Lake Hancock Outfall Treatment Project H014

Lake Hancock Plant Establishment Study Final Report

Prepared for:

The Southwest Florida Water Management District

October 2008

Prepared by:

Wetland Solutions, WSI Inc.

Association with:

Lake Hancock Outfall Treatment Project H014

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In Association with: **PARSONS**

Contents

| Executive Summary | 1 |
|--|----|
| 1.0 Introduction | |
| 2.0 Study Site Description and Monitoring Methods | 2 |
| 2.1 Description of the Study Site | |
| 2.1.1 System Location | |
| 2.2 System Construction | |
| 2.2.1 Wetland and Cogongrass Cells | 3 |
| 2.2.2 Pump and Piping | 5 |
| 2.2.3 Instrumentation, Sampling Platforms, and Fence | |
| 2.2.4 Vegetation Planting | 9 |
| 2.3Hydrologic Monitoring | |
| 2.4 Vegetation Monitoring | 11 |
| 2.5 Water Quality Monitoring | |
| 2.6 Soil Sampling | 13 |
| 2.7 Cogongrass Eradication Experimental Plots | 14 |
| 3.0 Results | |
| 3.1 Hydrology | 17 |
| 3.2 Vegetation Monitoring | 21 |
| 3.3 Cogongrass Study | 29 |
| 3.3.1 Herbicide, Mowing, and Control; Cell C-1 | 29 |
| 3.3.2 Immediate Flooding; Cell C-2 | 33 |
| 3.4 Water Quality Monitoring | 33 |
| 3.4.1 Field Parameters | 33 |
| 3.4.2 Nitrogen | 35 |
| 3.4.3 Phosphorus | 36 |
| 3.4.4 Additional Water Quality Parameters | 37 |
| 3.5 Soil Sampling | 38 |
| 4.0 Recommendations | 48 |
| | |

Executive Summary

The Southwest Florida Water Management District (District) plans to construct a large-scale, flow-through, treatment wetland to improve the quality of water discharged from Lake Hancock to Saddle Creek and ultimately to the Peace River. A Plant Establishment Study (Study) was implemented on the south side of Lake Hancock to provide site-specific information to help address these design and construction-related concerns of implementing this treatment wetland project on reclaimed clay settling areas. The Study was initiated in June 2007 and lasted one full year. Final plant community and water quality sampling was conducted in May 2008. Hydrologic records were collected over the full 365 day period.

Results of the year-long Study are provided in this report. In summary, rates and densities of plant establishment under a range of site preparation and hydrologic conditions were quantified. The Study found that an emergent wetland plant community can be established on these soils within about one year using planting of nursery-grown stock at a fairly high planting density. Slower but eventual wetland plant coverage can also be attained by natural recruitment of volunteer plant species. Hydrologic control was found to be one of the most important requirements for optimizing plant growth in these soils. Early plant colonization tended to occur at median water depths not exceeding 0.7 - 0.8 ft, and colonization of most species occurred at median water depths not exceeding 0.2 - 0.3 ft. Invasive species such as cogongrass was controlled by flooding, eliminating the need to use recalcitrant herbicides.

A number of specific recommendations related to design and construction methods for the full-scale treatment wetland are presented in this report. Plant community establishment can be accomplished in a timely and cost effective fashion by a combination of using relatively narrow planting strips of nursery-grown plants and natural volunteer plant recruitment. The resulting plant community will likely have a high cover of cattails but will also have considerable overall diversity and many subdominant plant species. A dense cover of robust emergent flood-tolerant plants is considered essential to maximize nitrogen removal in the full-scale treatment wetland.

1.0 Introduction

The Southwest Florida Water Management District (District) plans to construct a large-scale, flow-through, treatment wetland to improve the quality of water discharged from Lake Hancock to Saddle Creek and ultimately to the Peace River. The primary goal of the full-scale treatment wetland is nitrogen removal to help achieve water quality goals in the lower Peace River and Charlotte Harbor. The full-scale treatment wetland will be constructed on the south side of Lake Hancock on reclaimed phosphate mine clay settling areas. The nature of the existing soils leads to design-related issues involving constructability of the proposed wetland grading plan and the suitability of these clayey substrates for initial wetland vegetation establishment through natural recruitment and minimal planting of nursery grown plant stock.

A Plant Establishment Study (Study) was implemented on the south side of Lake Hancock to provide site-specific information to help address these design and construction-related concerns of implementing a large-scale treatment wetland on reclaimed clay settling areas (**Exhibit 1-1**). The Study was initiated in June 2007 and lasted one year. Final sampling was conducted in May 2008. First, second and third quarterly results were presented in previous reports (WSI 2007, WSI 2008a, and WSI 2008b). Results of the year-long Study are provided in this report. Detailed construction and implementation methods, conclusions, and specific recommendations related to design and construction-related methods for the full-scale treatment wetland are also presented in this report. This report provides a final overall summary of the results of the Plant Establishment Study.

2.0 Study Site Description and Monitoring Methods

2.1 Description of the Study Site

2.1.1 System Location

The test cells were constructed on the south side of Lake Hancock as shown in **Exhibit 1-1**. This particular site was selected for the Study for the following reasons:

- The topography was favorable compared to other areas within the District's property boundary and would therefore require less excavation and earthwork.
- The site was relatively clear of thick vegetation and would consequently require minimal site clearing.
- The site was in close proximity to Lake Hancock so water could be piped a minimal distance from the lake and the site was accessible for subsequent monitoring events.
- The site had a relatively thick coverage of cogongrass making it more conducive to testing cogongrass-control techniques.
- The proposed system location had no impact on jurisdictional wetlands occurring within the District's property boundary.

2.2 System Construction

Construction of the Lake Hancock test cells began on June 11, 2007, and was substantially complete by June 22, 2007. **Exhibits 2-1** and **2-2** show the approximate dimensions of the test cells as well as the location of the inflow pipes, valves, water level recorders, and scaffold boardwalks. **Exhibit 2-3** shows the site following completion of construction (photo date June 27, 2007).

2.2.1 Wetland and Cogongrass Cells

Four cells, each approximately 0.25 acres in size, were constructed to assess wetland vegetation establishment techniques. These cells were designated as W-1, W-2, W-3, and W-4. The ground surface of Cells W-1 and W-2 was scraped to remove the thick layer of cogongrass (*Imperata cylindrica*). Cells W-3 and W-4 were constructed at a lower elevation by excavating and removing approximately 3 ft of soil and the associated cogongrass roots and rhizomes.



EXHIBIT 1-1

Site map showing the location of the Lake Hancock Plant Establishment Study Site

Two cells, designated as C-1 and C-2, were constructed to assess a variety of control strategies for cogongrass. The two cogongrass cells were smaller (0.11 ac each) than the wetland cells. The ground surface in the two cogongrass cells was left undisturbed so various cogongrass-removal techniques could be evaluated on actively growing cogongrass.

Perimeter berms (5-ft top width, 3-ft height) were constructed around the six cells to contain water. One scraped cell (W-1) and one excavated cell (W-3) were planted with nursery-grown wetland plants **(Exhibit 2-4)**. The other scraped (W-2) and excavated cell (W-4) were not planted so natural recruitment by volunteer plant species could be assessed on bare soil.

A deep water zone was excavated diagonally across each of the four wetland plots to promote even water distribution throughout each plot, provide easy access for water quality sample collection, and provide a sump in which particulates could settle out (**Exhibits 2-1** and **2-2**).

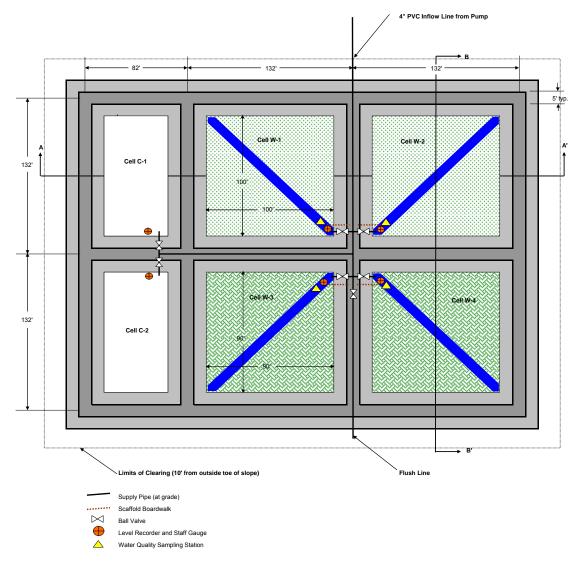


EXHIBIT 2-1 Detailed layout of the Lake Hancock Plant Establishment Study site

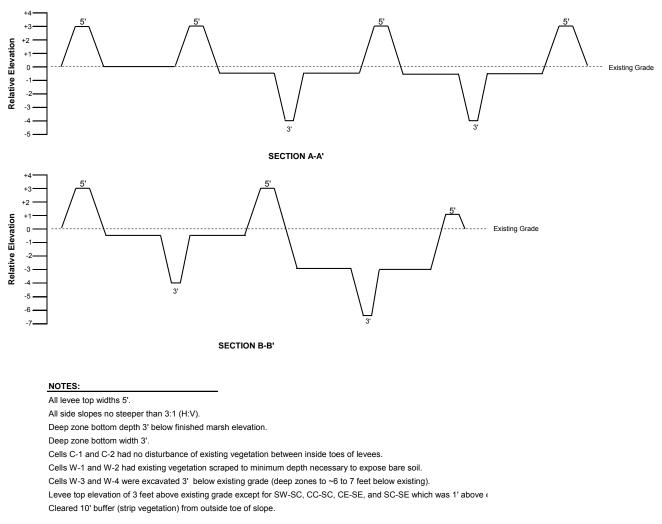


EXHIBIT 2-2

Approximate cross-section view of the Lake Hancock Plant Establishment Study test cells

2.2.2 Pump and Piping

A portable, 4-inch (16 Hp), gas-operated pump (**Exhibit 2-5**) was used to transfer water from Lake Hancock to the test cells. A 4-inch diameter intake pipe was constructed from a 10-foot section of perforated drainage pipe attached to Schedule 40 PVC solid-wall pipe. The solid pipe was connected to a 20-foot length of PVC suction hose with quick-connect fittings and attached to the suction side of the pump. The discharge piping included a 30-foot section of 4-inch diameter collapsible hose which was connected to solid-wall 4-inch diameter PVC pipe. The discharge pipeline extended to the test cells above ground and buried under the road where inflows to each cell were regulated with 3-inch ball valves (**Exhibit 2-6**). The inflow pump was stored in an on-site shed and connected to the transfer pipeline only during pumping events.



EXHIBIT 2-3

Aerial photograph of the Lake Hancock Plant Establishment Study site following completion of construction. (Photograph taken June 27, 2007.) Cells W-1 and W-3 were planted. Diagonal deep zones, inflow piping, and access boardwalks are shown. Each of the four wetland cells has a design wetted surface area of 930 m². The two cogongrass cells (C-1 and C-2) have a design surface area of 465 m² each.

EXHIBIT 2-4

Vegetation Planting Plan for Cells W-2 and W-4 at the Lake Hancock Plant Establishment Study site

| Plant Species | % of Planting | # Plants per Cell | Total # of Plants | |
|---|------------------|----------------------|----------------------|--|
| Pickerelweed (Pontederia cordata) | 16 | 200 | 400 | |
| Duck potato (Sagittaria lancifolia) | 14 | 175 | 350 | |
| Arrowhead (Sagittaria latifolia) | 14 | 175 | 350 | |
| Fireflag (Thalia geniculata) | 14 | 175 | 350 | |
| Giant bulrush (Schoenoplectus californicus) | 14 | 175 | 350 | |
| Spikerush (Eleocharis cellulosa) | 14 | 175 | 350 | |
| Sawgrass (Cladium jamaicense) | 14 | 175 | 350 | |
| Total | 100 | 1,250 | 2,500 | |

2.2.3 Instrumentation, Sampling Platforms, and Fence

Scaffold boardwalks were installed in each of the four wetland cells to provide access to collect water quality samples and download water level recorders. The platforms extended from the central north/south berm outward to the deep water zones.

Continuous water level recorders (Infinities USA) and staff gauges (Stevens, Type C) were installed in each plot to track water levels during the study. **Exhibit 2-7** shows the typical installation of an Infinities USA water level recorder, staff gauge, and access boardwalk.

A field fence was installed around the outside toe of slope of the perimeter berms to prevent cows, hogs, and other unwanted wildlife from disturbing the experimental cells and potentially breaking pipes and uprooting vegetation during the Study.



EXHIBIT 2-5 4-inch 16-HP Pump Used to Pump Water from Lake Hancock to the Plant Establishment Study Cells



EXHIBIT 2-6 Water Distribution Pipes at the Lake Hancock Plant Establishment Study Cells



EXHIBIT 2-7

Water Level Recorder, Staff Gauge, Water Distribution Pipe, and Sampling Boardwalk at the Lake Hancock Plant Establishment Study Cells

2.2.4 Vegetation Planting

Approximately 2,500 bare root emergent plants were installed on 3-ft centers in Cells W-1 and W-3 on June 21, 2007. This design allowed assessment of plant establishment in a scraped cell (Cell W-1) and in an excavated cell (Cell W-3). The plant list and quantity of each species is provided on **Exhibit 2-4.** Plant material was purchased from and installed by Aquatic Plants of Florida, Inc. and was delivered as healthy bare-root seedlings. Individual plant species were installed in linear zones across both W-1 and W-3 (**Exhibits 2-8**). Zone borders were clearly staked so that the plants could be installed in the proper zones and so competition between species could be monitored. Plant zones and the overall experimental design are depicted on **Exhibit 2-9**. No plants were installed in W-2, W-4, or the two cogongrass treatment cells (C-1 and C-2).



EXHIBIT 2-8 Plant Zones at the Lake Hancock Plant Establishment Study Site

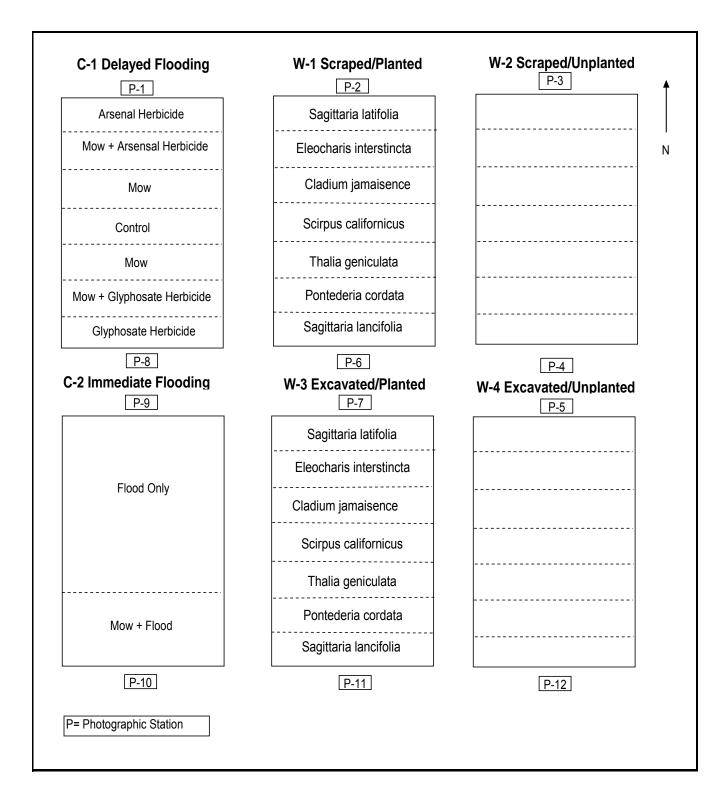


EXHIBIT 2-9

Experimental Design of the Test Cells for the Lake Hancock Vegetation Establishment Study

2.3 Hydrologic Monitoring

Water from Lake Hancock was pumped to Cells W-1, W-2, W-3, W-4, and C-2 on a five to seven-day interval through the 12-month duration of this study from June 2007 through May 2008. Hydration to Cell C-1 was delayed until November 26, 2007 and continued on an approximately seven-day pumping interval through May 2008. Pumping was more frequent during the first part of the study to compensate for water loss through infiltration, evaporation, and low rainfall. Increased rainfall during the second half of the study reduced the need for supplemental water additions.

Target water levels were established in each cell to provide a suitable hydroperiod for survival and growth of planted species in Cells W-1 and W-3, encourage natural recruitment of wetland plants in all four wetland cells, and to examine the effects of flooding on the health of cogongrass in the two cogongrass cells. The variable ground surface elevations in all six cells resulted in a range of water depths in each cell depending on water stage. Cells were initially saturated with minimal standing water to encourage rapid growth of planted and recruiting plants. Following about one month of saturated conditions, water surface elevations were raised to produce approximately 2 – 10 inches of standing water. These initial water stages were maintained until November 2007 when the target water levels were lowered to encourage greater volunteer recruitment, more rapid growth of the planted wetland species, and to account for lower evapotranspiration rates during winter months. The lowered target water levels equated to approximately 0 - 8 inches of standing water in each cell. In March 2008, the target water levels were increased slightly (to approximately 4 - 12 inches of standing water) to favor the obligate wetland species that were recruiting and to discourage the spread of cogongrass and other upland species in the raised portions of the wetland cells, particularly W-2.

Water levels were automatically recorded on an hourly basis using Infinities USA water level recorders. Water level data were downloaded from the six water level recorders approximately monthly. Staff gage readings were recorded from the adjacent gages when each recorder was downloaded. The time of day was also recorded at each download event.

2.4 Vegetation Monitoring

Monthly vegetation monitoring occurred during the 12-month study, with a baseline monitoring event in June 2007 and the final monitoring event in May 2008. Plant cover was estimated in 21 subplots (seven zones per cell and each zone divided into thirds) within each of the four wetland cells and cell C-1 by visually estimating the percent of each subplot that was covered by each species of vegetation. Percent cover was also estimated in the two cogongrass treatment plots in C-2. These monitoring plots are depicted in **Exhibit 2-9**.

Percent cover was estimated using the cover classification categories as follows:

| 0 = none | 5 = 25 - 50% cover |
|--------------------|--------------------|
| 1 = <1% cover | 6 = 50 - 75% cover |
| 2 = 1 -5 % cover | 7 = 75 - 90% cover |
| 3 = 5 - 10% cover | 8 = 90 - 95% cover |
| 4 = 10 - 25% cover | 9 = >95% cover |

Raw plant cover data were analyzed to calculate total percent cover within each wetland cell by averaging species cover by subplot (n=21). As plants began recruiting and occupying more area within the wetland cells, a data check was needed to ensure that the percent cover computations were reflecting the overall estimated cover within each cell. Beginning in October 2007, total percent cover for all plant species within each cell was visually estimated using the above cover categories. Those independent estimates were used to provide a quality check for all plant species combined and to compare the visually estimated total vegetation coverage in each plot with the computed total vegetation coverage (using n = 21). Based on this comparison, historic species cover field estimates were adjusted to better reflect overall lower visual estimates.

Additional vegetation monitoring was implemented in Cells C-1, C-2, and four additional cogongrass plots (see **Exhibit 2-3**) to further assess the effectiveness of the cogongrass control strategies. Degree of cogongrass die-back was evaluated by estimating the percent of the plot with green (i.e., unaffected) cogongrass, yellow/brown (i.e., stressed, dieing, or dead) cogongrass, and bare ground (i.e., dead and decomposed cogongrass). The percent of cogongrass in each of these three categories was estimated using the cover classifications as described above. There were no modifications made to the cogongrass die-back dataset because cover estimates were only made for cogongrass dieback, rather than for multiple species.

Photographs were taken during each monthly vegetation monitoring event from the 12 designated photo stations depicted by "P" at the end of each cell as shown in **Exhibit 2-9.** A photographic record comparing changes in the experimental cells at time 0 and after four, eight, and 12 months of growth is presented in **Appendix A**.

2.5 Water Quality Monitoring

Water quality parameters, consisting of both field and laboratory parameters, were measured monthly in the deep zone of each of the four wetland cells, in C-2, and at the edge of Lake Hancock during the 12-month study to determine water quality effects on plant growth, evaluate startup nutrient releases from soils, estimate wetland performance, and provide data to update performance estimates for the full-scale project. Water quality parameters were also measured monthly in cell C-1, the delayed hydration cell, beginning in December 2007 and extending through May 2008. The measured field parameters,

measurement equipment, and field methods are listed in **Exhibit 2-10** and laboratory parameters and associated methods are listed on **Exhibit 2-11**.

Unpreserved sample bottles were used to collect water samples just below the water surface. The water sample from the unpreserved bottle was then poured into the preserved sample containers. All samples were collected carefully to avoid entrainment of plants and floating sediments in the water column. A quality control duplicate sample was collected for analysis during each monthly sampling event. Water samples requiring filtration were filtered in the lab. Following collection, samples were preserved on ice and delivered to the analytical laboratory within the required holding times as noted on **Exhibit 2-11**. Advanced Environmental Laboratories, Inc. (AEL) in Gainesville, Florida performed the water analyses. Chain-of-custody documentation accompanied the water samples that were transported to the laboratory.

2.6 Soil Sampling

Shortly after initial flooding, high phosphorus (P) levels were detected in water samples from the experimental plots. Because the phosphorus concentrations measured in water at Lake Hancock was lower than the initial concentrations in the cells, it appeared that phosphorus was being released from the soil substrate during flooding. To verify this assumption soils were collected from the cells for chemical analysis.

Two soil sampling events were added to the field sampling regime mid-way through this Study to characterize P concentrations in the soils and to better estimate the effects of soil P levels on startup P concentrations in the full-scale wetland. Soil samples were collected in October 2007 and January 2008 and analyzed for total inorganic P (TIP), total phosphorus (TP), sulfate (SO₄), aluminum (Al), calcium (Ca), iron (Fe), bulk density, and dry weight solids. During comparison of the two data sets it appeared that TIP from the October data set was unrealistically low compared to expectations for this soil and compared to the January 2008 data. After scrutinizing the laboratory data, laboratory methods, and laboratory protocols, it was concluded that the problem was a laboratory error. Because the laboratory had not retained the October soil samples, they agreed to rerun another set of soil samples at no additional charge. Therefore a third set of soil samples were collected in April 2008 and analyzed for TIP and TP.

Soil samples were collected by first removing the soil surface layer and then collecting a sample from an approximate depth of 2 – 10 inches. Three soil samples were collected from the cell bottom in each of the six experimental cells and then composited to form one composite soil sample from each cell. The October 2007 sampling event occurred prior to flooding in C-1, providing a soil sample from a cell with no prior flooding. Because no construction disturbance occurred within the cell bottom of cells C-1 and C-2, these two cells provided samples from undisturbed soils. A soil sample outside of the fenced-in study area was collected in April to serve as an additional soil sample that was not flooded. Analytes of concern, analysis methods, and detection limits are listed in **Exhibit 2-11**. Samples were delivered to the analytical laboratory within the required holding times as noted on **Exhibit 2-11**. Soil analyses were performed by AEL. Chain-of-custody forms accompanied the soil samples that were transported to the laboratory.

2.7 Cogongrass Eradication Experimental Plots

Cogongrass experiments were implemented to assess whether cogongrass could be extirpated by flooding alone rather than by more expensive site preparation methods such as mowing, herbicide application, scraping, or excavating the ground surface. Multiple cogongrass control strategies and two flooding scenarios were implemented in the two cogongrass cells (C-1 and C-2) during the initial startup in June and July 2007. Four additional cogongrass plots were established outside of the fenced Study to assess herbicide efficacy on vigorously growing cogongrass. These four additional cogongrass plots were circular and approximately 10 ft in diameter. The experimental methods are described in **Exhibit 2-12**. The experimental design was described above in Section 2.1 and is visually depicted on **Exhibit 2-9**.

Flooding was initiated in Cell C-1, the delayed flooding cell, on November 20, 2007. Several cogongrass treatment methods were implemented in Cell C-1 in preparation for the delayed flooding event as noted on **Exhibits 2-9 and 2-12**. The herbicide, Gly-Star, was reapplied to the "Gly-Star Herbicide Only" and "Mow + Gly-Star Herbicide" plots in C-1 on November 14, 2007. The two "Mow Only" plots in C-1 were also mowed for a second time on November 14, 2007.

