exempt from meeting the required ratio of groundwater to free product.

(c) In addition to the product recovery methods specified in paragraph 62-770.300(1)(b), F.A.C., the responsible party may evaluate, propose, and submit other product recovery methods to the Department or to the FDEP local program for approval pursuant to Rule 62-770.890, F.A.C., prior to implementation. During the submittal and approval process, implementation of one or more of the collection methods specified in paragraph 62-770.300(1)(b), F.A.C., is required. The submittal shall include the results of the evaluation performed to determine the potential for product spreading or smearing, and the potential for air emissions, and a justification as to the environmental and economical benefits of the selected recovery method. The product recovery methods proposed may include:

1. Excavation of soil saturated with petroleum or petroleum products into, or below, the water table;
2. Dewatering or groundwater extractions that may influence the depth to the water table; or
3. Air/fluid extraction.

(d) Product recovery as an Interim Source Removal shall be deemed complete when free product has been removed to the maximum extent practicable pursuant to paragraphs 62-770.300(1)(a) and 62-770.300(1)(b), F.A.C.

(e) Within 10 days after initiation of product recovery, the responsible party shall provide written notification to the Department or to the FDEP local program on Form 62-770.900(1).

(f) Unless a different reporting period is approved pursuant to the provisions of subsection 62-770.800(4), F.A.C., the responsible party shall submit to the Department or to the FDEP local program for review two copies of an annual status report documenting the recovery progress and summarizing all recovery activities.

(g) At petroleum contamination sites eligible for State funding assistance under the Inland Protection Trust Fund where the discharge occurred prior to March 29, 1995, product recovery shall commence in accordance with the ranking established pursuant to Chapter 62-771, F.A.C., and shall be performed pursuant to paragraphs 62-770.300(1)(b) and 62-770.300(1)(c), F.A.C., and pursuant to Section 376.30711, F.S.

(2) Short-term Groundwater Recovery.

A short-term groundwater recovery event may be performed as an interim source removal activity. Groundwater recovery from well(s) within the plume with screened intervals that intercept the water table, with the intent of achieving cleanup progress, may be performed prior to Department or FDEP local program approval of a Remedial Action Plan submitted pursuant to Rule 62-770.700, F.A.C., provided the following criteria are met:

(a) The groundwater contamination shall be established to be less than 1/4 acre and confined to shallow aquifer well(s) with screened intervals that intercept the water table, such that the pumping of a shallow aquifer well(s) within the plume may result in the site meeting the No Further Action criteria of Rule 62-770.680, F.A.C., or the Natural Attenuation Monitoring criteria of Rule 62-770.690, F.A.C.;

(b) Free product shall not be present;

(c) The duration of the groundwater recovery shall not exceed 30 days;

(d) The recovered groundwater shall not be treated on-site and shall be properly disposed at a permitted industrial water treatment facility, or at a publicly-owned treatment works with the approval of the sanitary sewer authority; and

(e) Sampling of representative monitoring wells to determine the effectiveness of the Short-term Groundwater Recovery event shall be performed at least 30 days after completion of the groundwater recovery.

(3) Soil Removal, Treatment, and Disposal.

(a) If contaminated soil exists at a site, excavation of contaminated soil for proper treatment or proper disposal may be performed. Consistent with the goals set forth in Section 403.061(33), F.S., the Department encourages treatment over disposal options to address contaminated soil. The treatment or disposal of contaminated soil may be performed prior to Department or FDEP local program approval of a Remedial Action Plan submitted pursuant to Rule 62-770.700, F.A.C., provided the following criteria are met:

1. Contamination shall not be spread into previously uncontaminated or less contaminated areas through untreated discharges, improper treatment, improper disposal, or improper storage;

2. Flammable products shall be handled in a safe manner;

3. When a soil vacuum extraction system is necessary to abate an imminent threat to human life, health, safety, or welfare within a structure or utility conduit, then the vacuum extraction

system shall be designed and operated only to abate the imminent threat. The Department or the FDEP local program shall be notified, within 24 hours, of the imminent threat and the intent to use a soil vacuum extraction system. The air emissions monitoring and frequency of monitoring shall be performed pursuant to paragraphs 62-770.700(5)(a) and 62-770.700(11)(i), F.A.C.;

4. If one of the objectives of the interim source removal is to excavate all the contaminated soil, confirmatory soil samples shall be collected at the bottom of the excavation (unless the bottom is below the water table) and walls or perimeter of the excavation;

5. When excavated soil is temporarily stored or stockpiled on-site, the soil shall be placed on an impermeable surface to prevent leachate infiltration and secured in a manner that prevents human exposure to contaminated soil and prevents soil exposure to precipitation that may cause surface runoff, and any excavation shall be secured to prevent entry by the public. Excavated contaminated soil (including excessively contaminated soil) may be returned to the original excavation when petroleum storage tank systems have been removed or replaced, or if contaminated soil was encountered during construction activities, to be addressed pursuant to Rule 62-770.700, F.A.C.; and