EXHIBIT 2-10

Summary of Field Parameter Methods and Standards for the Lake Hancock Plant Establishment Study

| Field Parameter | Equipment ^a | Method | | |
|-------------------------------------|--|------------------------------|--|--|
| Water Temperature | YSI 556 | FT 1400 | | |
| Dissolved Oxygen | d Oxygen YSI 556 Air Calibrate, FT 150 | | | |
| рН | YSI 556 | 4, 7, and 10 units, FT 1100 | | |
| Conductivity / Specific Conductance | YSI 556 | 1000 µmhos/cm @25°C, FT 1200 | | |

^a or with comparable meter

^b FT-series SOPs (Field Testing & Calibration) in "DEP Standard Operating Procedures for Field Activities", January 1, 2002. (DEP-SOP-001/01)

EXHIBIT 2-11

Water Quality and Soil Parameters, Analysis Methods, and Reporting Limits for the Lake Hancock Plant Establishment Study

| Water Parameter | Method | Reporting Limit | Holding Time | Preservative |
|---|-------------------------|-----------------|--------------|---------------------------------------|
| Organic Nitrogen | Calculated ^a | 0.1 mg/L | 28 Days | |
| Total Nitrogen | Calculated ^b | 0.1 mg/L | 28 Days | |
| Total ammonia-N | EPA 350.1 | 0.01 mg/L | 28 Days | H ₂ SO ₄ , <4°C |
| Total Kjeldahl N | EPA 351.2 | 0.1 mg/L | 28 Days | H ₂ SO ₄ , <4°C |
| Total Kjeldahl N - Dissolved ^c | EPA 351.2 | 0.1 mg/L | 28 Days | H₂SO₄, <4°C |
| Nitrate+Nitrite-N | EPA 353.2 | 0.004 mg/L | 28 Days | H ₂ SO ₄ , <4°C |
| Ortho-phosphorus | EPA 365.2 | 0.004 mg/L | 48 Hours | <4°C |
| Total Phosphorus | EPA 365.1/365.3 | 0.004 mg/L | 28 Days | H ₂ SO ₄ , <4°C |
| Total Suspended Solids | EPA 160.2 | 2 mg/L | 7 Days | <4°C |
| Sulfate | EPA 375.4 | 1 mg/L | 28 Days | <4°C |
| Calcium | EPA 200.7/6010 (ICP) | 0.05 mg/L | 180 Days | HNO ₃ , <4°C |
| Aluminum | EPA 200.7 | 50 ug/L | 180 Days | HNO ₃ , <4°C |
| Iron | EPA 200.7/6010 (ICP) | 50 ug/L | 180 Days | HNO3, <4oC |

| Method | Reporting Limit | Holding Time | Preservative |
|-----------------|---|--|---|
| IFAS | 1.0 mg/kg | 28 Days | <4°C |
| IFAS | 1.0 mg/kg | 48 Hours | <4°C |
| EPA 375.4 | 40 mg/kg | 28 days | <4°C |
| EPA 6010B (ICP) | 0.002 mg/kg | 6 Months | <4°C |
| EPA 6010B (ICP) | 3.6 mg/kg | 6 Months | <4°C |
| EPA 6010B (ICP) | 0.1 mg/kg | 6 Months | <4°C |
| - | IFAS IFAS EPA 375.4 EPA 6010B (ICP) EPA 6010B (ICP) | IFAS 1.0 mg/kg IFAS 1.0 mg/kg EPA 375.4 40 mg/kg EPA 6010B (ICP) 0.002 mg/kg EPA 6010B (ICP) 3.6 mg/kg | IFAS 1.0 mg/kg 28 Days IFAS 1.0 mg/kg 48 Hours EPA 375.4 40 mg/kg 28 days EPA 6010B (ICP) 0.002 mg/kg 6 Months EPA 6010B (ICP) 3.6 mg/kg 6 Months |

^a = Calculated as Total Kjeldahl N - Total Ammonia-N

^b = Calculated as Total Kjeldahl N + (Nitrate + Nitrite N)

^c = Sample was Preserved After Lab Filtration

EXHIBIT 2-12

| Cogongrass Control Strategies at the Lake Hancock Plant Establishment S | tudu |
|---|-------|
| COUDINIASS CUTIEN SUBJECTES AL THE LAKE MAINUUK FIANT ESTAVIISTINETIL S | งเนนง |

| Cell | Control Strategy | ake Hancock Plant Establishment Study Implementation Methodology | | | | |
|--|--|--|--|--|--|--|
| C-1 | Arsenal herbicide; flooding delayed 4 months | A 4% solution of 28.7% of the active ingredient Imazapyr (5.1 oz per gallon of water) was formulated. The surfactant, Lastick, was added to the Arsenal/water mixture (2 tablespoons per gallon). The herbicide was applied to a 50 ft wide by 12.5 ft long plot using a backpack sprayer on 6/20/07. Weather conditions were hot, dry, and a very light breeze. Flooding began on 11/26/07. | | | | |
| C-1 | Mow + Arsenal herbicide; flooding delayed 4 months | A 50-ft wide by 12.5-ft long plot was mowed to a height of 10 in or less on $6/20/07$ and again on $10/11/07$ using a hand-held weed-eater. Arsenal herbicide was applied to the mowed plot at the rate noted above one month after mowing on $7/17/07$ when the cogongrass was vigorously growing. Flooding began on $11/26/07$. | | | | |
| C-1 | Gly Star Plus herbicide; flooding delayed 4 months | A 4% solution of 41% of the active ingredient Glyphosate (5.3 oz per gallon of water) was formulated. The herbicide was applied to a 50 ft wide by 12.5 ft long plot using a backpack sprayer on 6/20/07. Weather conditions were hot, dry, and a very light breeze. Gly Star Plus was reapplied at the above rate on 11/14/07. Flooding began on 11/26/07. | | | | |
| C-1 | Mow + Gly Star Plus herbicide; flooding delayed 4 months | A 50-ft wide by 12.5-ft long plot was mowed to a height of 10 in or less on 6/20/07 and again on 10/11/07 using a hand-held weed-eater. Gly Star Plus herbicide was applied to the mowed plot at the rate noted above one month later on 7/17/07 and 11/14/07 when the cogongrass was vigorously growing. Flooding began on 11/26/07. | | | | |
| C-1 | Mow; flooding delayed 4 months | Two 50-ft wide by 12.5-ft long plots were mowed to a height of 10 in or less on $6/20/07$ using a hand-held weed-eater. The plot was mowed again on $11/14/07$ in preparation for flooding C-1. Flooding began on $11/26/07$. | | | | |
| C-1 | Control; flooding delayed 4 months | The existing cogongrass was left undisturbed to compare the effects of delayed flooding in the absence of other cogongrass control strategies. Flooding began on 11/26/07. | | | | |
| C-2 | Mow + immediate flooding | A 50-ft wide by 30-ft long plot was mowed to a height of 10 in or less on 6/26/07 using a hand-held weed-eater. Flooding commenced on 7/21/07, but has been intermittent due to water loss. The 50-ft wide by 30-ft long plot was again mowed on 7/17/07 and 9/13/07 using a hand-held weed-eater. | | | | |
| C-2 | Immediate flooding | Flooding commenced on 6/21/07 in the 50-ft wide by 70-ft long cell but has been intermittent due to water loss. | | | | |
| Four Additional Vigorously Growing Cogongrass Plots | Arsenal herbicide; no flooding | 5.1 oz of 28.7 % of the active ingredient, Imazapryl, was added to 1 gallon of water. The surfactant, Lastick, was added to the arsenal/water mixture at a rate of 2 tablespoons per gallon. The herbicide was applied to four circular plots with an approximate diameter of 10 ft using a backpack sprayer on 6/20/07. Weather conditions were hot, dry, and a very light breeze. | | | | |

3.0 Results

3.1 Hydrology

Exhibits 3-1 through **3-3** depict the continuous hydrographs for the four wetland cells and the two cogongrass cells beginning with the initial hydration event right after construction in June 2007 and through the 12-month duration of this study. Average ground elevation within each cell and rainfall from the nearby P-11 rain gauge have been added to these hydrographs. Flooding in Cell C-1, the delayed hydration cell, began in November 2007.

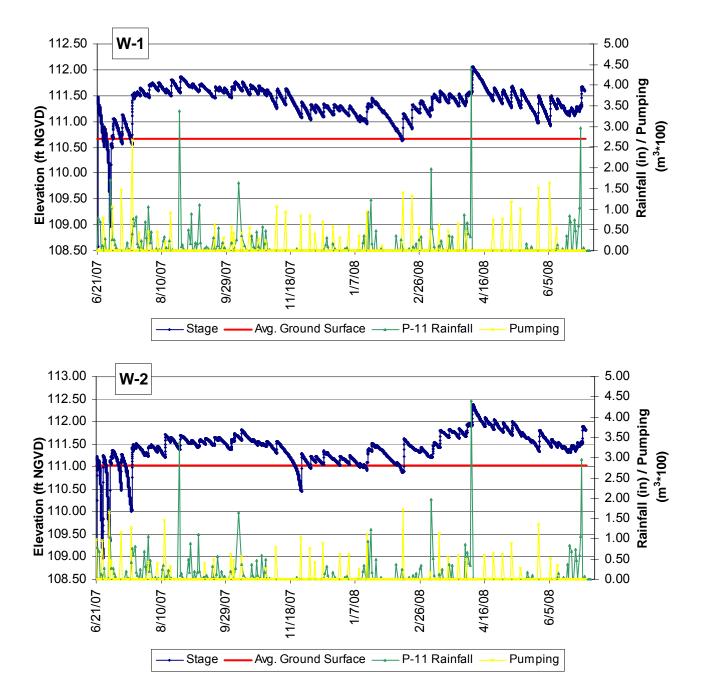
Water levels in the two scraped cells (W-1 and W-2) and the two excavated cells (W-3 and W-4) fluctuated during the first month of operation when lake water pumping into the cells began (Exhibits 3-1 and 3-2). By mid-July, the cells began retaining water and remained almost continuously inundated through May 2008 in response to rain events and supplemental hydration from pumping events.

Water levels declined in late November 2007 in response to a deliberate reduction in pumping to reduce the target water levels and the onset of the dry season. Target water levels were established in each wetland cell to provide a shallow inundation regime necessary to support the planted wetland species in Cells W-1 and W-3 and to encourage natural recruitment of wetland plant species in all four wetland cells. Because the ground level is uneven in the wetland cells, the initial target water levels translated into a water depth range of roughly 0.6 ft in each cell.

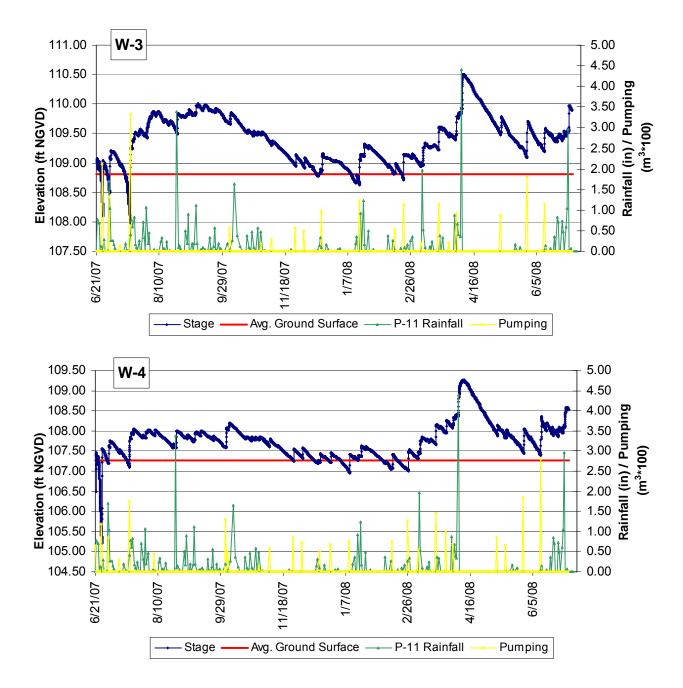
Field observations revealed that natural wetland plant recruitment was only occurring in the shallowest zones, primarily along the toe of slope and in the raised areas where shallow inundation occurred. In late November, 2007 the target water levels were adjusted downward to encourage additional volunteer plant recruitment in broader areas within the experimental cells, by reducing the deep areas and creating more shallow inundation areas. Target water levels were increased in March 2008 (to approximately 4 – 12 inches of standing water) to favor the obligate wetland species that were recruiting and to discourage the spread of cogongrass in the raised portions of the wetland cells, particularly W-2. The hydrographs of the four wetland cells illustrate the reduction in water levels in late November 2007 and increase in target water levels in March 2008 (**Exhibits 3-1 and 3-2**).

Water level in C-1, the delayed flooding cogongrass cell, fluctuated widely since artificial hydration began in November 2007 (**Exhibit 3-3**). This fluctuation was likely caused by a high rate of infiltration, a lag-time required to reach a water table equilibrium, and weekly (rather than more frequent) pumping events. Like C-1, the water level in C-2, the flooded cogongrass cell, fluctuated widely (**Exhibit 3-3**). Therefore, pumping was often concentrated in the two cogongrass cells since they were not as efficient at retaining water.

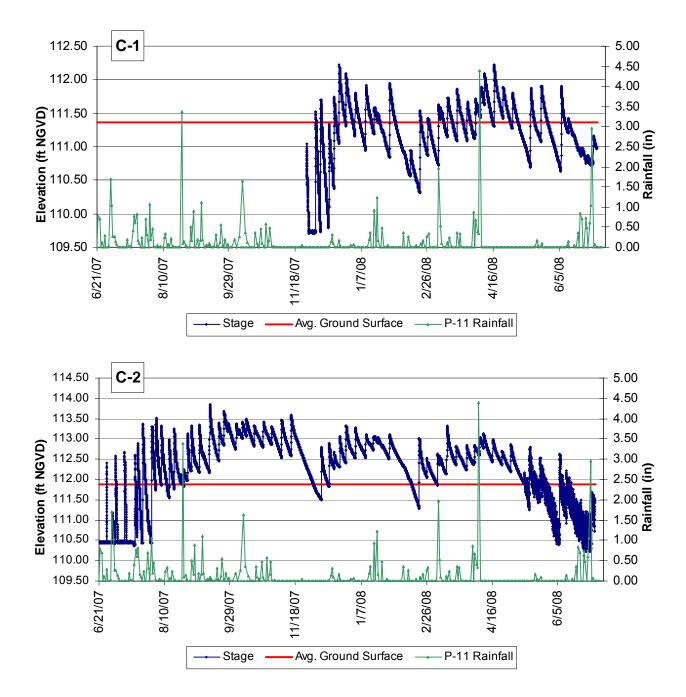
A water budget was developed to quantify the volume of water added to the four wetland cells with regards to rainfall and artificial hydration with lake water. The volume and percent of rain water and lake water added to each cell is summarized on **Exhibit 3-4**. Graphs illustrating the period-of-record time-series and cumulative inflow of water and the stage-frequency curves for the four wetland cells are provided in **Appendix B**.



Time Series of Hourly Water Levels, Average Ground Elevation, Rainfall, and Pumpage in Wetland Cell W-1(Scraped and Planted Cell) and W-2 (Scraped and Unplanted Cell) of the Lake Hancock Plant Establishment Study from June, 2007 through June 2008. Rainfall Data are from the nearby P-11 Structure.



Time Series of Hourly Water Levels, Average Ground Elevation, Rainfall, and Pumpage in Wetland Cell W-3 (Excavated and Planted Cell) and W-4 (Excavated and Unplanted Cell) of the Lake Hancock Plant Establishment Study from June 2007 through June 2008. Rainfall Data are from the nearby P-11 Structure.



Time Series of Hourly Water Levels, Average Ground Elevation, Rainfall, and Pumpage in Wetland Cell C-1 (Delayed Flooding Cogongrass Cell) and C-2 (Immediately Flooded Cogongrass Cell) of the Lake Hancock Plant Establishment Study from June, 2007 through June 2008. Rainfall Data are from the nearby P-11 Structure

Since there were no surface overflows of water from the cells their total water losses were approximately equal to the total estimated inflows in Exhibit 3-4. The total water net losses ranged from 3,136 to 4,537 m³/yr during this study. This equates to total water net loss rates averaging about 1.3 and 1.2 cm/d in cells W-1 and W-2 and 0.92 and 1.0 cm/d in cells W-3 and W-4. These net water loss rates are considerably higher than what would be expected due to evapotranspiration alone (approximately 0.33 cm/d reported for 2007 at the Dover station).

Over the 12-month study, a higher volume of lake water was pumped into the two scraped cells, W-1 and W-2, (2,829 to 3,315 m³) as compared to the two excavated cells (1,914 to 2,306 m³) (Exhibit 3-4). Pumping accounted for about 70 to 73 percent of the inflow water to the two scraped cells as compared to about 61 to 65 percent to the two excavated cells. Estimated direct rainfall contributed the remaining fraction of the water inflows to the cells. None of the experimental cells had any discharges of surface water during the period of this study.

The targeted water levels were generally achieved during each weekly pumping event. On few occasions, a full day of pumping could not raise the water level in all cells to the target point when a substantial decline in the water level occurred due to lack of rainfall and high evapotranspiration rates. On other occasions, pumping was not implemented to those cells (generally the two excavated cells, W-3 and W-4) when the water level was at or above the target level. The two scraped cells required more supplemental water to retain the target water levels presumably due to greater leakage through the separating berm from the higher ground surface in the two scraped cells to the lower ground surface in the two excavated cells. Water loss from the two scraped cells could also have occurred from slightly greater vertical permeability and higher evapotranspiration since the surface area in the two scraped cells was slightly greater than the two excavated cells.

EXHIBIT 3-4

Summary of Estimated Rainfall and Lake Water Added to the Wetland Cells of the Lake Hancock Plant Establishment Study from June 2007 through June 2008. Rainfall Data are from the nearby P-11 Structure. (the approximate wetted area of each cell was 930 m²)

| | Volume of Added Water (m ³) | | | Volume of Added Water (%) | | |
|-------------------------------|---|---------|-------|---------------------------|---------|-------|
| Cell | Rainfall | Pumping | Total | Rainfall | Pumping | Total |
| W-1 (scraped and planted) | 1222 | 3315 | 4537 | 27 | 73 | 100 |
| W-2 (scraped and unplanted) | 1222 | 2829 | 4050 | 30 | 70 | 100 |
| W-3 (excavated and planted) | 1222 | 1914 | 3136 | 39 | 61 | 100 |
| W-4 (excavated and unplanted) | 1222 | 2306 | 3528 | 35 | 65 | 100 |

3.2 Vegetation Monitoring

Vegetative cover was monitored monthly to assess how various hydroperiods (depth and duration of flooding) and site conditions (bottom elevation, planted, unplanted) affected the

establishment, recruitment, and succession of vegetation in the wetland cells. Graphs depicting total vegetative cover, temporal cover of planted species, final cover of planted species, cover of cogongrass, and cover of recruited species over the 12-month study period are provided in **Exhibits 3-5**, **3-6**, **3-7**, **3-8**, **and 3-9** respectively.

Total vegetative cover, which consisted of both planted and naturally recruited species, was low (<1 percent) during the initial monitoring event in June, 2007 following construction. The only plants present during the baseline monitoring event were those seven species that were planted in cells W-1 and W-3. Rapid growth of most of the planted species and recruitment of wetland-adapted species occurred during the first five months after establishment and corresponded to an active growing season from June through November 2007. By May 2008 the two planted cells, W-1 and W-3, exhibited about 70 to 75 percent vegetative cover (Exhibit 3-5). The plant cover consisted of both a high coverage of planted species and moderate recruitment of wetland species around the toe of the slope and in the shallow portions of the cells. The two unplanted cells, W-2 and W-4, exhibited a lower total vegetative cover of plants. Coverage was highest near the toe of slope and on shallower areas within the two cells. By May 2008, total plant cover was higher in the scraped cell W-2 (40 percent) than in the excavated cell W-4 (30 percent). Qualitative observations in early July 2008 of Cell W-2 indicated about 90 percent total plant cover (much greater than the final quantitative estimate of 40 percent collected during May). Similarly, by July 2008 percent cover in Cell W-4 had increased to approximately 50 percent from 30 percent as reported during the last monitoring event in May 2008.

Total vegetative cover of plant species increased substantially during the 2007 growing season and then declined in February and March 2008 in response to a frost in early January that caused noticeable damage to the more sensitive species such as the various *Ludwigia* and *Cyperus* species. Some of the planted species (duck potato, arrowhead, fireflag, spikerush, and pickerelweed) also sustained frost damage, especially those individuals that were not inundated and not buffered by the standing water. (A list of planted species is provided in **Exhibit 2-4**). The plants then began vigorous growth in April and May 2008, which is depicted in a notable increase in total vegetative cover (**Exhibit 3-5**) and shown in the photographs in **Appendix A**.

Coverage of planted species peaked at over 60 percent cover in the two planted cells (W-1 and W-3) in November 2007, which marked the end of the 2007 growing season. After a temporary winter decline, the planted species increased again in April and May 2008 (Exhibit 3-6) to an estimated cover of about 60 percent in the scraped cell W-1 and 70 percent in the excavated cell W-3 by the end of the Study in May 2008.

Five of the seven planted species (duck potato, spikerush, fireflag, pickerelweed, and arrowhead) quickly established after planting and began vigorously growing in the wetland cells. With the exception of duck potato, those species flowered, fruited, and expanded laterally during the 12-month study period. Surprisingly, the other two planted species - bulrush and sawgrass - exhibited high initial mortality following planting and poor growth rates; however, their survival was slightly better in the excavated cell (W-3) than in the scraped cell (W-1). By the end of the 12-month study, four planted species stood out as the most successful with respect to survival, growth, and overall plant vigor. Of the four, three species – spikerush, pickerelweed, and fireflag exhibited over 80 percent cover within their planted zones at the end of the 12-month study period. Arrowhead had almost 70 percent

cover (Exhibit 3-7). The high rate of growth can be seen in the photographs in Appendix A for W-1 and W-3, the two planted cells. During the first half of the study, duck potato successfully established in its planted zone. However, spikerush, the most vigorously growing plant, expanded beyond its planting zone and encroached heavily into the duck potato zone. Consequently, duck potato declined substantially during the second half of this 12-month study.

Above-ground cover of cogongrass was almost completely removed during construction of the four wetland cells as indicated by zero percent cover of cogongrass during the baseline monitoring event (**Exhibit 3-8**). In Cell W-2, the scraped and unplanted cell, cogongrass began sprouting from residual rootstock and increased in cover after the first month of operation. Flooding has likely limited the re-establishment of cogongrass in the other cells. A raised portion on the western side of Cell W-2 was often without standing water, which allowed the cogongrass to survive and expand in that cell. Cogongrass has also re-established along the toe of slope in each cell. Cogongrass declined in W-2 in March 2008 after the target water level was increased in part to control cogongrass in this wetland cell. At the end of this 12-month study, coverage of cogongrass was satisfactorily controlled and remained at less than 3 percent cover in all four wetland cells.

Recruitment of wetland plant species (which does not include cogongrass) increased noticeably during the second half of the 12-month study as plant seeds dispersed, germinated, and grew. Cover of recruited species was highest in April and May 2008 in W-2 and W-4, the two unplanted cells (**Exhibit 3-9**). Competition by the planted species in Cells W-1 and W-3 likely limited natural recruitment in the two planted cells. Dominance of volunteer plant species continued in the two unplanted cells as more wetland plants matured and reproduced.

Natural recruitment by volunteer wetland plant species was most noticeable in Cells W-2 and W-4 where raised mounds and the toe of the side slopes provided more favorable (saturated but not deeply flooded) conditions for recruitment. Minimal recruitment of plants occurred initially where continual deeper inundation (i.e., > ~ 5-8 inches) occurred. Target water levels were dropped in November 2007 to approximately 0 – 8 inches to encourage additional natural recruitment. In March 2008 target water levels were raised to approximately 4 – 12 inches of standing water to favor the obligate wetland species that were recruiting (i.e., cattails) and to discourage the spread of cogongrass in the raised portions of the wetland cells, particularly W-2. Qualitative observations in Cell W-2 indicated about 90 percent total cover of volunteer plants within the twelve months since system construction was complete and less than five percent cover of cogongrass. After one year, 56 plant species had recruited into the wetland cells. As expected, early recruitment is manifested by early colonizing, fast growing, and often weedy species.

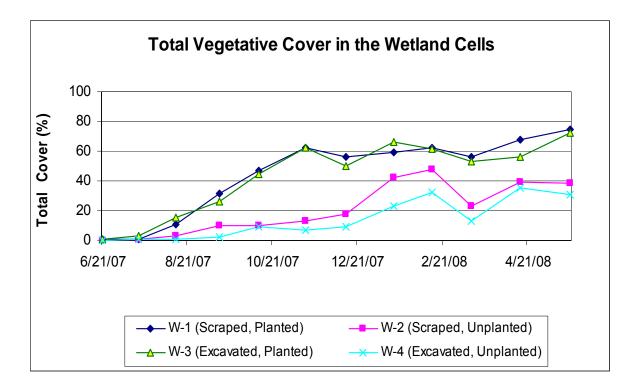
Natural recruitment clearly accelerated as the 12-month study progressed, especially in the saturated and shallow inundation areas. However, it was not clear what the most favorable hydroperiod should be to select for a high recruitment of wetland plant species. Therefore, ground elevations were measured at locations where multiple individuals of each plant species had recruited first in September 2007 and then in May 2008. The hydroperiod was then calculated for each dominant plant species (or genera) by plotting the range of elevations of occurrence with respect to specific water regime elevations. The water regime elevation is defined as

the elevation that exceeded the water level 10 percent of the time (or the elevation at which standing water occurred at least 90 percent of the time).

This comparison of elevations at which recruited (volunteer) plants were growing during May 2008 in relation to specific water regime elevations for a selected suite of wetland plants is presented by cell in **Appendix C**. The elevation range for the recruited plant species from all cells combined is illustrated in **Exhibit 3-10** The measured ground elevations of the plants depicted on **Exhibit 3-10** are shown in relation to P-50, which is the median water surface elevation (using an arbitrary zero equal to the estimated average ground elevation in each cell). Thus, plants measured above 0 were growing at an elevation higher than the median water elevation and plants shown below 0 were growing at an elevation below the median water elevation. The plant species are arranged on the graph from left to right with those species occurring at the highest elevation (drier) to those species occurring at the lowest elevations (wetter).

All of the recruited wetland species were growing slightly below the median water surface elevation, or the elevation at which standing water occurred at least 50 percent of the time (Exhibit 3-10). Several of the volunteer plant species were restricted to the areas with very shallow inundation and the shortest duration of inundation. These "more shallow inundation" species included Caesar weed (*Urena lobata*), amaranthus, (*Amaranthus* sp.), cyperus species (*Cyperus odoratus*, C. sp.), odorweed (*Pluchua odorata*), sicklepod (*Sesbania* sp.), Ludwigia species (*Ludwigia peruviana*, *L. octovalvis*, *L. decurrens*), eclipta (*Eclipta alba*), water dock (*Rumex crispus*), an unknown grass, smartweed (*Polygonum punctatum*), and Bermuda grass (*Cynodon dactylon*). Consequently, these data suggest that these early colonizing plant species will likely colonize the most shallow reaches of the large-scale constructed wetland, especially during the early operational period. These data also suggest that cogongrass could become established in the higher reaches of the large-scale wetland where inundation depth and duration is not sufficient to control this undesirable species.

Two desirable treatment wetland species – cattail (*Typha* sp) and water hyacinth (*Eichhornia crassipes*) – tended to recruit at elevations lower than the "more shallow inundation" species and consequently can tolerate somewhat deeper water and a longer duration of inundation. By the end of the one-year study these two species had the highest average cover of all volunteer plant species in the unplanted wetland cells. By May 2008 cattails had estimated cover values of approximately 12 percent in both unplanted cells while water hyacinth had estimated cover values of about 12 percent in W-2 and 9 percent in W-4 (**Appendix C**). It is expected that these two species will be common early recruits into the slightly deeper areas of the large-scale treatment wetland. Just as important, the data on **Exhibit 3-10** suggest that colonization tends to occur at median water depths not exceeding 0.7 – 0.8 ft, and that colonization of most species occurs at median water depths not exceeding 0.2 – 0.3 ft. The exception is water hyacinth, a floating species that can tolerate deeper water levels.



Total Vegetative Cover in the Wetland Cells of the Lake Hancock Plant Establishment Study from June 2007 through May 2008 (values include contributions of cogongrass)

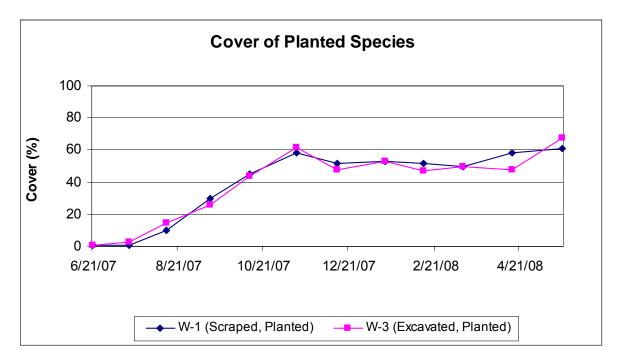
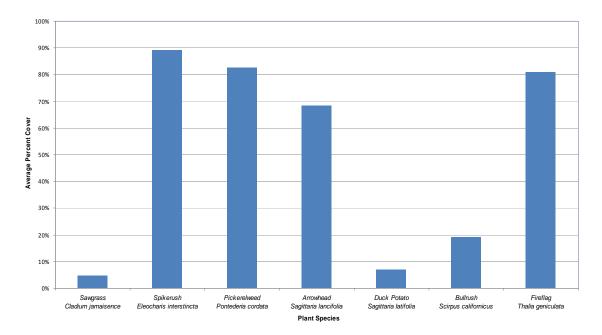


EXHIBIT 3-6

Cover of Planted Species in the Wetland Cells of the Lake Hancock Plant Establishment Study from June 2007 through May 2008





Total Cover of Each Planted Species in May 2007 at the end of the 12-month Study Period of the Lake Hancock Plant Establishment Study

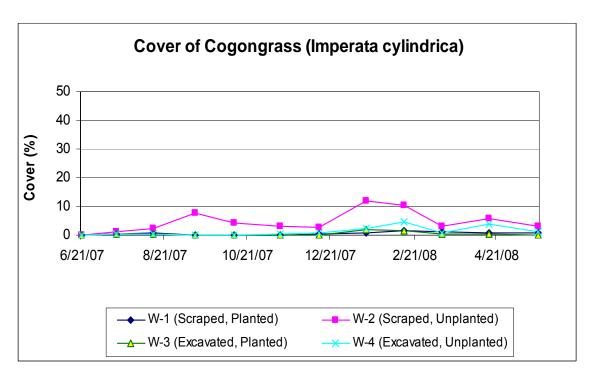
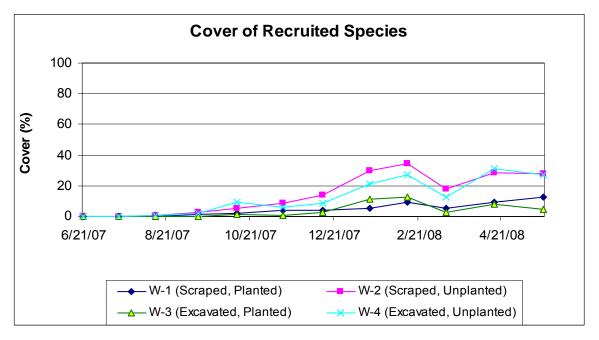
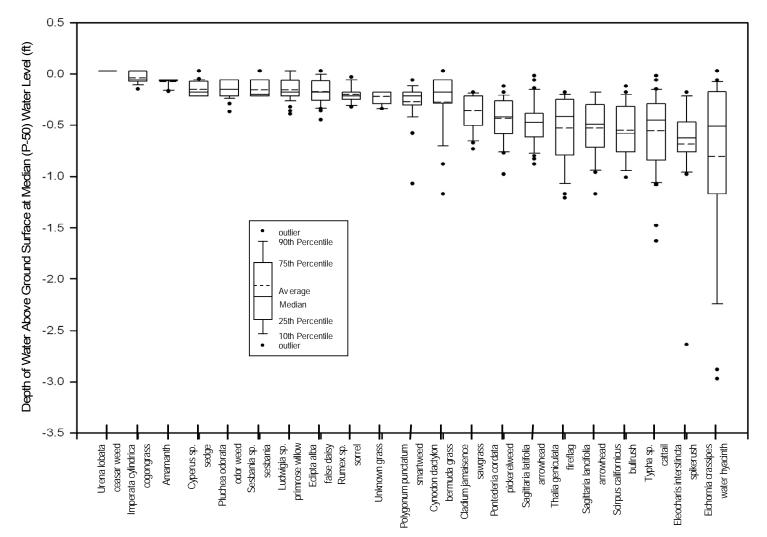


EXHIBIT 3-8

Cover of Cogongrass (*Imperata cylindrica*) in the Wetland Cells of the Lake Hancock Plant Establishment Study from June 2007 through May 2008



Cover of Recruited Species in the Wetland Cells of the Lake Hancock Plant Establishment Study from June 2007 through May 2008. Recruited species excludes cogongrass and planted species.



Summary of Water Depth Tolerance for Selected Recruited Plant Species in Wetland Cells W-1, W-2, W-3, and W-4 of the Lake Hancock Plant Establishment Study as measured in May 2008. Ground Elevation is Plotted Relative to the Median (P-50) Water Elevation, which is the Probability Not Exceeded Value (i.e., a 50 Percent Probability that the Water Level does not Exceed the P-50 Elevation). Ground Elevation of 0.0 is Equal to the Median Water Elevation, so 0.5 ft equates to 0.5 ft above the Median (P-50) Water Elevation

3.3 Cogongrass Study

Cogongrass cover in cells C-1 and C-2 was assessed monthly to determine the effectiveness of various cogongrass control techniques. Three cogongrass foliar conditions were evaluated and included green foliage (i.e., healthy), yellow/brown foliage (i.e., stressed or beginning to die), and bare ground (i.e., mortality and foliar decay). Graphical results of the observed response of the cogongrass foliar condition to the various management techniques are provided as **Exhibits 3-11, 3-12, and 3-13**.

3.3.1 Herbicide, Mowing, and Control; Cell C-1

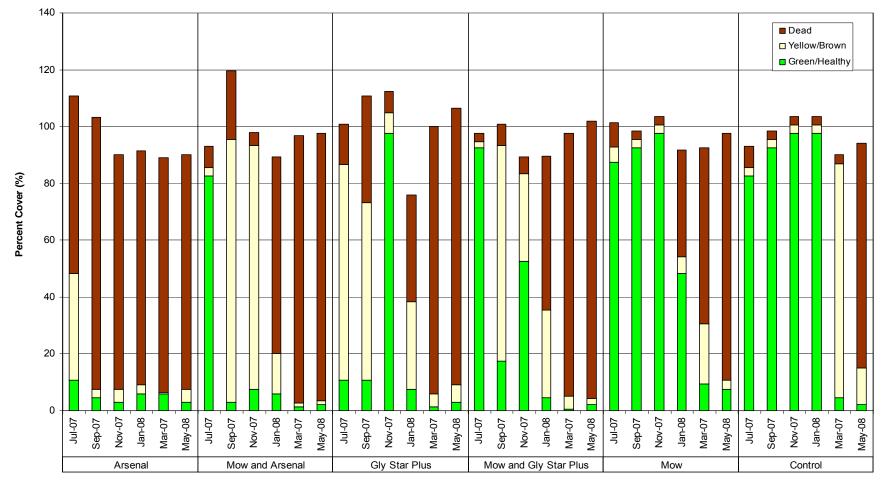
Five cogongrass management strategies and a control were implemented in Cell C-1, the delayed flooding cell, during the initial no-flood period. Flooding was delayed six months to simulate a potential construction/delayed flooding scenario, and began on November 26, 2007. The five cogongrass management strategies included Arsenal herbicide, Gly Star Plus herbicide, mowing followed by Arsenal herbicide, mowing followed by Gly Star Plus herbicide, and mowing.

The initial mowing and herbicide applications occurred in June and July 2007 at the onset of this study (specific dates noted on **Exhibit 2-5**). A second application of Gly Star Plus herbicide was applied to the two Gly Star Plus herbicide plots (Gly Star Plus, and mow + Gly Star Plus) on November 14, 2007 in preparation for the initial flood event in C-1, the delayed flooding cell. A second application of Arsenal was not applied to the Arsenal plots since Arsenal was providing a sufficiently high control of cogongrass.

Greatest continuous control of cogongrass occurred with Arsenal herbicide as shown by a high coverage of dead cogongrass and small coverage of the green/healthy cogongrass starting in July one month after the first herbicide application (**Exhibit 3-11**). Almost complete mortality of cogongrass was noted by September 2007, three months after the herbicide application. Mowing plus Arsenal also resulted in an almost complete elimination of cogongrass; however, final cogongrass mortality appeared to be triggered by the initiation of flooding in November 2007 rather than the mowing and/or herbicide treatment.

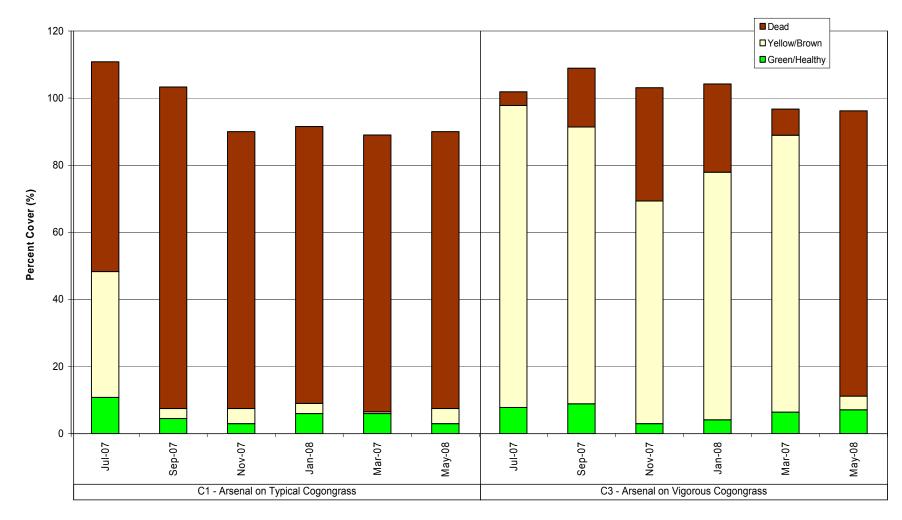
Gly Star Plus herbicide caused a moderate amount of the cogongrass to turn yellow and brown and then die; however, the control of cogongrass was short-lived and moderately effective for only four to five months after the June application. Almost complete mortality of cogongrass occurred after the second herbicide application (October 2007) concomitant with the delayed flooding event (November 2007). Likewise, mowing plus Gly Star Plus herbicide produced a moderate and short-lived control on the cogongrass until the second mow plus Gly Star Plus herbicide event and the delayed flooding in November. These observations suggest that subsequent stressors to the cogongrass (i.e., second mowing, second application of Gly Star Plus, and/or the onset of flooding) greatly increased the efficacy of the Gly Star Plus herbicide, which if applied singularly, would not have provided sufficient control of cogongrass. However, the single application of Arsenal provided a longer term control of cogongrass in the absence of flooding.

Cogongrass in the C-1 plot appeared thick and healthy when this study was implemented. However, the cogongrass growing outside the study cells was thicker, taller, and appeared

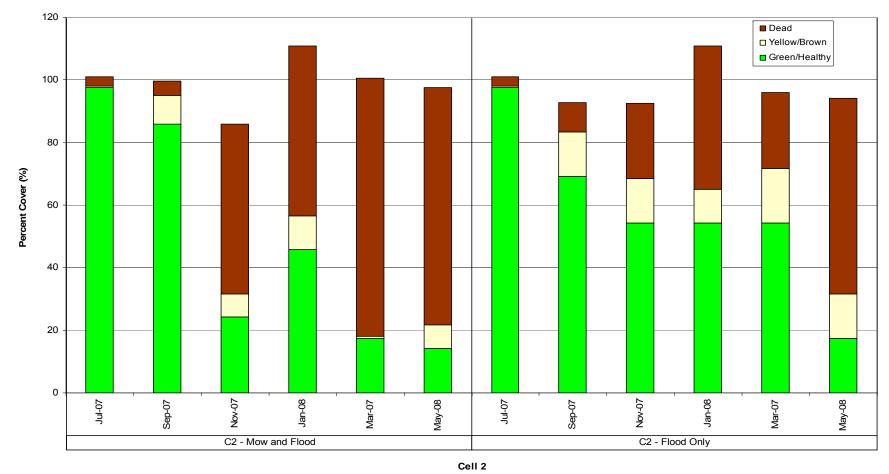


Cell 1 - Multiple Control Strategies with Delayed Flooding

Lake Hancock Vegetation Establishment Study – Coverage of Three Cogongrass Foliar Conditions (Green/Healthy, Yellow/Brown, and Dead) Using Multiple Control Strategies and Delayed Flooding in Cell C1. Flooding Began in November 2007 Six Months after Management Strategies were implemented.



Lake Hancock Vegetation Establishment Study – Coverage of Three Cogongrass Foliar Conditions (Green/Healthy, Yellow/Brown, and Dead) from the Application of Arsenal Herbicide on Typical Cogongrass (Cell C-1) and Vigorous Cogongrass (Cell C-3).



Lake Hancock Vegetation Establishment Study – Coverage of Three Cogongrass Foliar Conditions (Green/Healthy, Yellow/Brown, and Dead) in Cell C-2 Using Two Control Strategies: Mowing plus Immediate Flooding and Immediate Flooding Only.

more vigorous. Therefore, four additional Arsenal treatment plots were implemented to assess how well Arsenal could control more vigorous cogongrass with substantially more biomass. The location of the four additional cogongrass plots is shown on **Exhibit 2-3** and results of the additional Arsenal treatment plots are indicated as C-3 on **Exhibit 3-12**. The application of Arsenal to the vigorously growing cogongrass in C-3 produced a notable decline in the cogongrass as suggested by a high coverage of yellow/brown cogongrass foliage starting just one month after the June 2007 application. However, the cogongrass finally started to die.

3.3.2 Immediate Flooding; Cell C-2

Two flooding strategies were investigated to monitor various cogongrass control strategies, a delayed flooding scenario and an immediate flooding scenario. Results of the delayed flooding scenario, C1, are discussed above. Immediate flooding was implemented in C2, and began in July right after construction. Mowing was also implemented in a portion of C2 to assess whether mowing + immediate flooding was more effective at controlling cogongrass than immediate flooding alone.

Mowing followed by immediate flooding produced a somewhat higher mortality of cogongrass (about 25 – 60 percent) as compared to immediate flooding without mowing (about 45 percent) (**Exhibit 3-13**). Likewise, less green/healthy cogongrass was present in the mow plus immediate flooding throughout most of the 12-month study period as compared to the immediate flooding plot without mowing. However, mortality of both treatments was similar by the end of the study, with 75 percent mortality in the mow + immediate flood plot and 62 percent mortality in the immediate flood only plot.

High variability of cogongrass control was evident in C2 with areas of complete mortality next to areas with green/healthy cogongrass. The uneven ground topography in this plot affected the depth and duration of flooding and consequently the level of cogongrass control. Higher mortality of cogongrass occurred in low areas where cogongrass experienced deeper water levels for a longer duration. Mowing appeared to have accelerated the mortality of cogongrass when combined with flooding because it eliminated (although sometimes just temporarily) the amount of cogongrass biomass that extended above the water surface and consequently extract atmospheric oxygen.

3.4 Water Quality Monitoring

Water quality samples were collected monthly from the four wetland cells, the flooded cogongrass cell (C-2), and the Lake Hancock intake pipe area during the 12-month duration of the study. Collection of water quality samples in C-1, the delayed flooding cell, began in January once the cell began retaining water. Water quality data for field parameters and laboratory parameters are presented below.

3.4.1 Field Parameters

A summary of the field parameter water quality data is graphically presented as **Exhibits 3-14 through 3-16**. Tabulated water quality data summaries are provided in **Appendix D**. Water temperature reflected air temperature and was higher during late summer and fall and lower in the winter. Water temperature was often higher in Lake Hancock than in the

treatment cells presumably due to shading of the water surface by the plant cover (Exhibit 3-14).

Dissolved oxygen (DO) is influenced by the algal populations, biochemical oxygen demand, rotting vegetation, and seasonal sunlight and temperature patterns. DO as shown on **Exhibit 3-14**, is presented as percent saturation. DO measured during daylight hours in Lake Hancock source water generally exceeded 100 percent, presumably as a result of the high productivity of the planktonic algae in the lake which supersaturated the water with oxygen during daylight hours. In contrast, it is likely that nighttime DO concentrations in Lake Hancock were low due to algal respiration, reaching their lowest concentration just before dawn. DO concentrations in W-1, W-2, W-3, and W-4 sometimes exceeded 100 percent **(Exhibit 3-14)** and DO saturation values in these cells declined to 50 percent or less during the final three months of monitoring. Visual observations suggest that algal populations initially increased in the study cells, resulting in higher diurnal DO concentrations during the first nine months of monitoring and then declined as emergent macrophyte plant cover increased during the beginning of the second growing season. DO was lowest in the cogongrass eradication cells C-1 and C-2, which may be attributed to the decay of dead and dying cogongrass in these cells.

A further drop in percent saturation of DO would be likely if the plant establishment study were extended into a second year due to expected increases in the emergent plant cover and shading of the algal populations. Likewise, DO in the full-scale treatment wetland will likely exhibit similar patterns of a high initial diurnal DO and low nighttime DO when the large-scale treatment cells are full of algae and sparsely vegetated with emergent plants, followed by a decline in diurnal DO as the cells become more densely vegetated with emergent plants. A drop in DO below the Class III Water Quality Standard of 5.0 mg/L could occur as the full-scale treatment wetland matures.

The pH in Lake Hancock water pumped into the plant establishment cells averaged about 9.2 standard units (s.u.) and monthly values ranged between 8.1 and 10.1, presumably due to high productivity of planktonic algae (**Exhibit 3-15**). The pH in all of the plant establishment cells was consistently lower than the lake water, averaging between 7.6 and 8.6. Cell W-4 had the highest average pH presumably due to lower plant cover in this unplanted, excavated cell. These data support the general observation that pH is usually circum-neutral in constructed wetlands dominated by emergent wetland vegetation (Kadlec and Knight 1996).

Total suspended solids (TSS) were consistently elevated in the Lake Hancock source water with a period-of-record average concentration of 122 mg/L and a range between 25 and 182 mg/L (**Exhibit 3-15**). Substantial reductions in TSS occurred in all study cells compared to the source water. Average reduction of TSS over the 12-month study period ranged from 74 percent in cell C-2, to 90 percent reduction in W-3 (**Exhibit 3-16**).

Specific conductance in Lake Hancock ranged from 266 to 376 umhos/cm over the 12-month study period (**Exhibit 3-17**). With the exception of the cogongrass cells, specific conductance in the study cells was generally somewhat lower than specific conductance in Lake Hancock. This finding is presumably due to a dilution effect by rainfall in these cells. Specific conductance in the two cogongrass cells was slightly higher than the source water, presumably due to high evaporation rates.

3.4.2 Nitrogen

Nitrogen, in its multiple forms, was analyzed to assess the dominant nitrogen compounds in the lake water that might be affecting plant germination and growth, and to a lesser extent to document the chemical transformations that are occurring once the lake water is pumped and retained in the study cells. Analytical results of total nitrogen (TN), total Kjeldahl nitrogen (TKN), dissolved TKN (TKN-D), ammonia nitrogen (NH₄-N), and nitrate + nitrite nitrogen (NO_x-N) are presented as **Exhibits 3-18, 3-19, and 3-20**. Tabulated water quality data summaries are provided in **Appendix D**. Laboratory reports are included in **Appendix E**.

TN was consistently and substantially higher in Lake Hancock than in the wetland study cells through the entire 12-month study period (**Exhibit 3-18**). During the 12-month period of this study the average TN in the lake water pumped into the plant establishment cells was 15.2 mg/L. This average value was considerably higher than the average reported for the lake by ERD (1999) of 5.5 mg/L and used in water quality performance estimates for the preliminary site design (Parsons 2006). Average TN concentrations measured in the four wetland study cells were also much lower than in the inlet water, ranging from 2.6 to 4.9 mg/L.

The average TN in the two cogongrass cells was intermediate between the wetland cells and Lake Hancock, and was 8.0 mg/L in C-2 and 9.5 mg/L in C-1. In general, Cells W-1, W-2, W-3 and W-4 reduced TN concentrations by an average of 68 to 83 percent, while the flooded cogongrass cell C-2 reduced TN concentrations by an average of 47 over the one-year study period of the Plant Establishment Study (**Exhibit 3-16**). While some of this observed decline in TN concentrations may be due to dilution by rainfall to the cells, it is presumed that the majority of the TN concentration reduction was due to plant uptake and denitrification. These data provide a preliminary indication of a notable improvement in water quality by reduction of TN load in emergent wetland cells.