6. Excavated contaminated soil (including excessively contaminated soil) shall not be stored or stockpiled on-site for more than 60 days, unless it is stockpiled on a right-of-way, in which case it shall be removed for proper treatment or proper disposal as soon as practical but no later than 30 days after excavation, or unless it is being land farmed pursuant to paragraph 62-770.300(3)(b), F.A.C., at which time the soil shall be returned to the original excavation, or removed and properly treated or properly disposed. Contaminated soil (including excessively contaminated soil) may be containerized in water tight drums and stored on-site for 90 days, after which time proper treatment or proper disposal of the contaminated soil shall occur, or it may be land farmed pursuant to paragraph 62-770.300(3)(b), F.A.C.

(b) Land farming of contaminated soil is allowed, provided the land farming operation is located on the same property as the source of contaminated soil unless it is land farmed at a permitted stationary facility. The following criteria shall be met for contaminated soil land farmed on the source property:

1. The land farm operation shall be at least 200 feet from any residence, school, or park;
2. An area large enough to spread the soil to a thickness of 6 to 12 inches shall be available;

3. The land farming area shall be secured in a manner that prevents entry by the public and prevents human exposure to contaminated soil;

4. The materials used to construct the land farm treatment area shall withstand the rigors of the land farming and weather;

5. The land farmed soil shall be placed over an impermeable liner or surface, and surrounded at all times by an impermeable liner supported by berms;

6. The land farmed soil shall be tilled at least biweekly;

7. The land farmed soil shall be covered when not being tilled to prevent water from entering or leaving the area;

8. A monitoring and sampling program shall be established to evaluate the effectiveness of the land farming operation and the effect on the environment, including monitoring of groundwater to confirm leaching is not occurring and of off gas emissions for air regulatory compliance. Before the land farming operation commences, the responsible party shall submit to the Department or to the FDEP local program the monitoring and sampling program, design specifications of the treatment area, and types and amounts of any proposed additives to the soil, to demonstrate that the objectives of this paragraph will be met. Prior approval is not required for quantities less than 20 cubic yards, but the design specifications and results of the monitoring and sampling program shall be submitted in the Interim Source Removal Report;

9. Land farming of soil is limited to 180 days, at the end of which time proper disposal is required except if written approval pursuant to the provisions of subsection 62-770.800(4), F.A.C., to exceed this time frame, is obtained from the Department or from the FDEP local program; and

10. Land farmed soil that does not exceed the lower of the direct exposure residential CTLs and leachability based on groundwater criteria CTLs specified in Chapter 62-777, F.A.C., Table II may be disposed on-site or off-site. Responsible parties are advised that other federal or local laws and regulations may apply to these activities. Land farmed soil that exceeds the applicable CTLs specified in Chapter 62-777, F.A.C., Table II shall not be disposed or returned to the original excavation without obtaining approval from the Department or from the FDEP local program, pursuant to the provisions of Rule 62-770.890, F.A.C.

(c) Soil treatment, storage, or disposal techniques not authorized by applicable rules of the Department, or in paragraph 62-770.300(3)(b), F.A.C., require approval in a Remedial Action

Plan submitted pursuant to Rule 62-770.700, F.A.C.

(d) At petroleum contamination sites eligible for State funding assistance under the Inland Protection Trust Fund, soil removal for treatment or disposal, if warranted and cost-effective, shall commence in accordance with the ranking established pursuant to Chapter 62-771, F.A.C., and shall be performed in accordance with the Department's preapproval program procedures pursuant to a preapproval agreement.

(4) Authorizations.

Authorization or receipt of approval pursuant to Rule 62-770.300, F.A.C., does not relieve the responsible party from the obligation to comply with other Department rules (for example, Chapters 62-701 and 62-730, F.A.C.) for product recovery, product disposal, groundwater recovery, or the handling, storage, disposal, or treatment of contaminated media. Responsible parties are advised that other federal or local laws and regulations may apply to these activities.

(5) Interim Source Removal Report.

(a) Within 60 days of completion of interim source removal activities, the responsible party shall submit to the Department or to the FDEP local program for review two copies of an Interim Source Removal Report. If analytical results obtained pursuant to paragraph 62-770.300(2)(e), F.A.C., and subparagraphs 62-770.300(3)(a)4. and 62-770.600(4)(m)3., F.A.C., as applicable, after completion of the interim source removal, demonstrate that the applicable No Further Action criteria of subsection 62-770.680(1), F.A.C., are met, a Site Assessment Report pursuant to subsection 62-770.600(7), F.A.C., may be submitted in lieu of the Interim Source Removal Report.