TKN, which is comprised of organic nitrogen (ON) and NH₄-N, was consistently and substantially higher in Lake Hancock than in the wetland cells throughout the 12-month study period of the Plant Establishment Study (**Exhibit 3-19**). Average TKN was almost equivalent to average TN in Lake Hancock and in the five study cells (**Exhibit 3-16**). A high TKN and low NH₄-N suggests that the TN is comprised primarily of ON. TKN is comprised of both particulate and dissolved ON, while TKN-D represents the dissolved fraction of ON. This differentiation is important in treatment wetlands because of the different processes involved in removal of the particulate and dissolved fractions. In Lake Hancock, average TKN (15.1 mg/L) exceeded average TKN-D (5.20 mg/L) suggesting that the ON in the lake is comprised primarily of particulate organic nitrogen rather than dissolved organic nitrogen and reflecting the large biomass of particulate algae in the lake water column. Cells W-1, W-2, W-3 and W-4 reduced TKN concentrations by an average of 68 to 83 percent, while the flooded cogongrass cell C-2 reduced TKN concentrations by an average of 47 percent over the course of the Plant Establishment Study (**Exhibit 3-16**).

Concentrations of TKN-D measured in Lake Hancock exceeded the concentrations of TKN-D in the treatment cells for the first half of the Plant Establishment Study, but then remained at an intermediate concentration when TKN-D in C-1, C-2 and W-2 increased during the second half of the study (**Exhibit 3-19**). With few exceptions, these data suggest that like the

particulate ON, the dissolved fraction of ON is also being effectively reduced in the study cells. The four wetland cells reduced a substantial amount of TKN-D (37 to 60 percent reductions from concentrations in the source water); although the reduction of TKN-D in the flooded cogongrass cell C-2 was much lower (2 percent), presumably due to decaying cogongrass biomass.

The inorganic nitrogen fractions, NH₄-N and NO_x-N, were assessed in Lake Hancock and in the treatment cells and are depicted on **Exhibit 3-20**. The observed concentration of NH₄-N was frequently higher in C-1 and C-2 during the latter half of this study when the cogongrass was dying and the cells were likely releasing stored nitrogen from the decaying plant biomass. The monthly concentrations of NH₄-N were typically lowest in the four wetland cells.

The period-of-record average NO_x -N concentration was highest in the Lake Hancock source water (0.055 mg/L) and lowest in the four wetland cells, ranging from 0.012 to 0.02 mg/L (**Exhibit 3-20**). Overall, the wetland cells reduced a substantial amount of both NH₄-N and NO_x-N (average 59 to 83 percent reductions from Lake Hancock) during the 12-month study period (**Exhibit 16**).

During the 12-month duration of the plant establishment study, the cogongrass cells were managed for plant eradication, whereas the wetland cells were managed for plant recruitment and plant growth. Consequently, the cogongrass cells assimilated less nitrogen due to the die-off and decay of the cogongrass biomass. In contrast to the cogongrass cells, the wetland cells assimilated a higher nitrogen mass during this study (both organic and inorganic), presumably through a combination of physical settling, plant assimilation, and denitrification.

3.4.3 Phosphorus

Phosphorus (P) was measured in the Lake Hancock source water and in the treatment cells as both ortho-phosphorus (ortho-P) and total phosphorus (TP). Results of the P measurements are presented in **Exhibit 3-21**. Average TP in the Lake Hancock source water was 0.56 mg/L compared to the value of 0.60 reported by ERD (1999). The average ortho-P concentration measured in the Lake Hancock source water during the plant establishment study period was 0.01 mg/L.

Average concentrations of ortho-P were highest in cells W-3 and W-4, the two excavated wetland cells, and lowest in Lake Hancock (**Exhibit 3-21**). Ortho-P was particularly elevated at the initial startup months (June, July, and August), presumably due to an initial release of soluble soil P loads, and then declined somewhat after the initial startup. However, ortho-P in the wetland cells remained higher than in the Lake Hancock source water through the entire study period. The high ortho-P concentrations likely reflect the residual P remaining in the overburden soils after mining and reclamation were completed, in addition to the breakdown of algal biomass in the water column.

Like ortho-P, TP was highest during the initial startup but then stabilized to a lower concentration similar to background lake concentrations (**Exhibit 3-21**). The noticeable decline in TP in the wetland cells suggest that the initial release of P from the soils subsided over time and plant assimilation of P increased as the wetland cells became more heavily vegetated.

P concentrations in Lake Hancock reflect background P concentrations that were introduced to the treatment cells during the weekly pumping events, whereas, P concentrations in the treatment cells reflected a combination of P introduced from lake water, P released from the soils, P released from algal decay, P assimilation by plants, and dilution of P from rainwater. These data provide a useful indication of the possible magnitude of an expected startup release of P from the soils in the full-scale wetland footprint and an indication of how long it might require for the growing plant community to fully assimilate this P load.

3.4.4 Additional Water Quality Parameters

Additional water quality sampling was requested by SWFWMD to better characterize the P concentrations in the soils and to better predict P levels in the full-scale wetland. Additional water quality sampling was implemented in December 2007, January 2008, and February 2008 to quantify concentrations of sulfate (SO₄-S), calcium (Ca), aluminum (Al), and iron (Fe) in the water column. Results of this additional sampling effort were presented in the 3rd Quarter Monitoring Report (WSI 2008b) and are also presented in this report as **Exhibit 3-22**.

The Lake Hancock source water had an average sulfate concentration of 14.7 mg/L which is in the normal range for Florida lakes. The concentration of sulfate was consistently reduced in all treatment cells compared to the Lake Hancock source water (**Exhibit 3-22**). Average sulfate concentrations were below 7.7 mg/L in the six treatment cells and generally lowest in the planted cells. Sulfate concentrations in all six plant establishment cells peaked in January 2008 and were lower in all other months.

The concentration of Ca was highest in the two cogongrass cells (C-1 and C-2), intermediate in the Lake Hancock source water, and lowest in the four wetland treatment cells (**Exhibit 3-22**). Average Ca concentration was about 40 mg/L in C-1 and C-2, 37.5 mg/L in Lake Hancock, and below 33 mg/L in the four wetland cells. The elevated Ca in the two cogongrass cells could represent a release of Ca from plant biomass as the treated cogongrass died and decomposed, whereas, the lower Ca concentrations in the wetland cells could represent co-precipitation with available P, assimilation of Ca into plant biomass, and/or dilution of Ca due to rainfall.

Unlike SO₄-S and Ca, Al concentrations were generally higher in the wetland treatment cells and lower in Lake Hancock and the two cogongrass cells (**Exhibit 3-22**). Also unlike SO₄-S and Ca, the concentration of Al exhibited a notable decline in January 2008. Al was highest in W-4, the excavated and unplanted cell, during all three sampling events. Elevated Al concentrations in the plant establishment cells are most likely due to releases of this common element from overburden soils.

Concentrations of Fe were highest in the two cogongrass cells (C-1 and C-2) and in W-1, the scraped and planted wetland cell (**Exhibit 3-22**). Cell C-1 exhibited an unusually high concentration of Fe in February, which was two months after the cell began receiving supplemental hydration. All other cells had been continually hydrated with lake water for six months before the water samples were collected and analyzed for the additional water quality parameters. As noted above for Al, the elevated Fe concentrations in the water columns of the plant establishment cells are most likely due to releases of this common element from site soils.

3.5 Soil Sampling

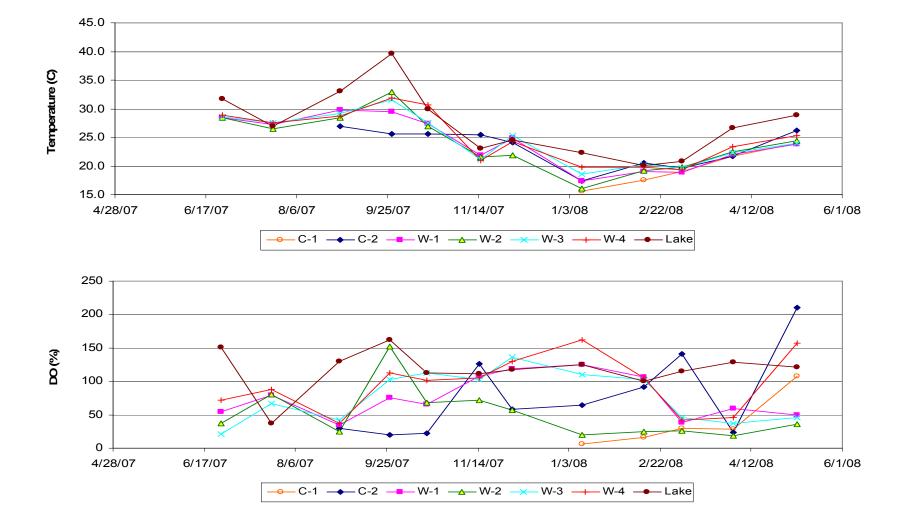
Two soil sampling events were added to the field sampling regime mid-way through this study in order to chemically characterize the existing site soils and to better predict P levels that might be observed during start-up and initial flooding of the full-scale wetland. Laboratory reports are included in **Appendix E**.

TIP in the soil of the Plant Establishment cells was highly variable, ranging from 3,410 to 65,000 mg/kg. TIP concentrations in soil samples were generally higher in January 2008 (average 30,500 mg/kg) compared to April 2008 (**Exhibit 23**). The average TIP concentration in the wetland cells in April 2008 was about 20,500 mg/kg and ranged from 16,300 to 22,600 mg/kg in the four wetland cells.

Similar to soil TIP, TP in the soil was highly variable between sampling sites, ranging from 21,600 to 66,700 mg/kg (**Exhibit 23**). Soil TP concentrations in the wetland cells were higher in January 2008 (average 60, 900 mg/kg), and lower in April 2008 (average 28,100 mg/kg).

Since there were no pre-flooding soil samples collected in the wetland cells there is no accurate baseline to compare subsequent soil samples. High observed variability in the soil P concentrations makes comparisons to control sites questionable. Soil P concentrations were measured in two unflooded sites, cell C-1 in October 2007 and from an adjacent cogongrass-covered area in April 2008. Neither of these unflooded areas had been scraped or excavated and soil samples were collected just below the cogongrass root zone. The only TIP sample collected outside the area of lake water addition and that could be considered a control for pre-project conditions returned a value of 17,000 mg/kg collected in April 2008. This value is lower than the TIP concentrations measured in almost all of the wetland cells after flooding and is not considered to be a reliable control for comparison to pre-flooded conditions. TP concentrations at these unflooded sites were 52,200 mg/kg in October 2007 and 21,900 mg/kg in April 2008, further illustrating the variable nature of TP in these mined soils.

Based on this review of soil P data from the Plant Establishment test cells, it appears that a significant mass of P was released upon initial flooding of these soils. This P was observed as elevated water column P concentrations as summarized above in Section 3.4. The actual quantity of P that was initially in these soils and that was released upon flooding could not be determined accurately due to extreme heterogeneity in soil P concentrations at this site. It is presumed that the range in P concentrations in site soils across the entire full-scale wetland project site is even greater than was observed at this particular site.



Water Quality Parameters – Temperature and DO at the Lake Hancock Plant Establishment Study from June 2007 through May 2008

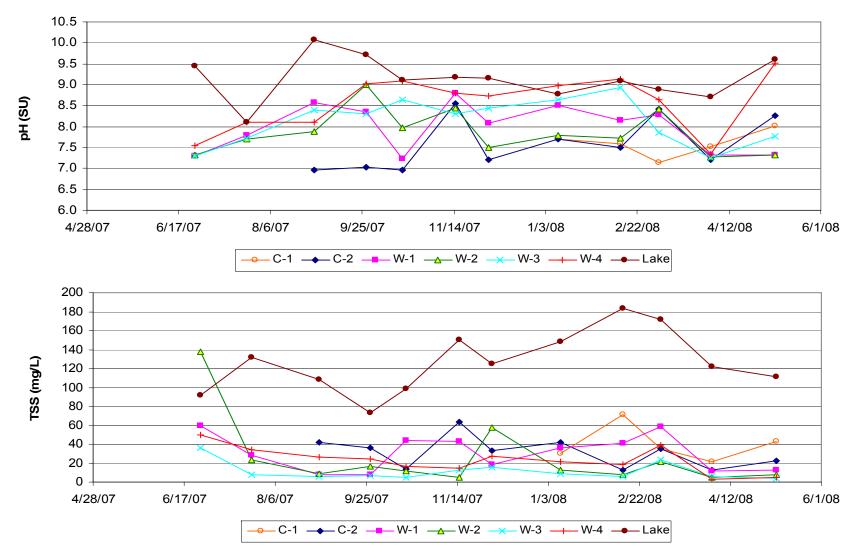


EXHIBIT 3-15

Water Quality Parameters – pH and Total Suspended Solids at the Lake Hancock Plant Establishment Study from June 2007 through May 2008

| | | Average Concentration (mg/L) | | | | | | % Reduction from Lake Hancock | | | | | |
|------------|-----------|------------------------------|-------|-------|-------|-------|-------|-------------------------------|--------|--------|--------|--------|--|
| GROUP | PARAMETER | Lake H. | C-2 | W-1 | W-2 | W-3 | W-4 | C-2 | W-1 | W-2 | W-3 | W-4 | |
| SOLID | TSS | 122 | 31.4 | 28.7 | 25.6 | 11.6 | 23.6 | 74 | 76 | 79 | 90 | 81 | |
| NITROGEN | TN | 15.2 | 8.00 | 4.90 | 4.00 | 2.60 | 3.50 | 47 | 68 | 74 | 83 | 77 | |
| | TKN | 15.1 | 8.00 | 4.90 | 4.00 | 2.60 | 3.50 | 47 | 68 | 74 | 83 | 77 | |
| | TKN-D | 5.20 | 5.10 | 3.30 | 3.20 | 2.10 | 2.40 | 2 | 37 | 38 | 60 | 54 | |
| | NOx-N | 0.060 | 0.020 | 0.020 | 0.020 | 0.010 | 0.010 | 67 | 67 | 67 | 83 | 83 | |
| | NH4-N | 0.170 | 1.30 | 0.060 | 0.200 | 0.070 | 0.050 | -665 | 65 | -18 | 59 | 71 | |
| PHOSPHORUS | OrthoP | 0.010 | 0.030 | 0.290 | 0.240 | 0.450 | 0.320 | -200 | -2,800 | -2,300 | -4,400 | -3,100 | |
| | TP | 0.580 | 0.680 | 1.31 | 1.50 | 1.04 | 1.69 | -17 | -126 | -159 | -79 | -191 | |

Average Concentration of Water Quality Parameters and Average Percent Reduction of Water Quality Parameters at the Lake Hancock Plant Establishment Study from June 2007 through May 2008

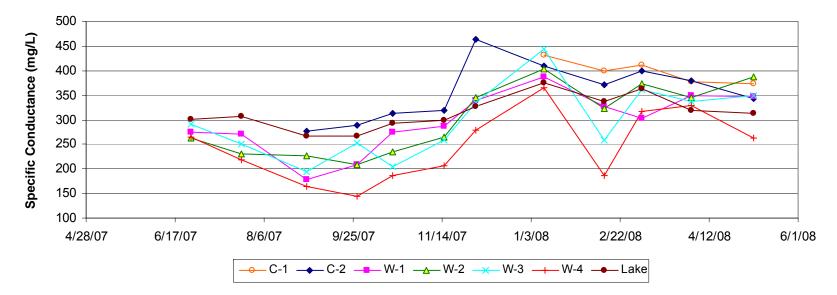
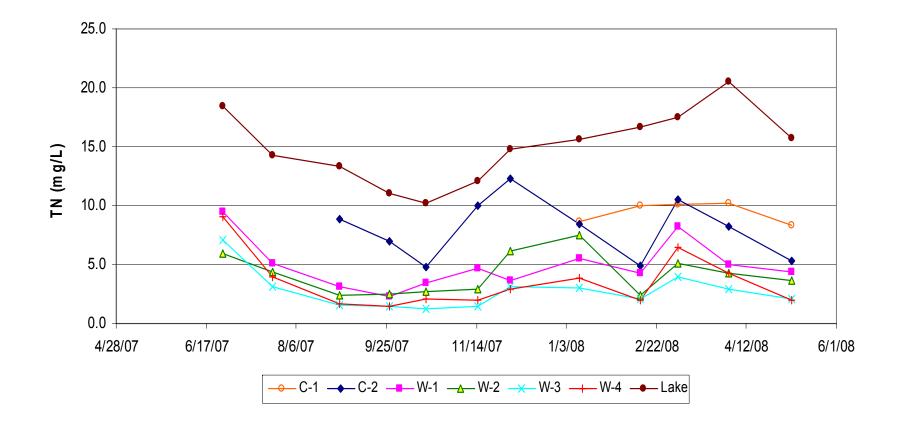


EXHIBIT 3-17

Water Quality Parameter --- Specific Conductance - at the Lake Hancock Plant Establishment Study from June 2007 through May 2008





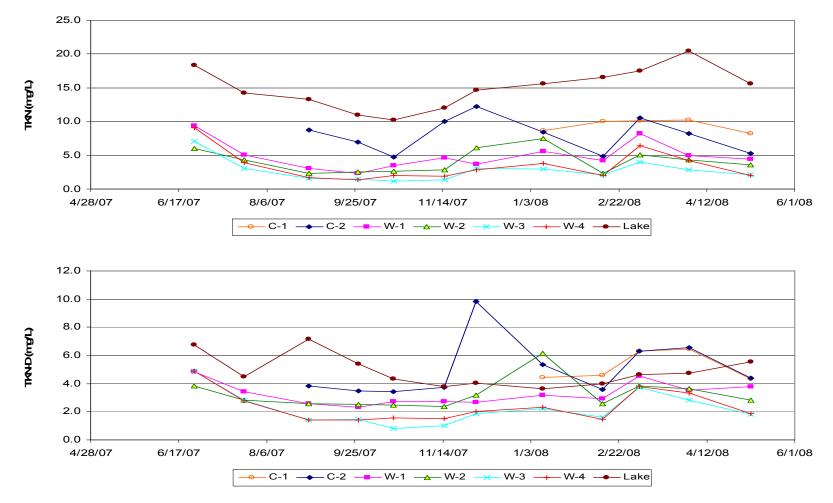
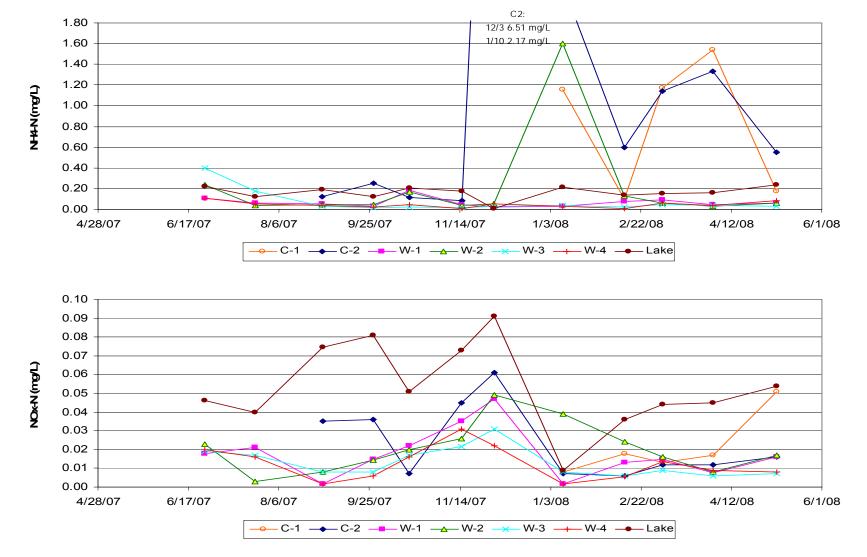


EXHIBIT 3-19

Water Quality Parameters – Total Kjeldahl Nitrogen and Dissolved Total Kjeldahl Nitrogen at the Lake Hancock Plant Establishment Study from June 2007 through May 2008



Water Quality Parameters – Ammonia Nitrogen and Nitrate + Nitrite Nitrogen at the Lake Hancock Plant Establishment Study from June 2007 through May 2008

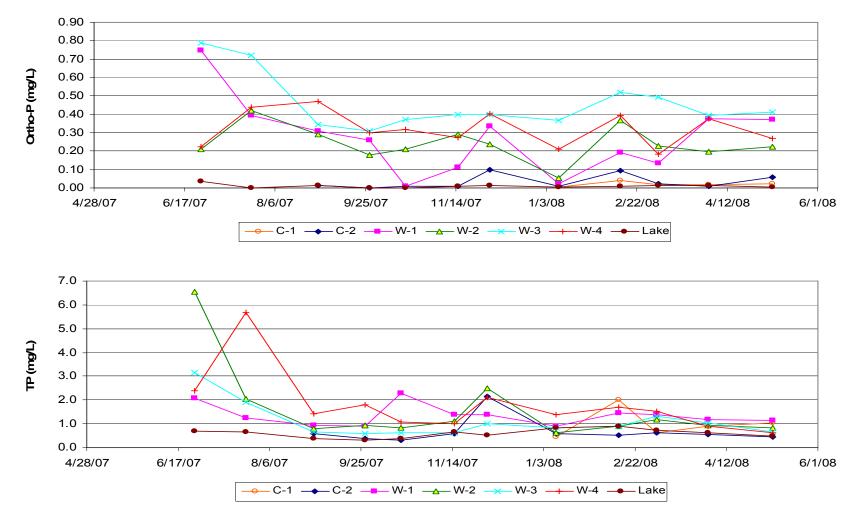
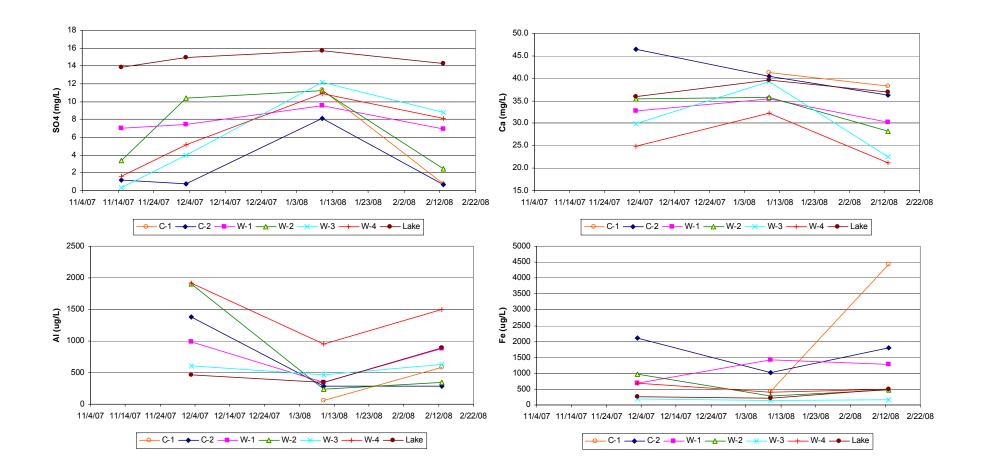


EXHIBIT 3-21

Water Quality Parameters - Ortho-Phosphorus and Total Phosphorus at the Lake Hancock Plant Establishment Study from June 2007 through May 2008



Water Quality Parameters – Sulfate, Calcium, Aluminum, and Iron at the Lake Hancock Plant Establishment Study from June 2007 through May 2008

Soil Sampling Parameters – Sulfate, Aluminum, Calcium, Iron, Bulk Density, and Dry Weight Solids - at the Lake Hancock Plant Establishment Study from October 2007, January 2008, and April 2008

| GROUP | PARAMETER | UNITS | | C-1 | | | C-2 | | | W-1 | | | W-2 | | | W-3 | | | W-4 | |
|-------------------|----------------|-------------------|---------|-----------|--------|--------|----------|--------|---------|-----------|--------|---------|-----------|--------|--------|-----------|--------|---------|----------|--------|
| | | | Oct-07 | Jan-08 | Apr-08 | Oct-07 | Jan-08 | Apr-08 | Oct-07 | Jan-08 | Apr-08 | Oct-07 | Jan-08 | Apr-08 | Oct-07 | Jan-08 | Apr-08 | Oct-07 | Jan-08 | Apr-08 |
| GENERAL INORGANIC | SO4 | mg/L | 30 U | 1,660 | | 137 U | 1,190 | - | 199 | 610 | | 1,260 U | 119 | | 372 U | 43 I | | 1,020 | 324 | |
| METAL | AI-T | mg/kg | 59,200 | 73,700 | | 98,900 | 68,800 | | 58,600 | 71,500 | | 69,300 | 78,600 | | 76,100 | 77,600 | | 69,400 | 54,500 | |
| | Ca-T | mg/kg | 109,000 | 110,000 V | | 92,800 | 98,000 V | | 108,000 | 121,000 V | | 128,000 | 122,000 V | | 86,100 | 104,000 V | | 131,000 | 95,600 V | |
| | Fe-T | mg/kg | 22,400 | 34,400 V | | 24,500 | 23,800 V | | 29,300 | 31,500 V | | 30,100 | 36,800 V | | 28,600 | 26,900 V | | 22,200 | 26,100 V | |
| PHYSICAL | Bulk Density | g/cm ³ | 0.75 I | 0.74 | | 0.81 I | 0.63 | - | 0.69 I | 0.70 | | 0.68 I | 0.76 | | 0.621 | 0.66 | | 0.70 | 0.56 | |
| SOLID | Solids, Dry Wt | % | 63.2 | 39.6 | 51.7 | 55.1 | 45.8 | 42.6 | 55 | 46.2 | 54.2 | 46.7 | 44.7 | 48.3 | 47.6 | 46.0 | 31.0 | 53.3 | 41.9 | 54.4 |
| PHOSPHORUS | TIP | mg/kg | | 57,500 | 20,900 | | 31,800 | 25,400 | | 21,900 | 22,600 | | 65,000 | 21,300 | | 38,500 | 16,300 | | 3,410 | 21,700 |
| | TP | mg/kg | 52,200 | 54,700 | 21,600 | 64,600 | 57,900 | 31,700 | 46,300 | 65,600 | 26,900 | 60,200 | 66,700 | 25,700 | 61,200 | 63,000 | 34,100 | 53,100 | 48,400 | 25,700 |

U = result below detection limit

I = result between detection limit and practical quantitation limit

V = analyte present in blank and samples

April-08 Sample ~100 yrds East of W-3

| PHOSPHORUS | TIP | mg/kg | 17,000 |
|------------|----------------|-------|--------|
| | TP | mg/kg | 21,900 |
| SOLID | Solids, Dry Wt | % | 58.3 |

Soil sampling results from both sampling events for SO4, Al, Ca, and Fe are presented in **Exhibit 3-23**. Concentrations of SO4 in the soil in January 2008 ranged between 119 mg/L in W-2 to 1,660 mg/L in C-1, approximately the same range as observed in October 2007 samples (W-1 = 199 mg/L and W-4 = 1,020 mg/L). Concentrations of Al, Ca, and Fe measured in January 2008 were relatively consistent across cells and similar to the range of values observed during the October 2007 soil sampling event.

4.0 Recommendations

Treatment wetland success hinges on a high cover of self-sustaining emergent wetland vegetation (Kadlec and Knight 1996). Initial establishment of appropriate wetland plant species as well as long-term plant cover maintenance are critical to project success. While plant establishment techniques are well known from other treatment wetland projects, cost considerations for a specific project dictate finding the most economical blend of planting nursery grown plant materials and promoting natural recruitment of volunteer plants. The primary purpose of the Plant Establishment Study described in this report was to help develop site specific design and construction methods to optimize plant establishment under the constraints associated with the project site on reclaimed phosphatic waste clays.

Construction of the full-scale Lake Hancock treatment wetland will require considerable earthwork including various depths of excavation and fill to achieve the wetland cell design ground surface elevations. In areas with little depth of excavation or fill, the existing storage of plant seeds in the soils may accelerate volunteer plant establishment. A justified concern exists that more deeply excavated areas could expose a relatively sterile substrate that would be relatively devoid of a pre-existing seed bank. This concern was investigated by comparing plant establishment of both planted species and naturally recruited species in scraped and more deeply excavated cells to determine if either construction technique would result in more favorable plant recruitment and establishment. Results of this comparison suggest that planted wetland species survived similarly in both scraped and excavated scenarios. Relatively slight differences in the growth of planted species in the scraped and excavated cells were apparently due more to hydrologic variations rather than soil chemistry or textures.

Recommendation #1: This study demonstrated that planted emergent wetland species were successful in surviving and spreading in both scraped and excavated consolidated phosphatic clay soils within one year at a planting density of about 1 plant per 3 ft. Careful management of hydrologic conditions during the critical period of early plant establishment will be an important factor in achieving early successful operation of the large-scale treatment wetland. Results of this Study suggest that early colonization tended to occur at median water depths not exceeding 0.7 - 0.8 ft, and colonization of most species occurred at median water depths not exceeding 0.2 - 0.3 ft. Careful site grading is important to successfully maintain these favorable hydrologic conditions. In the absence of planting nursery grown seedlings, volunteer plant recruitment was approximately equal in the scraped and excavated cells within one year of initial colonization. Establishment of volunteer plants was apparently influenced more by hydroperiod than by any significant pre-existing seed bank in either shallow or deeply excavated soils. Cattails, a plant well suited for growth and survival in treatment wetlands throughout Florida and the preferred emergent wetland species in the south Florida Stormwater Treatment Areas, was dominating this volunteer plant community after one year and could be expected to ultimately dominate unplanted zones in the full-scale treatment wetland as long as a favorable range of hydrologic conditions are maintained.

Recommendation #2: This study demonstrated that volunteer plant establishment on scraped and excavated areas of consolidated phosphatic clays can be successful provided that a suitable hydroperiod is maintained following construction. Again, results of this Study suggest that early colonization tended to occur at median water depths not exceeding 0.7 - 0.8 ft, and colonization of most species occurred at median water depths not exceeding 0.2 - 0.3ft.

Establishment of wetland plants in the four study cells was accomplished through supplemental planting and natural recruitment. Seven species of wetland plants were installed in one scraped and one excavated cell. Five of the seven planted species (duck potato, spikerush, fireflag, pickerelweed, and arrowhead) quickly established after planting and began vigorously growing in the wetland cells. With the exception of duck potato, those species flowered, fruited, and expanded laterally through vegetative reproduction during the 12-month study period. Surprisingly, the other two planted species - bulrush and sawgrass - exhibited high initial mortality following planting and poor growth rates. By the end of the 12-month study, four planted species stood out as the most successful with respect to survival, growth, and overall plant vigor. Those four species – spikerush, pickerelweed, arrowhead, and fireflag exhibited over 80 percent cover within their planted zones at the end of the 12-month study period (except arrowhead, which had almost 70 percent cover).

Recommendation #3: Relatively rapid plant establishment in the large-scale treatment wetland will help to displace the incoming algal population and accelerate nutrient assimilation. Thus, supplemental planting of wetland species can help jump-start the large-scale treatment wetland and promote greater nutrient assimilation during the early start-up period. Based on results of the supplemental plantings, it is recommended that the four most successful plant species – spikerush, pickerelweed, arrowhead, and fireflag – be planted on a small-scale basis in the large-scale treatment wetland. Due to the high cost of direct planting (compared to no planting), plants should be installed in linear zones with large gaps separating each zone. A similar method is utilized in the south Florida STAs where the standard planted zone covers the entire cell width perpendicular to the direction of water flow. Plants in the Plant Establishment Study were installed at 3-ft spacing and quickly expanded to fill in the gaps between each initial plant. Thus, supplemental planting within a small portion of the large-scale wetland is

recommended to aid in more rapid plant establishment for enhanced nutrient assimilation.

Natural plant recruitment was most successful in the slightly raised areas and along the toe of the berm where water levels were shallower and with a shorter duration of inundation. Fully saturated soil conditions and a shallow water depth less than about 6 inches promoted the most successful recruitment of the desired wetland plant species, whereas, a deeper and more constantly inundated hydroperiod resulted in few recruited plants at the end of the 12-month study.

Recommendation #4: Optimal hydrologic conditions for growth of planted wetland species and colonization by desirable volunteer wetland plant species should be maintained for the first two years following the completion of site construction. In general, nursery-grown plants should be planted into saturated or shallowly-flooded soils (less than 0.5 ft water depth). Volunteer recruitment by wind-blown seeds for plant species such as cattails will also be optimized by soil saturation and minimal water depth. Highest recruitment and initial plant growth will occur during the first year if water depth does not exceed 0.7 to 0.8 ft in depth. Depending upon timing of the initial planting or end of site preparation, water levels in the wetland cells should be raised gradually as the desirable wetland plant species grow and multiply. Ideally, initial wetland plant establishment should begin in spring or early summer to minimize plant cover establishment time.

Some upland and facultative plant species germinated and began to colonize in the upper and drier reaches of the wetland cells during the Plant Establishment Study. This initial recruitment of upland species is not problematic as long as desirable wetland emergent species such as cattails, spikerush, pickerelweed, and duck potato also have a chance to germinate before the ground is fully covered by less desirable species. Most of the upland and facultative species can be excluded or maintained at low densities by gradually raising the water levels in the treatment wetland cells, favoring the obligate wetland plant species.

Recommendation #5: It is critical that water levels in the scraped and excavated treatment wetland cells be controlled as soon as final grading is complete to favor wetland plant species. This condition for successful plant establishment will require coordinated construction activities to provide sufficient water as soon as site work is complete in each cell.

Several alternative methods resulted in successful control of cogongrass. The most rapid and simple method of cogongrass control was with use of a single application of Arsenal herbicide. The disadvantage of this chemical control strategy is that this herbicide leaves a residual in the soil that is also toxic to many other plant species. Thus, the use of Arsenal as a site preparation method for a vegetated treatment wetland is not advised. Effective cogongrass control was also accomplished by flooding alone as long as water could be held over about one foot in depth for up to nine months. Two- and three-step effective cogongrass control methods included mow + flood, Gly Star Plus herbicide + flood, and mow + Gly Star Plus herbicide + flood. Flooding in late fall produced more immediate cogongrass mortality than flooding in the summer, perhaps because the cogongrass had been subjected to previous control methods and was at a reduced state of vigor in late fall.

Recommendation #6: Extensive stands of cogongrass may be present in the large-scale wetland in areas where neither excavation nor fill is needed, or if a sufficient amount of time elapses between earthwork and flooding. Flooding should be initiated as soon as possible following the completion of earth-work in the treatment cells to prevent cogongrass from establishing in the newly graded areas. The most cost-effective, multiple control approach for controlling cogongrass re-establishment will likely be excavation and/or mowing and disking during the non-growing season followed by flooding.

Any control method that produces large-scale mortality of cogongrass will likely result in a large nutrient load to the treatment wetland when the extensive grass biomass dies and decays. Consequently, areas with treated cogongrass will assimilate less nitrogen as the cogongrass becomes stressed and then release nitrogen and other nutrients when the cogongrass dies.

Recommendation #7: Once the large-scale treatment wetland is flooded or herbicided for cogongrass eradication, a subsequent release of nitrogen and biodegradable organic matter can be expected as the cogongrass biomass decays. Therefore, water from the treatment wetland should be retained in the cells (or circulated back to the lake) until the treatment wetland ecosystem becomes a net assimilator of nutrients.

Dissolved oxygen (DO) in the plant establishment cells was influenced by algal productivity, oxygen demand from dying algae and other vegetation, and seasonal patterns in temperature and sunlight. Daytime DO concentrations in Lake Hancock almost continuously exceeded 100 percent as a result of the abundant planktonic algae in the lake, which super-saturated the water with oxygen during daylight hours. In contrast it is considered likely that nighttime DO concentrations in Lake Hancock are low due to algal respiration, reaching their lowest concentrations just before dawn. DO was also elevated in the Plant Establishment Study cells before emergent vegetative cover was able to shade out the incoming phytoplanktonic algae in the lake source water. When high plant cover levels were established the DO concentration remained lower in most of the cells. Likewise, DO concentrations in the full-scale treatment wetland will likely be elevated initially and then decline as emergent vegetation colonizes the cells and replaces the algal population. A drop in DO below the Class III Water Quality Standard of 5.0 mg/L could occur as the full-scale treatment wetland matures.

Recommendation #8: A *post-aeration system should be considered during the design of the full-scale project.*

The highly euthrophic water in Lake Hancock contains a very high TN concentration (average TN for the 12-month study was 15.2 mg/L). The high TN concentration is comprised primarily of particulate ON and reflects the large biomass of particulate algae in the lake water column. The treatment study cells were effective in assimilating the ON, in spite of receiving the highly euthrophic lake water on a generally 5 – 7 day pump cycle. The

wetland cells assimilated a significant mass of nitrogen (both organic and inorganic), presumably through a combination of physical settling, plant assimilation, and denitrification. Overall, the four wetland treatment study cells removed from 68 – 83 percent of the TN from Lake Hancock source water. The treatment cells were also effective in removing TSS (average removal was 76 to 90 percent). These ancillary results from the Plant Establishment Study provide a preliminary validation of the ability of emergent wetlands to assimilate nitrogen in Lake Hancock source water.

Recommendation #9: The full-scale treatment wetland will likely be effective at removing TN and TSS from the lake water and providing a valuable water quality improvement function in proportion to the cover of emergent wetland vegetation. This expected removal efficiency will be increased if plant establishment can be accelerated by supplemental planting with wetland plants and managing the wetland hydroperiod to promote rapid recruitment of wetland plants. The removal efficiency of TN and TSS may be compromised, at least initially, if expansive areas of cogongrass are killed and the biomass is allowed to decompose in the wetland. An initial period of water retention within the full-scale wetland should be anticipated in design and in development of the startup operations plan.

In contrast, the wetland treatment cells initially had phosphorus concentrations higher than the Lake Hancock source water. Water and soil monitoring suggested that this elevated phosphorus resulted from release of labile phosphorus from the exposed soils. Ortho-P concentrations appeared correlated to the degree of excavation depth and were highest in the water in the two excavated cells, intermediate in the two scraped cells, and lowest in the cogongrass cells where no excavation occurred. In comparison to Lake Hancock, ortho-P remained elevated in the treatment cells through the 12-month duration of the study, whereas TP declined considerably after the first three months of operation. These results lead to the preliminary conclusion that the increasing plant biomass will be able to provide a net assimilation of TP within one to two years post construction. Similar soil phosphorus releases and assimilation in the growing plant biomass have been seen and incorporated into design of the STAs in south Florida.

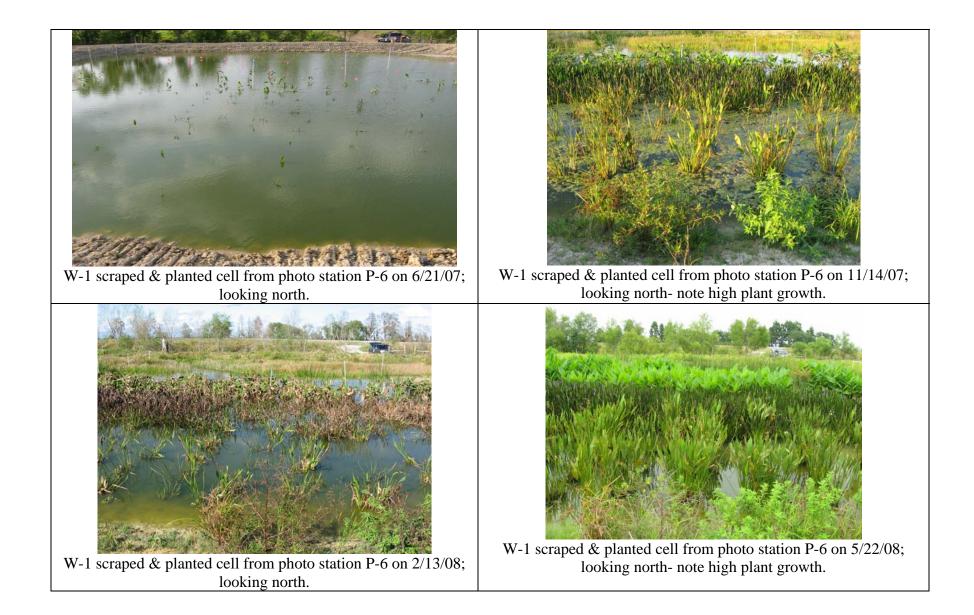
Recommendation #10: The newly exposed phosphatic clay soils in the fullscale treatment wetland will likely provide a source of phosphorus following initial flooding. This phosphorus will be available at a time of maximum need for the wetland plant community and will help to fuel rapid plant colonization and increase in plant biomass. Other wetlands constructed on soils with high phosphorus concentrations have ultimately been able to assimilate this nutrient and achieve net removal rates (e.g., Lakeland and STA 1-W Cell 5). However, potential phosphorus releases during the first year of start-up should be further considered in the Operations Plan for the full-scale wetland system.

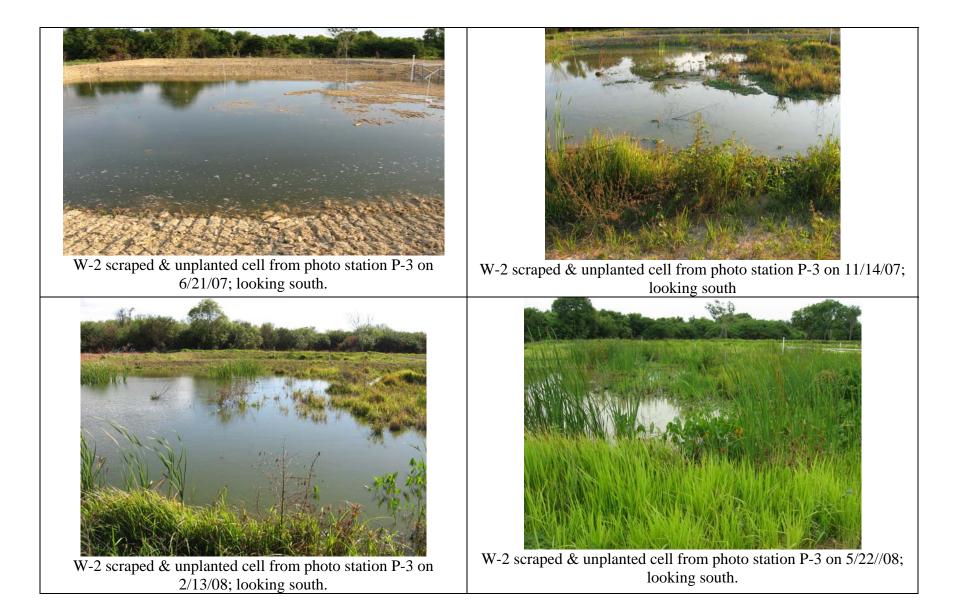
5.0 References

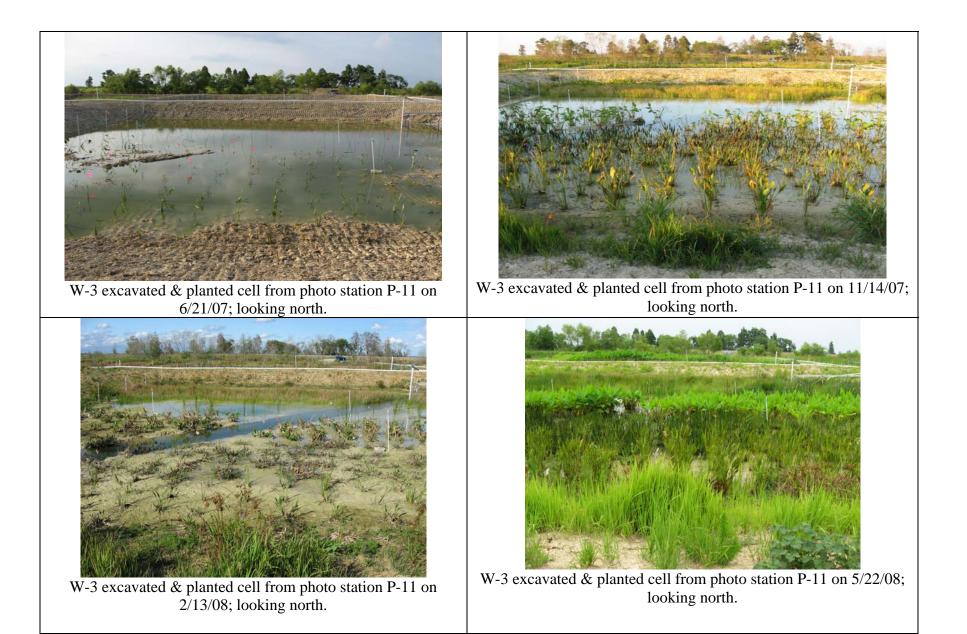
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- Wetland Solutions, Inc. 2007. Lake Hancock Plant Establishment Study; First Quarter Report. Submitted to Parsons and the Southwest Florida Water Management District.
- Wetland Solutions, Inc. 2008a. Lake Hancock Plant Establishment Study; Second Quarter Report. Submitted to Parsons and the Southwest Florida Water Management District.
- Wetland Solutions, Inc. 2008b. Lake Hancock Plant Establishment Study; Third Quarter Report. Submitted to Parsons and the Southwest Florida Water Management District.

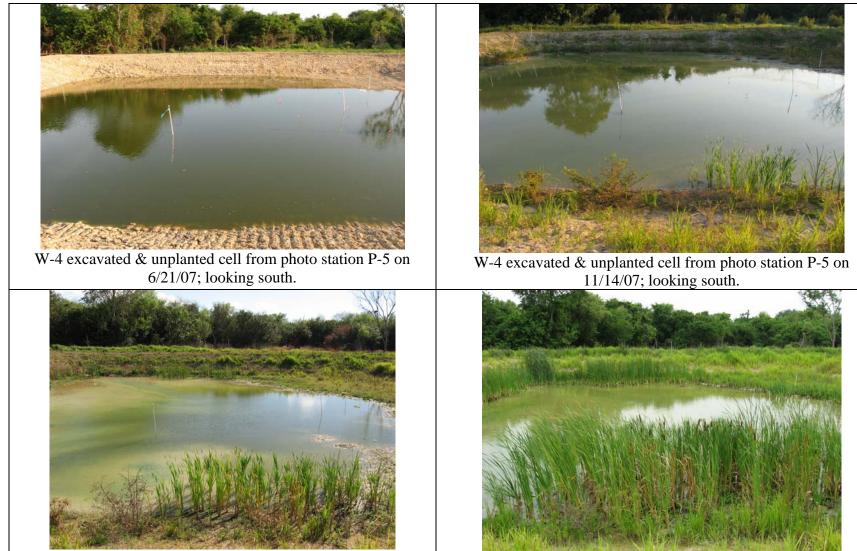


WETLAND SOLUTIONS, INC.



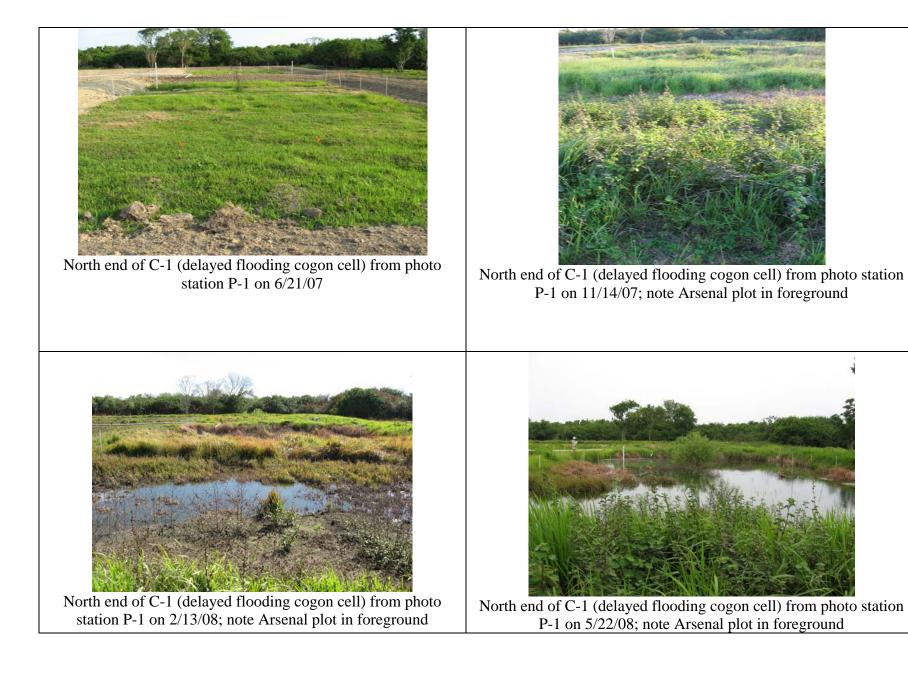






W-4 excavated & unplanted cell from photo station P-5 on 2/13/08; looking south.

W-4 excavated & unplanted cell from photo station P-5 on 5/22/08; looking south.