(b) Unless otherwise specified in a preapproval agreement, the Interim Source Removal Report shall contain the following information in detail, as applicable:

1. The volume of product that was discharged, if known;
2. The volume of free product and the volume of groundwater recovered;
3. The volume of contaminated soil excavated and treated or properly disposed;
4. The disposal or recycling methods for free product and contaminated soil;
5. The disposal methods for other contaminated media and any investigation-derived waste;
6. A scaled site map (including a graphical representation of the scale used) that shows the location(s) where free product and groundwater were recovered, the area of soil removed, and the approximate locations where all samples were collected;

7. A table that summarizes free product thickness in each monitoring well or piezometer, the total depth and screened interval of each monitoring well or piezometer, and the dates the measurements were made;

8. The type of field screening instrument, analytical methods, or other methods used;

9. The dimensions of the excavation(s) and location(s), integrity, capacities, and last known contents of storage tanks, integral piping, dispensers, or appurtenances removed;

10. The dimensions of the excavation(s) and location(s) and capacities of replacement underground storage tanks;

11. A table that indicates the identification, depth, and field soil screening results of each sample collected;

12. Separate tables by medium that summarize all available soil and groundwater analytical results, detection limits achieved for non-detected analytes, and analyses performed (listing all contaminants analyzed and their corresponding CTLs);

13. Depth to groundwater at the time of each excavation, measurement locations, and method used to obtain that information;

14. Type of petroleum or petroleum products discharged and a determination, if possible, of how the product was released;

15. A scaled site map (including a graphical representation of the scale used) that shows the locations and results of confirmatory soil samples, in relation to the area of soil removal;

16. Documentation or certification that confirms the proper treatment or proper disposal of the free product, contaminated groundwater, or contaminated soil, including disposal manifests for free product, a copy of the documentation or certification of treatment or acceptance of the contaminated soil, and results of analyses, if performed; and

17. For land farmed soil, a copy of the pre-treatment and post-treatment analytical results.

(c) Within 60 days of receipt of an Interim Source Removal Report, the Department or the FDEP local program shall:

1. Provide the responsible party with written approval of the Interim Source Removal Report submitted pursuant to the criteria of paragraph 62-770.300(5)(b), F.A.C.; or

2. Notify the responsible party in writing, stating the reason(s) why the Interim Source Removal Report does not conform with the applicable Interim Source Removal criteria of paragraph 62-770.300(5)(b), F.A.C.

(6) If the Interim Source Removal Report is incomplete in any respect, or is insufficient to satisfy the criteria of paragraph 62-770.300(5)(b), F.A.C., the Department or the FDEP local program shall inform the responsible party pursuant to subparagraph 62-770.300(5)(c)2., F.A.C., and the responsible party shall submit to the Department or to the FDEP local program for review two copies of an Interim Source Removal Report Addendum that addresses the deficiencies within 60 days after receipt of the notice.

(7) If the interim source removal is performed after submittal of the Site Assessment Report, the responsible party shall submit to the Department or to the FDEP local program for review two copies of a Site Assessment Report Addendum that updates the Site Assessment Report by summarizing the interim source removal activities and all sampling results obtained after submittal of the Site Assessment Report, and that includes a recommendation pursuant to paragraph 62-770.600(8)(b), F.A.C.

*Specific Authority 376.303, 376.3071 FS. Law Implemented 376.3071, 376.30711 FS. History—New 11-1-87, Formerly 17-70.006, Amended 2-21-90, Formerly 17-770.300, Amended 9-3-96, 9-23-97, 8-5-99, 4-17-05.*

#### **62-770.400 Quality Assurance Requirements.**

(1) Persons performing sampling and analyses pursuant to this chapter shall comply with the applicable requirements of Chapter 62-160, F.A.C., Quality Assurance.

(2) Unless otherwise specified in this chapter, reports that are submitted to the Department or to the FDEP local program and that contain analytical data shall include the following forms and information, as applicable:

(a) Laboratory reports that include all information specified in subsection 62-160.340(2), F.A.C., and are in the format specified in Chapter 62-160, F.A.C. (soil analytical results shall be reported on a dry-weight basis);

(b) Copies of the completed chain of custody record form(s) [Form 62-770.900(2)] or an equivalent chain of custody form that includes all the items required by Form 62-770.900(2)];

(c) Copies of the completed water sampling log form(s) pursuant to Chapter 62-160, F.A.C.; and

(d) Results from screening tests or on-site analyses performed pursuant to this chapter.

*Specific Authority 376.303, 376.3071, 403.0877 FS. Law Implemented 376.3071 FS. History—New 11-1-87, Formerly 17-70.007, Amended 2-21-90, Formerly 17-770.400, Amended 9-23-97,*