South end of C-1 (delayed flooding cogon cell) from photo station P-8 on 6/21/07



South end of C-1 (delayed flooding cogon cell) from photo station P-8 on 11/14/07; note Gly-Pro plot in foreground



South end of C-1 (delayed flooding cogon cell) from photo station P-8 on 2/13/08; note Gly-Pro plot in foreground



South end of C-1 (delayed flooding cogon cell) from photo station P-8 on 5/22/08; note Gly-Pro plot in foreground



North end of C-2 (immediate flooding cogon cell) from photo station P-9 on 6/21/07



North end of C-2 (immediate flooding cogon cell) from photo station P-9 on 2/13/08; flood only in the foreground



North end of C-2 (immediate flooding cogon cell) from photo station P-9 on 11/14/07; flood only in the foreground



North end of C-2 (immediate flooding cogon cell) from photo station P-9 on 5/22/08; flood only in the foreground



South end of C-2 (immediate flooding cogon cell) from photo station P-10 on 6/21/07; mow + flood in the foreground



South end of C-2 (immediate flooding cogon cell) from photo station P-10 on 2/13/08; mow + flood in the foreground



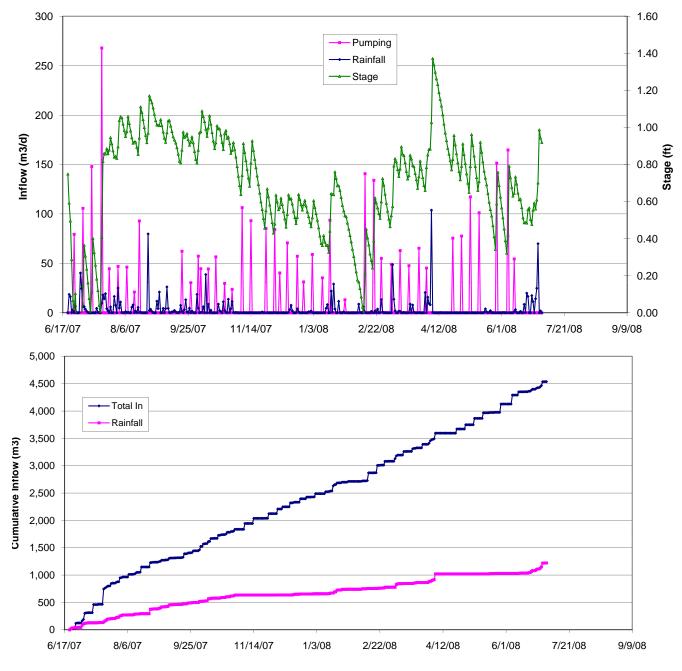
South end of C-2 (immediate flooding cogon cell) from photo station P-10 on 11/14/07; mow + flood in the foreground



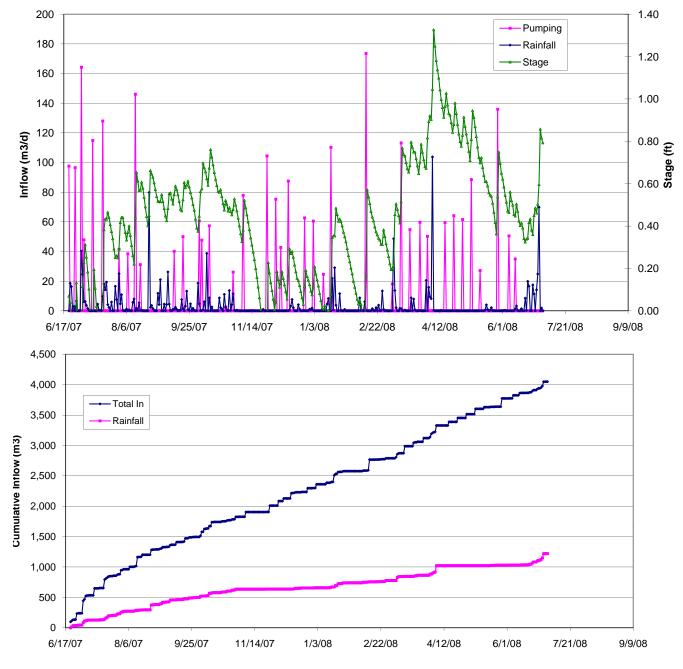
South end of C-2 (immediate flooding cogon cell) from photo station P-10 on 5/22/08; mow + flood in the foreground

Appendix B

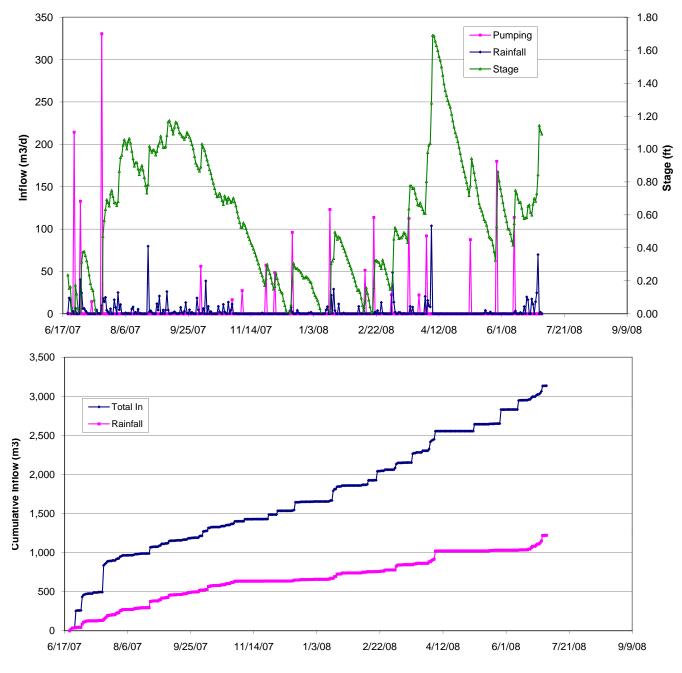
Inflow Water Budget (Rainfall and Lake Water Pumping) and Period-of-Record Stage-Frequency Curves for Wetland Cells W-1, W-2, W-3, and W-4



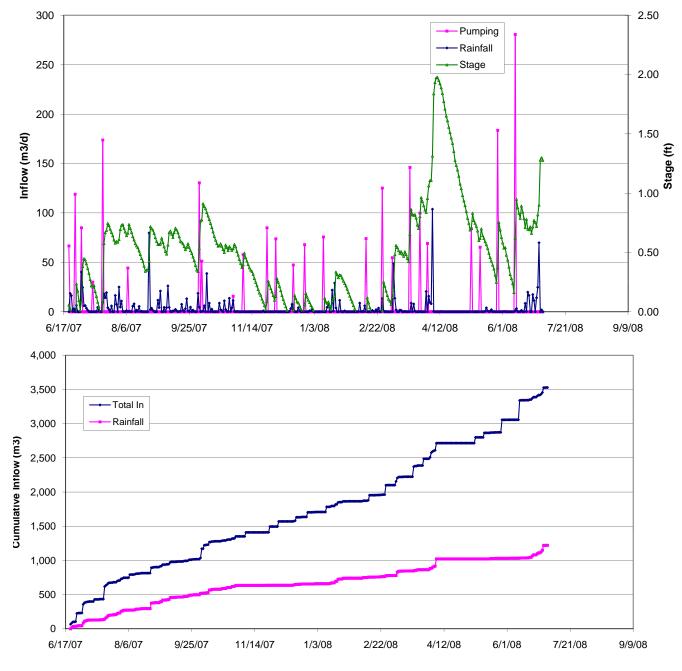
LAKE HANCOCK VEGETATION STUDY - W1 INPUTS



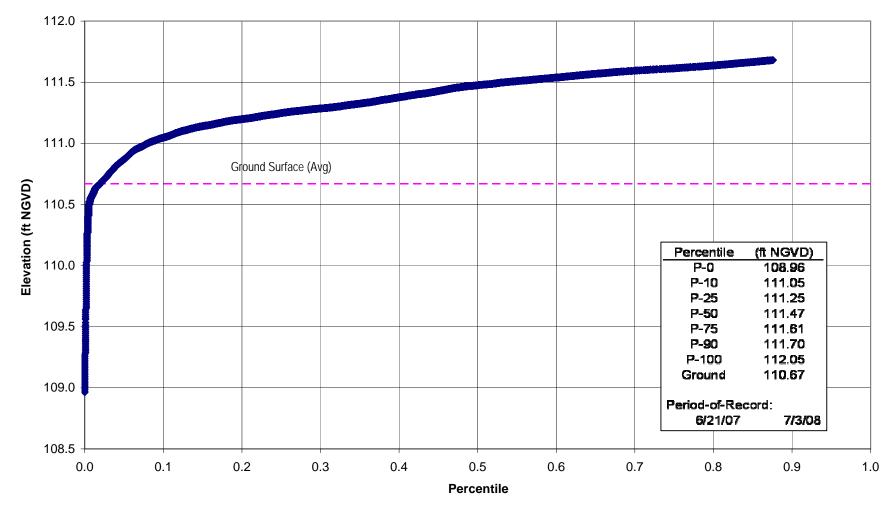
LAKE HANCOCK VEGETATION STUDY - W2 INPUTS



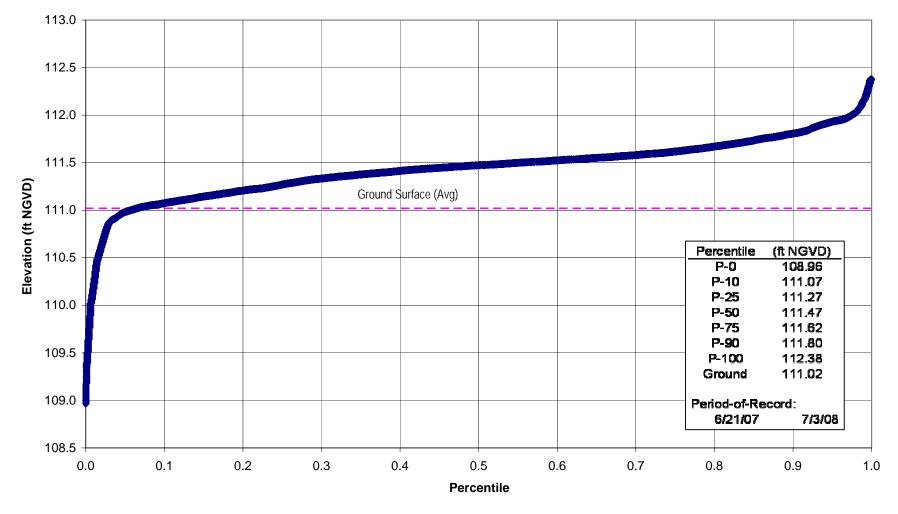
LAKE HANCOCK VEGETATION STUDY - W3 INPUTS



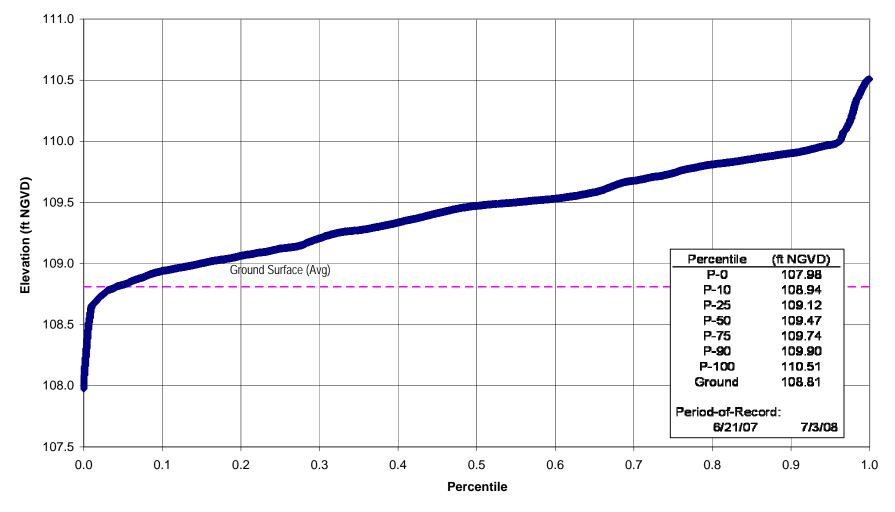
LAKE HANCOCK VEGETATION STUDY - W4 INPUTS



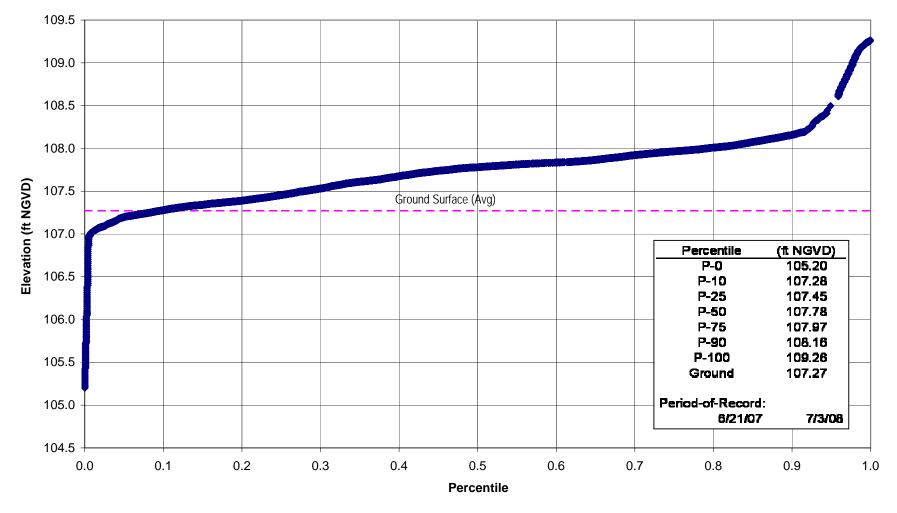
APPENDIX B LAKE HANCOCK VEGETATION ESTABLISHMENT STUDY - CELL W-1 STAGE FREQUENCY CURVE



APPENDIX B LAKE HANCOCK VEGETATION ESTABLISHMENT STUDY - CELL W-2 STAGE FREQUENCY CURVE



APPENDIX B LAKE HANCOCK VEGETATION ESTABLISHMENT STUDY - CELL W-3 STAGE FREQUENCY CURVE



APPENDIX B LAKE HANCOCK VEGETATION ESTABLISHMENT STUDY - CELL W-4 STAGE FREQUENCY CURVE

B-8

Appendix C

Estimated Cover for Volunteer (Natural Recruitment) Plants and Water Regime Effects on Plant Recruitment

APPENDIX C TOTAL COVER OF RECRUITED SPECIES IN THE WETLAND CELLS

| Average | | DATE | | | | | | | | | | | | |
|---------|--------------------------|-----------|-----------|----------|-----------|-----------|--------|------------|------------|-----------|-----------|-----------|-----------|-----------|
| CELL | SPECIES | 6/21/2007 | 7/17/2007 | 8/3/2007 | 8/13/2007 | 9/13/2007 | | 11/14/2007 | 12/13/2007 | 1/16/2008 | 2/13/2008 | 3/12/2008 | 4/16/2008 | 5/22/2008 |
| C1 | Aeschynomene indica | | | | | | 0.02% | | | | | | | |
| | Amaranthus australis | | | | | | | | | | | | | 0.07% |
| | Ampelopsis arboreum | 0.05% | 0.02% | | 0.02% | | | | 0.05% | | 0.02% | 0.05% | 0.02% | |
| | Boehmeria cylindrica | | | | | | | | | | | | 0.09% | |
| | Commelina diffusa | | | | | | | 0.02% | 0.02% | 0.29% | 0.29% | 0.33% | 0.33% | |
| | Diospyros virginiana | 0.02% | | | | | | | | | | | | |
| | Eupatorium sp. | | | | | | | | | | | 0.05% | 0.05% | |
| | Imperata cylindrica | 64.76% | 58.10% | | 39.00% | 37.67% | 32.55% | 29.81% | 22.05% | 19.59% | 17.59% | 16.33% | 1.02% | 3.67% |
| | Indigophera hirsuta | 0.17% | 0.93% | | 0.67% | 6.95% | 6.50% | 9.17% | | 1.14% | | | | |
| | Legume unknown | | | | | | | | 0.02% | | | | | |
| | Ludwigia decurrens | | | | | | 0.02% | 0.02% | | 0.02% | | | | |
| | Ludwigia octovalvis | | | | | | | | 0.02% | | | | | 0.43% |
| | Ludwigia peruviana | | | | | | | | | | | | 0.02% | 0.14% |
| | Macroptilium lathyroides | 0.07% | 0.62% | | 0.17% | 0.17% | 0.48% | 0.62% | 0.02% | | 0.02% | | | 0.02% |
| | Merremia dissecta | | | | 0.07% | 0.50% | 3.69% | 7.88% | 4.81% | 0.29% | | | | |
| | Physalis angulata | | 0.02% | | 0.02% | | | | | | | | | |
| | Polygonum punctatum | | | | | | | | 0.02% | | | 0.02% | | |
| | Rumex sp. | | | | | | | | | | | | 0.22% | |
| | Sagittaria latifolia | | | | | | | | | | | | | 0.02% |
| | Salix caroliniana | 0.05% | 0.05% | | 0.05% | 0.57% | 0.09% | 0.05% | 0.05% | 0.05% | 0.29% | 0.31% | 0.29% | 0.09% |
| | Sesbania exulta | 0.07% | 0.57% | | 3.26% | 1.90% | 0.79% | 0.52% | | 0.43% | | | | |
| | Toxicodendron radicans | | 0.02% | | | | | | | | | | | |
| | Unk. Opposite Broadleaf | | | | | | | | | | | 0.09% | | |
| | Urena lobata | 0.31% | 0.19% | | 0.12% | 0.52% | 0.76% | 3.12% | 3.83% | 1.19% | 0.50% | 0.57% | | 0.02% |
| C2 | Aeschynomene indica | | | | | | 0.02% | | | | | | | |
| | Ampelopsis arboreum | 0.12% | 0.12% | | 0.02% | 0.07% | 0.05% | | | | | | | |
| | Bare Ground | | | | | | 8.10% | | | | | | | |
| | Cynodon dactylon | | | | | | | | | | | 0.29% | | |
| | Cyperus odoratus | | | | | | 0.10% | 0.09% | 0.02% | 0.57% | 0.14% | 0.10% | 0.07% | 0.07% |
| | Cyperus small fruit | | | | | | | | | 0.14% | | | 0.02% | |
| | Eclipta alba | | | | | | | | | | | 0.02% | | |
| | Eichornia crassipes | | | | | | | | | | | 0.02% | 0.17% | 0.71% |
| | Eupatorium sp. | | | | | | | | | | | 0.02% | | ••••• |
| | Fuirena sp. | | | | | | 0.05% | | | | | | | |
| | Imperata cylindrica | 27.86% | 27.38% | | 25.24% | 24.29% | 17.14% | 11.67% | 19.52% | 13.81% | 15.00% | 10.71% | 5.05% | 11.19% |
| | Indigophera hirsuta | 0.10% | 0.12% | | 0.02% | 0.19% | 0.05% | | | | | | | |
| | Ludwigia decurrens | 0.1070 | 011270 | | 0.0270 | 0.1070 | 0.0070 | 0.02% | | 0.02% | | | | |
| | Ludwigia octovalvis | | | | | | 0.02% | | | | | | 0.02% | 0.02% |
| | Ludwigia peruviana | | | | | | 0.02% | | | 0.14% | | 0.02% | 0.0270 | 0.0270 |
| | Macroptilium lathyroides | | 0.07% | | 0.07% | 0.24% | 0.05% | | | 0 | | 0.02% | | |
| | Merremia dissecta | 0.02% | 0.02% | | 0.0770 | 0.2-7/0 | 0.0070 | | | | | 0.02/0 | | |
| | Polygonum punctatum | 0.0270 | 0.0270 | | | | | | | | 0.02% | | | |
| | Rumex sp. | 1 | | | | | | | | | 0.02/0 | | 0.02% | |
| | Salix caroliniana | 0.02% | 0.02% | | 0.02% | 0.29% | 0.17% | 0.17% | 0.17% | 0.29% | 0.29% | 0.50% | 0.02 % | 0.31% |
| | Sesbania exulta | 0.02% | 0.02% | | 0.02% | 0.29% | 0.05% | 0.02% | 0.17% | 0.29% | 0.23% | 0.50% | 0.23% | 0.31% |
| | Unk. Opposite Broadleaf | 1 | 0.02 % | | 0.07 % | 0.13% | 0.03% | 0.02% | 0.02% | 0.0276 | | 0.05% | | |
| | Urena lobata | 0.05% | 0.07% | | | 0.02% | 0.09% | 0.05% | | 0.17% | | 0.03% | | |
| 1 | Urena Iupata | 0.05% | 0.07% | | | 0.02% | 0.09% | 0.05% | | 0.17% | | 0.09% | | |

APPENDIX C TOTAL COVER OF RECRUITED SPECIES IN THE WETLAND CELLS

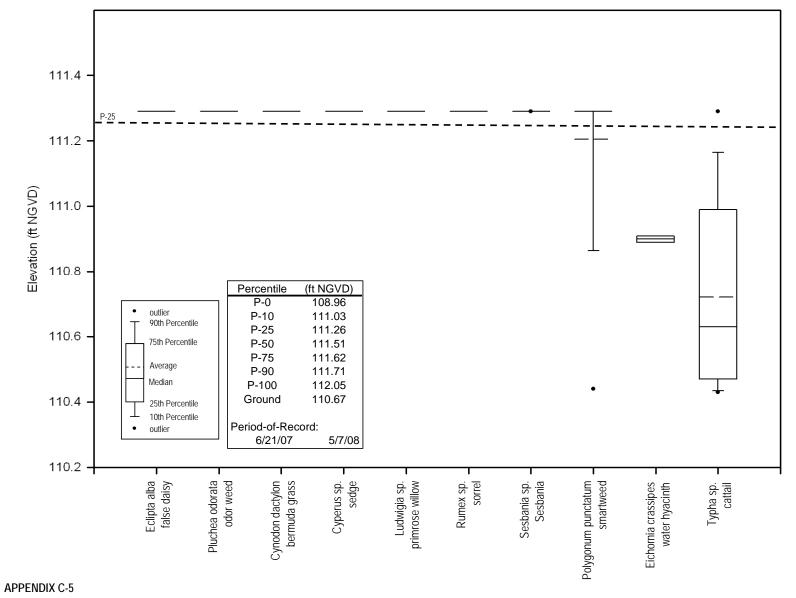
| Average | | DATE | | | | | | | | | | | | |
|---------|-----------------------------|-----------|-----------|----------|-----------|--------|--------|------------|--------|-----------|-----------|-----------|-----------|-----------|
| CELL | SPECIES | 6/21/2007 | 7/17/2007 | 8/3/2007 | 8/13/2007 | | | 11/14/2007 | | 1/16/2008 | 2/13/2008 | 3/12/2008 | 4/16/2008 | 5/22/2008 |
| W1 | Aeschynomene indica | | | | | 0.05% | 0.05% | 0.07% | 0.45% | | | | | 0.19% |
| | Alternanthera philoxeroides | | | | 0.05% | 0.19% | 0.05% | | | | | | 0.02% | |
| | Amaranthus australis | | | | | | | | | | | | | 0.69% |
| | Ampelopsis arboreum | | | | | | 0.17% | 0.71% | | | | | | |
| | Bacharis halimifolia | | | | | | | | | | | | 0.07% | 0.22% |
| | Bidens alba | | | | | | | | | | | 0.02% | | |
| | Chara sp. | | | | | | | | | | | | 0.98% | |
| | Cicuta mexicana | | | | | | | | | | | | | 0.07% |
| | Commelina diffusa | | | | | | | | 0.02% | 0.02% | 0.14% | 0.14% | 0.02% | |
| | Cynodon dactylon | | | | | | | | 0.12% | 0.36% | 0.45% | 0.38% | 0.76% | 0.14% |
| | Cyperus odoratus | | | | | 0.24% | 0.47% | 0.50% | 0.74% | 1.07% | 2.02% | 1.19% | 0.62% | 0.62% |
| | Cyperus small fruit | | | | | 0.05% | | | 0.05% | 0.10% | | | 0.98% | |
| | Cyperus species | | | | | | | | | | | | | 0.36% |
| | Eclipta alba | | | | | | 0.02% | 0.07% | 0.12% | 0.33% | 0.74% | 0.55% | 0.36% | 0.50% |
| | Eichornia crassipes | | | | 0.02% | 0.24% | 0.31% | 1.60% | 1.14% | 0.86% | 1.83% | 0.67% | 0.33% | 0.17% |
| | Eupatorium sp. | 1 | | | | | | | 0.02% | | 0.52% | 0.19% | 0.26% | 0.45% |
| | Fuirena sp. | 1 | | | | | 0.10% | | | | | | | |
| | Grass unknown | 1 | | | | | | 0.10% | | 0.17% | | 0.05% | 0.02% | 0.52% |
| | Hydrilla verticulata | | | | | | | | | | 0.57% | | | 0.02% |
| | Hydrocotyl species | | | | | | | | | | | | 0.02% | |
| | Hymenachne amplexicaulis | | | | | | | | 0.29% | 0.29% | | | 0.29% | 1.55% |
| | Imperata cylindrica | | 0.33% | | 0.62% | 0.10% | | | 0.29% | 0.81% | 1.60% | 1.05% | 0.55% | 0.86% |
| | Legume unknown | | | | | | | | 0.02% | | | | | |
| | Lemna sp. | | | | | | | | | | 0.14% | | | |
| | Lippia nodiflora | | | | | | | | | | | | | 0.36% |
| | Ludwigia decurrens | | | | | | 0.02% | 0.05% | 0.14% | 0.07% | | | | |
| | Ludwigia octovalvis | | | | | | 0.19% | 0.55% | 0.12% | 0.31% | | | 0.05% | 1.36% |
| | Ludwigia peruviana | | | | | | 0.1070 | 0.07% | 0.24% | 0.33% | 0.45% | 0.50% | 0.33% | 0.79% |
| | Ludwigia sp | | | | | 0.12% | | 0.01 /0 | 0.2170 | 0.0070 | 0.1070 | 0.0070 | 0.0070 | 0.1.07 |
| | Macroptilium lathyroides | | | | | 0.1270 | | | | | | | 0.02% | 0.10% |
| | Nonvascular unknown | | | | | | | | 0.02% | | | | 0.0270 | 0.107 |
| | Panicum hemitomon | | | | 0.02% | 0.14% | 0.02% | | 0.0270 | | | | | |
| | Panicum repens | | | | 0.0270 | 0.05% | 0.02 % | | | | | | | |
| | Pluchua odorata | | | | | 0.0070 | 0.1770 | | | | | 0.05% | 0.02% | 0.05% |
| | Polygonum punctatum | | | | | 0.05% | 0.05% | 0.07% | 0.10% | 0.67% | 0.29% | 0.03% | 0.60% | 0.81% |
| | Red-center grass | | | | 0.02% | 0.03% | 0.05% | 0.07 /8 | 0.02% | 0.07 /8 | 0.2378 | 0.40% | 0.00% | 0.02% |
| | Sedge unknown | | | | 0.02% | 0.12% | 0.03% | | 0.02% | | | 0.02% | 0.02% | 0.02% |
| | Sesbania exulta | | 0.02% | | 0.14% | 0.17% | 0.02 % | 0.07% | 0.07% | 0.05% | | | 0.07% | 0.41% |
| | Typha sp. | | 0.02 % | | 0.14% | 0.1776 | 0.12% | 0.07% | 0.07% | 0.03% | 1.12% | 0.48% | 1.43% | 2.98% |
| | Unk. Opposite Broadleaf | | | | | | 0.02% | 0.07 % | 0.26% | 0.32% | 1.12% | 0.48% | 2.10% | 2.90% |
| | Urena lobata | | | | 0.02% | | | | 0.03% | 0.29% | 0.07% | 0.05% | 0.02% | 0.02% |
| W2 | Aeschynomene indica | | | | 0.02 % | 0.10% | 0.22% | 0.41% | 0.10% | | 0.07% | 0.05% | 0.02% | 0.02% |
| VVZ | Alternanthera philoxeroides | | | | | 0.10% | 0.22% | 0.41% | 0.12% | | | | | |
| | Amaranthus australis | | | | | 0.12% | 0.02% | | | | | | | 0.07% |
| | Amannia coccinia | | | | | | 0.07% | 0.05% | 0.07% | 0.05% | | 0.05% | | 0.07% |
| | Bacharis halimifolia | | | | | | 0.07% | 0.05% | 0.07% | 0.05% | | 0.05% | | |
| | | | | | | | | | | 0.05% | | 0.1.49/ | | |
| | Bidens alba | 1 | | | | | | | | 0.760/ | 0.000/ | 0.14% | 0.1.49/ | 0.000 |
| | Cynodon dactylon | 1 | | | | 0 5001 | 1.0001 | 0.45% | 4 5701 | 0.76% | 0.93% | 0.48% | 0.14% | 0.029 |
| | Cyperus odoratus | 1 | | | | 0.50% | 1.22% | 0.45% | 1.57% | 2.69% | 2.00% | 0.95% | 1.31% | 0.17% |
| | Cyperus small fruit | 1 | | | | 0.48% | 0.22% | 0.12% | 0.02% | 0.17% | | 0.02% | 0.22% | |
| | Cyperus species | 1 | | | | | | 0.02% | 0.02% | | | | | 0.19% |
| | Eclipta alba | 1 | | | | | | | 0.05% | 0.07% | 2.43% | 1.88% | 1.60% | 0.36% |
| | Eichornia crassipes | | | | 0.12% | 0.69% | 1.95% | 5.86% | 7.69% | 20.21% | 19.07% | 7.09% | 15.00% | 12.50% |

APPENDIX C TOTAL COVER OF RECRUITED SPECIES IN THE WETLAND CELLS

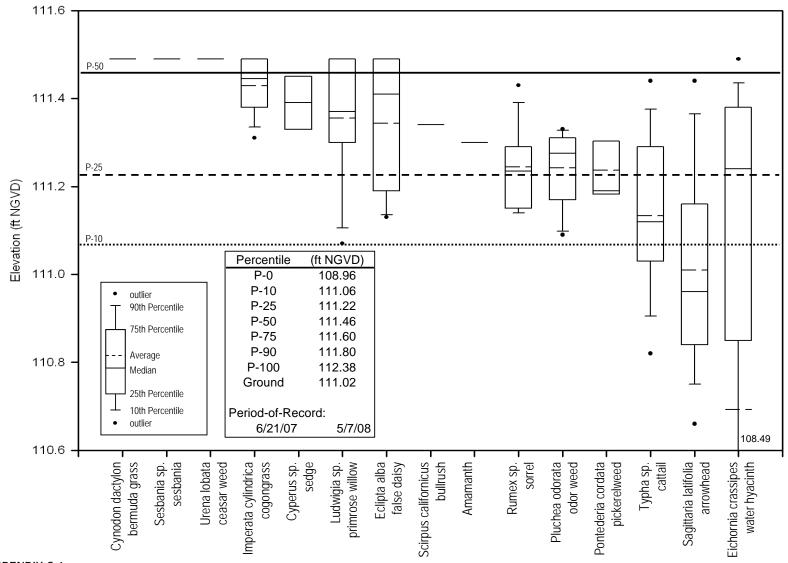
| Average | | DATE | | | | | | | | | | | | |
|----------|---------------------------------------|-----------|-----------|----------|-----------|-----------|------------|------------|------------|-----------|-----------|-----------|-----------|-----------|
| CELL | SPECIES | 6/21/2007 | 7/17/2007 | 8/3/2007 | 8/13/2007 | 9/13/2007 | 10/11/2007 | 11/14/2007 | 12/13/2007 | 1/16/2008 | 2/13/2008 | 3/12/2008 | 4/16/2008 | 5/22/2008 |
| W2 Cont. | Eleocharis interstincta | | | | | | | | | | | | 0.02% | |
| | Eupatorium sp. | | | | | | | | 0.10% | 0.05% | 1.71% | 0.31% | 0.17% | 0.05% |
| | Fuirena sp. | | | | | | 0.02% | | | | | | | |
| | Grass unknown | | | | | | | | 0.02% | 0.29% | | | | |
| | Imperata cylindrica | | 0.97% | | 2.33% | 7.60% | 4.29% | 3.17% | 2.64% | 12.07% | 10.21% | 3.05% | 5.55% | 2.88% |
| | Legume unknown | | | | | | | | 0.05% | | | | | |
| | Ludwigia decurrens | | | | | | 0.22% | 0.07% | 1.21% | | | | | |
| | Ludwigia octovalvis | | | | | | 0.78% | 0.45% | 0.19% | 1.64% | | | 0.19% | 0.83% |
| | Ludwigia peruviana | | | | | | 0.19% | 0.24% | 0.64% | 1.03% | 1.64% | 1.03% | 1.10% | 1.74% |
| | Ludwigia sp | | | | 0.07% | 0.40% | 0.1370 | 0.2470 | 0.05% | 1.0570 | 1.0470 | 1.0070 | 1.1070 | 1.7 470 |
| | Pluchua odorata | | | | 0.07 /0 | 0.4070 | | | 0.05% | 0.02% | 0.29% | 0.22% | 0.10% | 0.10% |
| | Polygonum punctatum | | | | | | | | 0.05% | 0.02 % | 0.29% | 0.22% | 0.10% | 0.10% |
| | | | | | | | | | | | 0.14% | | | |
| | Pontederia cordata | | | | 0.070/ | 0.400/ | 0.400/ | | 0.000/ | | | | | 0.14% |
| | Red-center grass | | | | 0.07% | 0.12% | 0.10% | | 0.02% | | | | | |
| | Rumex sp. | | | | | | | | | | | | 0.78% | |
| | Sagittaria latifolia | | | | | 0.07% | 0.21% | 1.00% | 0.76% | 0.72% | 2.86% | 2.17% | 5.10% | 6.03% |
| | Scirpus californicus | | | | | | | | 0.02% | | 0.14% | 0.02% | 0.14% | 0.17% |
| | Sesbania exulta | | | | 0.24% | 0.31% | 0.21% | 0.29% | 0.60% | 0.07% | | | | |
| | Typha sp. | | | | | | 0.12% | 0.64% | 1.45% | 2.38% | 3.93% | 4.59% | 7.29% | 12.74% |
| | Unk. Opposite Broadleaf | | | | | | | | | 0.02% | 2.21% | 0.84% | 0.53% | |
| | Urena lobata | | | | 0.02% | | | | 0.02% | | 0.02% | | | |
| W3 | Aeschynomene indica | | | | | | 0.05% | 0.05% | 0.07% | | | | | |
| | Amaranthus australis | | | | | | | | | | | | | 0.17% |
| | Ampelopsis arboreum | | | | 0.05% | | | 0.02% | | 0.14% | | | | |
| | Bacharis halimifolia | | | | | | | | | | | | 0.07% | 0.05% |
| | Bidens alba | | | | | | | | | | | 0.02% | | |
| | Boehmeria cylindrica | | | | | | | | | | | | 0.15% | |
| | Chara sp. | | | | | | 0.93% | | | | | | | |
| | Cicuta mexicana | | | | | | 0.0070 | | | | | | | 0.02% |
| | Commelina diffusa | | | | | | | | | | | 0.02% | 0.02% | 0.0270 |
| | Cynodon dactylon | | | | | | | | 0.24% | 0.64% | 0.86% | 0.02 % | 0.02 % | 0.31% |
| | Cyperus odoratus | | | | | 0.05% | 0.09% | 0.19% | 0.60% | 1.64% | 1.57% | 0.20% | 0.60% | 0.36% |
| | Cyperus small fruit | | | | | 0.03% | 0.03% | 0.1376 | 0.0078 | 1.04 /0 | 1.57 /6 | 0.1978 | 0.00% | 0.3078 |
| | | | | | | 0.02% | 0.02% | | | | | | 0.02% | 0.02% |
| | Cyperus species | | | | | | | 0.000/ | 0.400/ | 0.040/ | 0.500/ | 0.040/ | 0.040/ | |
| | Eclipta alba | | | | | | 0.050/ | 0.02% | 0.43% | 0.81% | 2.50% | 0.31% | 0.64% | 0.45% |
| | Eichornia crassipes | | | | | | 0.05% | 0.19% | 0.07% | 3.14% | 0.43% | 0.02% | 0.02% | 0.02% |
| | Eupatorium sp. | | | | | | | | 0.12% | 0.14% | 2.00% | 0.35% | 0.33% | 0.35% |
| | Grass unknown | | | | | 0.02% | | | 0.02% | 0.57% | 1.14% | 0.05% | | |
| | Hydrocotyl species | | | | | | | | | | | 0.02% | | |
| | Hymenachne amplexicaulis | | | | | | | | 0.07% | | 0.14% | 0.10% | | |
| | Imperata cylindrica | | 0.40% | | 0.31% | 0.14% | | | 0.14% | 1.91% | 1.57% | 0.26% | 0.17% | 0.12% |
| | Ludwigia decurrens | | | | | | | 0.02% | 0.26% | 0.45% | | | | |
| | Ludwigia octovalvis | | | | | | 0.07% | 0.10% | 0.10% | 0.43% | | 0.02% | 0.05% | 0.12% |
| | Ludwigia peruviana | | | | | | 0.05% | 0.10% | 0.07% | 0.31% | 0.71% | 0.15% | 0.22% | 0.17% |
| | Ludwigia sp | | | | 0.02% | 0.05% | | | | | | | | |
| | Panicum repens | | | | | | | | | | | 0.07% | | |
| | Pluchua odorata | | | | | | | 0.02% | 0.02% | 0.02% | | 0.02% | 0.12% | 0.07% |
| | Polygonum punctatum | | | | | 0.02% | 0.05% | 0.05% | 0.05% | 0.45% | 0.57% | 0.64% | 1.79% | 1.05% |
| | Red-center grass | | | | | 0.05% | 0.05% | 0.02% | 0.07% | 0.88% | | 0.05% | 1.50% | 0.38% |
| | Rumex sp. | | | | | 0.0070 | 0.0070 | 0.0270 | 0.0770 | 0.0070 | | 0.0070 | 0.64% | 0.0070 |
| | Sesbania exulta | | | | 0.05% | 0.12% | 0.07% | | 0.05% | 0.05% | | | 0.04% | 0.09% |
| | Typha sp. | | | | 0.05% | 0.12% | 0.07% | 0.05% | 0.05% | 0.05% | 0.29% | 0.17% | 0.02% | 0.09% |
| | , , , , , , , , , , , , , , , , , , , | | | | | | | 0.05% | | | | | | 0.79% |
| | Unk. Opposite Broadleaf | | | | | | | | 0.07% | 1.31% | 2.43% | 0.31% | 0.31% | |
| | Urena lobata | | | | | | | | 0.02% | | 0.14% | | | |

APPENDIX C TOTAL COVER OF RECRUITED SPECIES IN THE WETLAND CELLS

| Average | | DATE | | | | | | | | | | | | |
|---------|-----------------------------|-----------|-----------|----------|-----------|--------|------------|---------|------------|-----------|-----------|-----------|-----------|-----------|
| CELL | SPECIES | 6/21/2007 | 7/17/2007 | 8/3/2007 | 8/13/2007 | | 10/11/2007 | | 12/13/2007 | 1/16/2008 | 2/13/2008 | 3/12/2008 | 4/16/2008 | 5/22/2008 |
| W4 | Aeschynomene indica | | | | | 0.21% | 0.86% | 0.21% | 0.17% | | | | | |
| | Albizia julibrissin | | | | | | | 0.02% | 0.02% | 0.02% | 0.14% | 0.02% | | |
| | Alternanthera philoxeroides | | | | | | | | | 0.14% | | | | |
| | Amaranthus australis | | | | | | | | | | | | | 0.14% |
| | Ampelopsis arboreum | | | | 0.05% | | | 0.02% | 0.05% | | | | 0.02% | |
| | Bacharis halimifolia | | | | | | | | | 0.02% | | | | |
| | Bidens alba | | | | | | | | | | | 0.02% | | |
| | Boehmeria cylindrica | | | | | | | | | | | | 0.33% | |
| | Callicarpa americana | | | | | | | | 0.02% | | | | | |
| | Commelina diffusa | | | | | | | 0.05% | 0.02% | | | | | 0.02% |
| | Cynodon dactylon | | | | | | | | 1.64% | 4.29% | 7.57% | 3.21% | | 3.88% |
| | Cyperus odoratus | | | | | 0.43% | 1.43% | 0.55% | 0.86% | 2.14% | 1.43% | 0.36% | 0.57% | 0.19% |
| | Cyperus small fruit | | | | | 0.45% | 1.29% | 0.41% | 1.07% | | | | | |
| | Cyperus species | | | | | | 0.19% | | | | | | | 0.10% |
| | Desmodium species | | | | | | | | | 0.02% | | | | |
| | Eclipta alba | | | | | | 0.05% | 0.02% | 0.24% | 2.81% | 3.10% | 0.71% | 2.14% | 0.98% |
| | Eichornia crassipes | | | | 0.02% | 0.22% | 0.67% | 1.86% | 0.76% | 2.33% | 2.98% | 1.14% | 7.69% | 8.76% |
| | Eupatorium sp. | | | | 0.0270 | 0.2270 | 0.0170 | 0.19% | 0.26% | 1.62% | 2.29% | 0.40% | 0.93% | 0.22% |
| | Grass unknown | | | | | | | 0.67% | 0.26% | 0.43% | 0.57% | 0.50% | 0.0070 | 0.05% |
| | Hymenachne amplexicaulis | | | | | | | 0.0170 | 0.05% | 0.4070 | 0.0170 | 0.0070 | | 0.007 |
| | Imperata cylindrica | | 0.40% | | 0.38% | 0.17% | | 0.48% | 0.76% | 2.14% | 4.57% | 0.76% | 3.79% | 1.05% |
| | Indigophera hirsuta | | 0.1070 | | 0.0070 | 0 | | 0.1070 | 0.05% | 2 | | 011070 | 0.1070 | |
| | Legume unknown | | | | | | | 0.17% | 0.02% | | | | | |
| | Ludwigia decurrens | | | | | | | 0.02% | 0.57% | 0.43% | | | | |
| | Ludwigia octovalvis | | | | | | 0.55% | 0.57% | 0.17% | 1.86% | | 0.05% | 0.12% | 0.33% |
| | Ludwigia peruviana | | | | | | 0.33% | 0.17% | 0.14% | 0.86% | 1.00% | 0.03% | 0.38% | 0.36% |
| | Ludwigia sp | | | | 0.14% | 0.14% | 0.2478 | 0.17 /0 | 0.05% | 0.00 % | 1.0078 | 0.2470 | 0.30% | 0.507 |
| | Macroptilium lathyroides | | | | 0.1478 | 0.1478 | 0.02% | | 0.03% | | | | | 0.07% |
| | Nonvascular unknown | | | | | | 0.02 % | 0.10% | 0.02% | | | | | 0.07 / |
| | Opposite leaf succulent | | | | | 0.02% | 0.1978 | 0.1078 | 0.0278 | | | | | |
| | Panicum repens | | | | | 0.02% | 1.36% | | | | | | | |
| | Pluchua odorata | | | | | 0.10% | 1.30% | 0.10% | 0.14% | 0.17% | 0.57% | 0.19% | 0.26% | 0.22% |
| | | | | | | | | 0.10% | 0.14% | 0.17% | 0.57% | 0.19% | 0.26% | 0.22% |
| | Polygonum punctatum | | | | 0.14% | 0.400/ | 1.000/ | 0.400/ | | 0.4.40/ | | | | 0.02% |
| | Red-center grass | | | | 0.14% | 0.48% | 1.98% | 0.48% | 0.62% | 0.14% | | | 4 7 40/ | |
| | Rumex sp. | | | | | | | | | | | | 4.74% | |
| | Sagittaria latifolia | | | | | | 0.02% | | 0.02% | 0.02% | 0.14% | 0.02% | 0.36% | 0.55% |
| | Scirpus californicus | 1 | | | | | | | | | | 0.02% | | |
| | Sesbania exulta | | 0.02% | | 0.14% | 0.24% | 0.45% | 0.10% | 0.12% | 0.36% | | | | 0.07% |
| | Typha sp. | 1 | | | | | 0.07% | 0.55% | 0.67% | 1.81% | 4.07% | 4.26% | 9.50% | 11.67% |
| | Unk. Opposite Broadleaf | | | | | | | | 0.33% | 1.79% | 3.14% | 1.19% | 4.69% | |
| | Urena lobata | | | | | 0.02% | 0.05% | 0.02% | 0.02% | | 0.57% | 0.02% | | 0.05% |

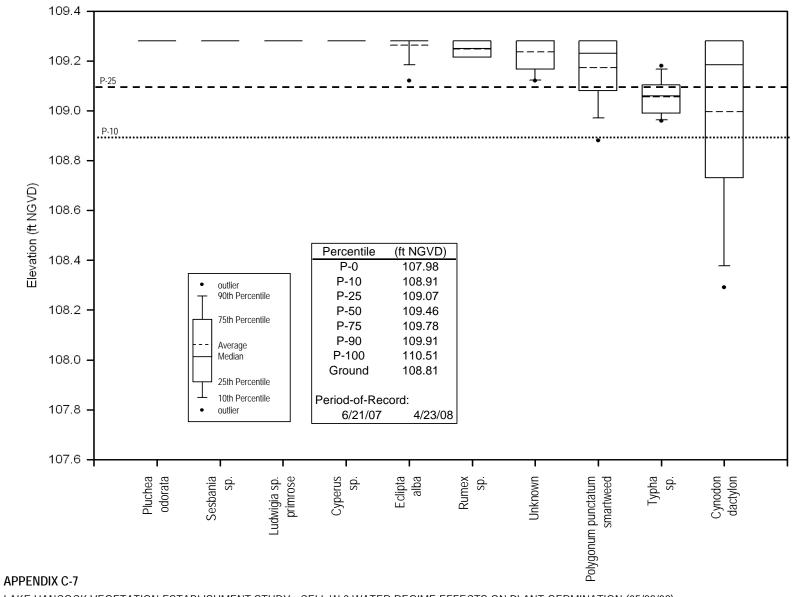


LAKE HANCOCK VEGETATION ESTABLISHMENT STUDY - CELL W-1 WATER REGIME EFFECTS ON PLANT GERMINATION (05/22/08)

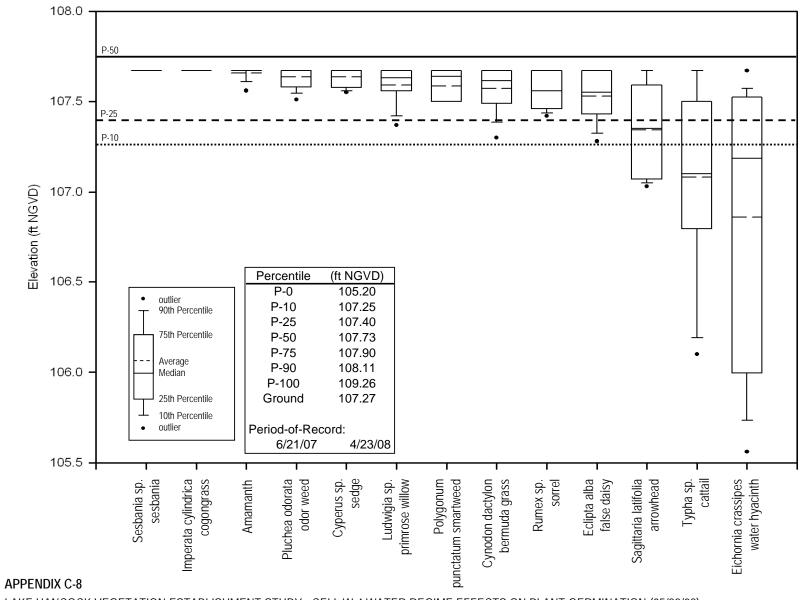


APPENDIX C-6

LAKE HANCOCK VEGETATION ESTABLISHMENT STUDY - CELL W-2 WATER REGIME EFFECTS ON PLANT GERMINATION (05/22/08)



LAKE HANCOCK VEGETATION ESTABLISHMENT STUDY - CELL W-3 WATER REGIME EFFECTS ON PLANT GERMINATION (05/22/08)



LAKE HANCOCK VEGETATION ESTABLISHMENT STUDY - CELL W-4 WATER REGIME EFFECTS ON PLANT GERMINATION (05/22/08)

Appendix D Water Quality Summary

WETLAND SOLUTIONS, INC.

APPENDIX D

LAKE HANCOCK VEGETATION ESTABLISHMENT STUDY - WATER QUALITY STATISTICS June 2007 - May 2008

| | | | | | ę | STATISTIC | S | |
|------------------|-----------|----------|---------|-------|-------|-----------|---------|----|
| GROUP | PARAMETER | UNITS | STATION | AVG | MAX | MIN | STD DEV | Ν |
| TEMPERATURE | Wtr Temp | С | C-1 | 19.6 | 24.0 | 15.6 | 3.34 | 5 |
| | | | C-2 | 23.3 | 27.0 | 17.4 | 3.25 | 10 |
| | | | W-1 | 24.2 | 29.8 | 17.4 | 4.36 | 12 |
| | | | W-2 | 24.1 | 32.9 | 16.1 | 4.77 | 12 |
| | | | W-3 | 24.6 | 31.6 | 18.5 | 4.28 | 12 |
| | | | W-4 | 25.0 | 31.8 | 19.3 | 4.49 | 12 |
| | | | W-5 | 27.4 | 39.7 | 20.0 | 5.49 | 13 |
| DISSOLVED OXYGEN | DO | mg/L | C-1 | 3.29 | 9.03 | 0.58 | 3.32 | 5 |
| | | | C-2 | 6.74 | 17.0 | 1.59 | 5.31 | 10 |
| | | | W-1 | 6.51 | 11.9 | 2.60 | 3.02 | 12 |
| | | | W-2 | 4.17 | 11.0 | 1.57 | 2.78 | 12 |
| | | | W-3 | 6.50 | 11.3 | 1.66 | 3.28 | 12 |
| | | | W-4 | 8.09 | 14.9 | 2.90 | 3.72 | 12 |
| | | | W-5 | 9.37 | 11.4 | 2.97 | 2.10 | 13 |
| | DO | % | C-1 | 37.6 | 107.3 | 5.80 | 40.2 | 5 |
| | | | C-2 | 78.7 | 210 | 19.4 | 63.6 | 10 |
| | | | W-1 | 76.1 | 125 | 34.3 | 31.5 | 12 |
| | | | W-2 | 51.3 | 152 | 18.0 | 38.5 | 12 |
| | | | W-3 | 77.3 | 136 | 21.5 | 37.9 | 12 |
| | | | W-4 | 96.8 | 162 | 37.5 | 41.7 | 12 |
| | | | W-5 | 118 | 162 | 37.2 | 29.3 | 13 |
| PHYSICAL | рН | SU | C-1 | 7.59 | 8.01 | 7.14 | 0.315 | 5 |
| | | | C-2 | 7.58 | 8.56 | 6.97 | 0.623 | 10 |
| | | | W-1 | 7.98 | 8.79 | 7.24 | 0.561 | 12 |
| | | | W-2 | 7.86 | 9.01 | 7.27 | 0.530 | 12 |
| | | | W-3 | 8.13 | 8.94 | 7.26 | 0.543 | 12 |
| | | | W-4 | 8.58 | 9.51 | 7.34 | 0.670 | 12 |
| | | | W-5 | 9.19 | 10.1 | 8.11 | 0.514 | 13 |
| | Secchi | m | C-1 | 0.477 | 0.900 | 0.178 | 0.310 | 5 |
| | | | C-2 | 0.377 | 0.700 | 0.122 | 0.207 | 6 |
| | | | W-1 | 0.752 | 1.52 | 0.160 | 0.495 | 10 |
| | | | W-2 | 0.932 | 1.80 | 0.110 | 0.616 | 9 |
| | | | W-3 | 1.25 | 2.60 | 0.200 | 0.861 | 8 |
| | | | W-4 | 0.881 | 1.80 | 0.190 | 0.587 | 9 |
| | | | W-5 | 0.187 | 0.400 | 0.061 | 0.135 | 11 |
| | SpCond | umhos/cm | C-1 | 399 | 432 | 374 | 24.3 | 5 |
| | | | C-2 | 357 | 464 | 277 | 58.9 | 10 |
| | | | W-1 | 296 | 388 | 179 | 60.3 | 12 |
| | | | W-2 | 301 | 404 | 208 | 70.4 | 12 |
| | | | W-3 | 295 | 444 | 194 | 72.7 | 12 |
| | | | W-4 | 244 | 366 | 144 | 70.3 | 12 |
| | | | W-5 | 314 | 376 | 266 | 32.4 | 13 |

APPENDIX D

LAKE HANCOCK VEGETATION ESTABLISHMENT STUDY - WATER QUALITY STATISTICS June 2007 - May 2008

| | | | | | Ş | STATISTIC | s | |
|-------------------|------------|-------|---------|-------|-------|-----------|---------|----|
| GROUP | PARAMETER | UNITS | STATION | AVG | MAX | MIN | STD DEV | Ν |
| SOLID | TSS | mg/L | C-1 | 40.0 | 71.0 | 21.0 | 19.1 | 5 |
| | | | C-2 | 31.4 | 63.3 | 13.0 | 16.2 | 10 |
| | | | W-1 | 28.7 | 60.0 | 8.00 | 17.7 | 15 |
| | | | W-2 | 25.6 | 138 | 5.00 | 36.5 | 13 |
| | | | W-3 | 11.6 | 36.0 | 4.00 | 9.11 | 13 |
| | | | W-4 | 23.6 | 50.0 | 3.0 | 13.1 | 15 |
| | | | W-5 | 122 | 183 | 25.0 | 40.4 | 15 |
| BIOLOGICAL | Chl-a corr | µg/L | W-2 | 21.4 | 21.4 | 21.4 | | 1 |
| | | | W-3 | 13.1 | 13.1 | 13.1 | | 1 |
| | | | W-4 | 39.7 | 39.7 | 39.7 | | 1 |
| | | | W-5 | 306 | 384 | 228 | 110 | 2 |
| GENERAL INORGANIC | SO4 | mg/L | C-1 | 6.02 | 11.3 | 0.740 | 7.47 | 2 |
| | | | C-2 | 2.67 | 8.13 | 0.638 | 3.65 | 4 |
| | | | W-1 | 7.68 | 9.57 | 6.92 | 1.09 | 5 |
| | | | W-2 | 6.86 | 11.2 | 2.43 | 4.58 | 4 |
| | | | W-3 | 5.14 | 12.2 | 0.165 | 5.26 | 5 |
| | | | W-4 | 6.78 | 10.9 | 1.64 | 3.55 | 5 |
| | | | W-5 | 14.7 | 15.7 | 13.9 | 0.793 | 4 |
| NITROGEN | NH4-N | mg/L | C-1 | 0.829 | 1.54 | 0.101 | 0.650 | 5 |
| | | | C-2 | 1.29 | 6.51 | 0.082 | 1.95 | 10 |
| | | | W-1 | 0.063 | 0.181 | 0.020 | 0.042 | 15 |
| | | | W-2 | 0.197 | 1.60 | 0.032 | 0.426 | 13 |
| | | | W-3 | 0.069 | 0.395 | 0.010 | 0.107 | 13 |
| | | | W-4 | 0.045 | 0.107 | 0.005 | 0.028 | 15 |
| | | | W-5 | 0.173 | 0.244 | 0.005 | 0.061 | 15 |
| | TKN-D | mg/L | C-1 | 5.23 | 6.47 | 4.34 | 1.056 | 5 |
| | | | C-2 | 5.05 | 9.84 | 3.42 | 2.05 | 10 |
| | | | W-1 | 3.25 | 4.83 | 2.32 | 0.731 | 15 |
| | | | W-2 | 3.17 | 6.16 | 2.34 | 1.04 | 13 |
| | | | W-3 | 2.11 | 4.89 | 0.830 | 1.19 | 13 |
| | | | W-4 | 2.35 | 4.91 | 1.42 | 1.11 | 15 |
| | | | W-5 | 5.20 | 7.69 | 3.63 | 1.31 | 15 |
| | TKN | mg/L | C-1 | 9.45 | 10.2 | 8.27 | 0.905 | 5 |
| | | | C-2 | 8.00 | 12.2 | 4.79 | 2.52 | 10 |
| | | | W-1 | 4.85 | 9.43 | 2.32 | 1.85 | 15 |
| | | | W-2 | 4.00 | 7.45 | 2.34 | 1.70 | 13 |
| | | | W-3 | 2.63 | 7.05 | 1.21 | 1.59 | 13 |
| | | | W-4 | 3.45 | 9.02 | 1.42 | 2.24 | 15 |
| | | | W-5 | 15.1 | 20.5 | 10.2 | 3.01 | 15 |

APPENDIX D

LAKE HANCOCK VEGETATION ESTABLISHMENT STUDY - WATER QUALITY STATISTICS June 2007 - May 2008

| GROUP PARAMETER UNITS STATION AVG MAX MIN STD DEV NITROGEN NOx-N mg/L C-1 0.021 0.061 0.008 0.017 W-1 0.019 0.060 0.002 0.015 0.008 0.013 W-2 0.020 0.049 0.003 0.006 0.008 0.013 W-3 0.014 0.031 0.002 0.009 0.022 0.009 0.022 TN mg/L C-1 9.47 10.2 8.32 0.896 0.55 0.091 0.009 0.022 0.009 0.022 0.009 0.022 0.008 0.012 0.031 0.006 0.013 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.012 0.031 0.002 0.022 0.43 1.85 1.70 W-2 4.80 3.24 1.85 1.70 0.301 0.000 0.012 0.013 0.021 0.014 0.001 0.013 | | | | | | | STATISTIC | | |
|---|------------|--------|--------|-----|-------|-------|-----------|-------|----|
| PHOSPHORUS OrthoP mg/L C-1 0.024 0.061 0.006 0.019 W-1 0.019 0.060 0.002 0.0113 W-3 0.014 0.031 0.006 0.008 W-3 0.012 0.031 0.000 0.022 TN mg/L C-1 9.47 10.2 8.32 0.896 W-1 4.87 9.45 2.34 1.85 W.22 4.02 7.49 2.35 1.70 W-2 4.02 7.49 2.35 1.70 W.33 2.64 7.07 1.23 1.59 W-4 3.46 9.04 1.43 2.24 0.011 0.013 C-2 0.033 0.100 0.013 0.000 0.013 0.000 0.013 W-4 0.454 9.04 1.43 2.24 0.44 0.011 0.013 W-5 0.021 0.041 0.006 0.013 0.001 0.013 0.45 0.42 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>Ν</th></t<> | | | | | | | | | Ν |
| PHOSPHORUS OrthoP mg/L C-1 9.014 0.060 0.002 0.013 W-4 0.012 0.031 0.006 0.009 0.002 0.009 TN mg/L C-1 9.47 10.2 8.32 0.896 C-2 8.03 12.3 4.80 2.53 1.70 W-4 0.422 7.49 2.35 1.70 W-3 2.64 7.07 1.23 4.80 2.53 W-4 3.46 9.041 1.433 2.24 W-5 10.21 0.014 0.006 0.013 W-4 3.46 9.04 1.43 2.24 W-5 15.2 20.5 10.3 3.00 W-4 3.46 9.041 0.008 0.186 W+4 0.317 0.514 0.010 0.031 W-2 0.238 0.422 0.053 0.092 W-3 0.454 0.787 0.390 0.113 | NITROGEN | NOx-N | mg/L | | | | | | 5 |
| W-2 0.020 0.049 0.003 0.013 W-3 0.014 0.031 0.002 0.009 W-5 0.055 0.091 0.002 0.009 W-7 0.012 8.32 0.896 TN mg/L C-1 9.47 10.2 8.32 0.896 W-1 4.87 9.45 2.34 1.85 1.70 W-2 4.02 7.49 2.35 1.70 W-3 2.64 7.07 1.23 1.59 W-4 3.46 9.041 1.43 2.24 PHOSPHORUS OrthoP mg/L C-1 0.021 0.041 0.006 0.013 W-4 3.46 9.04 0.030 0.010 0.037 0.442 0.337 0.454 0.307 0.145 W-4 0.317 0.514 0.180 0.105 W-5 0.012 0.010 0.013 W-2 1.30 2.28 0.317 0.514 0.180< | | | | | | | 0.006 | | 10 |
| PHOSPHORUS Orthop mg/L C-1 9.47 10.02 0.009 0.002 TN mg/L C-1 9.47 10.2 8.32 0.896 C-2 8.03 12.3 4.80 2.53 0.009 0.022 W-1 4.87 9.45 2.34 1.85 0.480 0.013 0.006 0.013 W-2 4.02 7.49 2.35 1.70 0.23 1.59 0.041 0.006 0.013 W-4 3.46 9.04 1.43 2.24 0.055 0.041 0.006 0.013 W-4 3.46 9.04 1.43 2.24 0.055 0.021 0.041 0.006 0.013 W-4 0.021 0.041 0.006 0.013 0.001 0.037 0.145 W-4 0.317 0.544 0.787 0.307 0.145 W-4 0.317 0.514 0.801 0.601 0.013 W-5 0.51 | | | | W-1 | | | | | 15 |
| TN mg/L C-1 0.48 0.001 0.002 0.009 W-4 0.012 0.031 0.002 0.022 0.022 TN mg/L C-1 9.47 10.2 8.32 0.896 W-1 4.87 9.45 2.34 1.85 1.70 W-2 4.02 7.49 2.35 1.70 W-3 2.64 7.07 1.23 1.59 W-4 3.46 9.04 1.43 2.24 W-5 15.2 20.5 10.3 3.00 PHOSPHORUS OrthoP mg/L C-1 0.021 0.044 0.008 0.186 W-2 0.238 0.422 0.033 0.001 0.017 0.448 0.008 0.186 W-2 0.238 0.422 0.637 0.307 0.145 W-3 0.454 0.787 0.307 0.145 W-4 0.317 0.514 0.801 0.601 0.013 | | | | | | | | | 13 |
| TN mg/L C-1 9.47 10.2 8.32 0.896 TN mg/L C-1 9.47 10.2 8.32 0.896 W-1 4.87 9.45 2.34 1.85 0.896 W-1 4.87 9.45 2.34 1.85 W-2 4.02 7.49 2.35 1.70 W-3 2.64 7.07 1.23 1.59 W-4 3.46 9.04 1.43 2.24 W-4 3.46 9.04 1.43 2.24 W-4 0.021 0.041 0.006 0.013 C-2 0.033 0.100 0.001 0.037 W-4 0.291 0.044 0.787 0.307 W-2 0.238 0.422 0.053 0.092 W-3 0.454 0.787 0.307 0.145 W-3 0.454 0.787 0.307 0.145 W-4 1.69 5.70 0.641 1.16 | | | | W-3 | 0.014 | 0.031 | 0.006 | 0.008 | 13 |
| TN mg/L C-1 9.47 10.2 8.32 0.896 C-2 8.03 12.3 4.80 2.53 1.85 W-2 4.02 7.49 2.35 1.70 W-3 2.64 7.07 1.23 1.59 W-4 3.46 9.04 1.43 2.24 W-5 15.2 20.5 10.3 3.00 PHOSPHORUS OrthoP mg/L C-1 0.021 0.041 0.006 0.013 W-4 0.291 0.748 0.008 0.186 W-2 0.238 0.422 0.053 0.092 W-3 0.454 0.787 0.307 0.145 W-3 0.464 0.787 0.307 0.145 W-4 0.317 0.514 0.180 0.105 W-3 0.102 0.00 0.438 0.60 W-3 1.04 3.16 0.589 0.707 W-4 0.581 0.887 0.327 0.180 METAL </td <td></td> <td></td> <td></td> <td>W-4</td> <td>0.012</td> <td>0.031</td> <td>0.002</td> <td>0.009</td> <td>15</td> | | | | W-4 | 0.012 | 0.031 | 0.002 | 0.009 | 15 |
| PHOSPHORUS OrthoP mg/L C-1 4.87 9.45 2.34 1.85 PHOSPHORUS OrthoP mg/L C-1 0.021 0.041 0.006 0.013 PHOSPHORUS OrthoP mg/L C-1 0.021 0.041 0.006 0.013 PHOSPHORUS OrthoP mg/L C-1 0.021 0.041 0.006 0.013 W-2 0.238 0.422 0.053 0.092 0.044 0.088 0.186 W-2 0.238 0.422 0.053 0.092 0.043 0.60 W-3 0.454 0.787 0.307 0.145 0.015 0.010 0.013 W-4 0.317 0.514 0.100 0.013 0.010 0.013 0.015 0.011 0.010 0.013 W-4 0.317 0.514 0.105 0.41 0.136 0.531 0.392 0.141 0.316 0.531 W-4 1.69 5.70 0.641 | | | | W-5 | 0.055 | 0.091 | 0.009 | 0.022 | 15 |
| Multical W-1 W-2 W-2 W-2 W-2 W-4 W-4 W-4 W-4 W-4 W-4 W-4 W-4 W-4 W-4 | | TN | mg/L | C-1 | 9.47 | 10.2 | 8.32 | 0.896 | 5 |
| W-2 4.02 7.49 2.35 1.70 W-3 2.64 7.07 1.23 1.59 W-3 2.64 9.04 1.43 2.24 W-5 15.2 20.5 10.3 3.00 PHOSPHORUS OrthoP mg/L C-1 0.021 0.041 0.006 0.013 W-4 0.291 0.748 0.008 0.186 W-2 0.238 0.422 0.053 0.092 W-4 0.317 0.514 0.180 0.105 W-4 0.317 0.514 0.186 0.013 TP mg/L C-1 1.00 2.00 0.438 0.60 0.531 W-4 0.317 0.514 0.316 0.531 0.390 W-2 1.50 6.54 0.629 1.54 W-3 1.04 3.16 0.581 0.387 0.377 0.186 W-4 1.69 5.70 0.641 1.16 W-2 1.50 6.54 <td></td> <td></td> <td></td> <td>C-2</td> <td>8.03</td> <td>12.3</td> <td>4.80</td> <td>2.53</td> <td>10</td> | | | | C-2 | 8.03 | 12.3 | 4.80 | 2.53 | 10 |
| W-3 2.64 7.07 1.23 1.59 W-4 3.46 9.04 1.43 2.24 W-4 3.46 9.04 1.43 2.24 W-4 0.46 9.04 1.43 2.24 W-5 15.2 20.5 10.3 3.00 PHOSPHORUS OrthoP mg/L C-1 0.021 0.041 0.006 0.013 W-4 0.317 0.748 0.008 0.186 W-2 0.238 0.422 0.053 0.092 W-3 0.454 0.787 0.307 0.145 W-4 0.317 0.514 0.100 0.013 W-5 0.012 0.051 0.001 0.013 W-5 0.012 0.051 0.001 0.013 W-5 0.612 0.675 2.16 0.316 0.531 W-1 1.31 2.28 0.871 0.390 W-2 1.50 6.54 0.629 1.54 W-3 1.64 3.16 0. | | | | W-1 | 4.87 | 9.45 | 2.34 | 1.85 | 15 |
| PHOSPHORUS OrthoP mg/L C-1 0.021 0.041 0.006 0.013 W-5 0.033 0.100 0.001 0.037 0.001 0.037 W-1 0.291 0.748 0.008 0.186 W-2 0.238 0.422 0.053 0.092 W-3 0.454 0.787 0.307 0.145 W-3 0.454 0.787 0.307 0.145 W-4 0.317 0.514 0.180 0.105 W-4 0.317 0.514 0.180 0.105 W-4 0.317 0.514 0.180 0.105 W-3 0.454 0.787 0.307 0.145 W-4 0.317 0.514 0.180 0.105 W-3 0.675 2.16 0.316 0.531 W-4 1.31 2.28 0.871 0.390 W-4 1.69 5.70 0.641 1.16 W-4 1.69 5.70 0.641 1.16 W-2 831 1910 | | | | W-2 | 4.02 | 7.49 | 2.35 | 1.70 | 13 |
| PHOSPHORUS OrthoP mg/L C-1 0.021 0.041 0.006 0.013 C-2 0.033 0.100 0.001 0.037 0.291 0.748 0.008 0.186 W-2 0.238 0.422 0.053 0.092 0.43 0.014 0.008 0.145 W-2 0.238 0.422 0.053 0.092 0.434 0.307 0.145 W-4 0.317 0.514 0.180 0.105 0.001 0.013 W-5 0.012 0.051 0.001 0.013 0.454 0.531 0.454 W-5 0.012 0.051 0.001 0.013 0.454 0.531 0.454 0.531 0.454 0.531 0.454 0.531 0.454 0.529 1.54 W-1 1.31 2.28 0.871 0.390 W-2 1.50 6.54 0.629 1.54 W-2 1.50 6.54 0.629 1.54 W-3 0.641 1.16 | | | | W-3 | 2.64 | 7.07 | 1.23 | 1.59 | 13 |
| PHOSPHORUS OrthoP mg/L C-1 0.021 0.041 0.006 0.013 W-1 0.291 0.748 0.008 0.186 0.033 0.000 0.001 0.037 W-1 0.291 0.748 0.008 0.186 0.192 0.748 0.008 0.186 W-2 0.238 0.422 0.053 0.092 0.454 0.787 0.307 0.145 W-3 0.454 0.787 0.307 0.145 0.101 0.101 0.1013 TP mg/L C-1 1.00 2.00 0.438 0.60 W-5 0.12 0.051 0.001 0.013 0.80 0.80 0.80 0.80 0.80 0.81 <td< td=""><td></td><td></td><td></td><td>W-4</td><td>3.46</td><td>9.04</td><td>1.43</td><td>2.24</td><td>15</td></td<> | | | | W-4 | 3.46 | 9.04 | 1.43 | 2.24 | 15 |
| METAL Al-T µg/L C-1 323 0.100 0.001 0.037 W-1 0.231 0.748 0.008 0.186 W-2 0.238 0.422 0.053 0.092 W-3 0.454 0.777 0.307 0.145 W-4 0.317 0.514 0.180 0.105 W-4 0.317 0.514 0.180 0.531 W-1 1.31 2.28 0.871 0.390 W-2 1.50 6.54 0.629 1.54 W-3 1.04 3.16 0.589 0.707 W-4 1.69 5.70 0.641 1.16 W-5 0.581 0.887 0.327 0.180 METAL Al-T µg/L C-1 323 581 | | | | W-5 | 15.2 | 20.5 | 10.3 | 3.00 | 15 |
| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ | PHOSPHORUS | OrthoP | mg/L | C-1 | 0.021 | 0.041 | 0.006 | 0.013 | 5 |
| METAL AI-T µg/L C-1 1.00 2.00 0.454 0.787 0.307 0.145 W-4 0.317 0.514 0.180 0.105 0.001 0.013 TP mg/L C-1 1.00 2.00 0.438 0.60 W-5 0.072 0.0651 0.001 0.013 0.99 W-1 1.31 2.28 0.871 0.390 0.454 W-1 1.31 2.28 0.871 0.390 W-2 1.50 6.54 0.629 1.54 W-3 1.04 3.16 0.589 0.707 W-4 1.69 5.70 0.641 1.16 W-5 0.581 0.887 0.327 0.180 METAL µg/L C-1 323 581 64.7 365 W-4 1.466 2.400 596 837 30.6 31 310 324 311 W-2 831 1.910 241 </td <td></td> <td></td> <td></td> <td>C-2</td> <td>0.033</td> <td>0.100</td> <td>0.001</td> <td>0.037</td> <td>10</td> | | | | C-2 | 0.033 | 0.100 | 0.001 | 0.037 | 10 |
| Metal W-3 W+4 0.454 0.317 0.514 0.514 0.145 0.160 0.010 0.013 TP mg/L C-1 C-2 0.675 2.16 0.316 0.531 W-1 1.31 2.28 0.871 0.390 0.4454 0.77 W-1 1.31 2.28 0.871 0.390 0.77 0.641 0.166 W-2 1.50 6.54 0.629 1.54 0.707 0.641 1.16 W-3 1.04 3.16 0.589 0.707 0.180 METAL Al-T µg/L C-1 323 581 64.7 365 METAL Al-T µg/L C-1 323 581 64.7 365 W-3 567 633 466 88.8 37 370 370 W-4 1.466 2.400 596 837 371 382 2.19 Ca-T mg/L C-1 39.8 41.3 38.2 2.19 Ca- | | | | W-1 | 0.291 | 0.748 | 0.008 | 0.186 | 15 |
| Meta W-4 W-5 0.317 0.012 0.514 0.001 0.105 0.001 0.105 0.013 TP mg/L C-1 1.00 2.00 0.438 0.60 C-2 0.675 2.16 0.316 0.531 W-1 1.31 2.28 0.871 0.390 W-2 1.50 6.54 0.629 1.54 W-3 1.04 3.16 0.589 0.707 W-4 1.069 5.70 0.641 1.16 W-4 1.069 5.70 0.641 1.16 W-4 0.581 0.887 0.327 0.180 METAL Al-T µg/L C-1 323 581 64.7 365 W-1 802 1,040 347 310 W-1 936 W-3 567 633 466 88.8 W-4 1.466 2,400 596 837 W-3 567 633 466 88.8 W-4 1.466 2,400 | | | | W-2 | 0.238 | 0.422 | 0.053 | 0.092 | 13 |
| TP mg/L C-1 1.00 2.00 0.438 0.60 W-1 1.31 2.28 0.871 0.390 0.93 W-2 1.50 6.54 0.629 1.54 W-3 1.04 3.16 0.589 0.707 W-3 1.04 3.16 0.589 0.707 W-4 1.69 5.70 0.641 1.16 W-5 0.581 0.887 0.327 0.180 METAL Al-T µg/L C-1 323 581 64.7 365 W-1 802 1,040 347 310 344 631 W-7 803 1.66 88.8 343 291 3567 633 466 88.8 W-4 1.466 2.400 596 837 367 365 5.18 32.12 31 35.7 22.6 8.32 2.19 33.1 35.7 28.3 4.19 32.4 32.19 33.1 < | | | | W-3 | 0.454 | 0.787 | 0.307 | 0.145 | 13 |
| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ | | | | W-4 | 0.317 | 0.514 | 0.180 | 0.105 | 15 |
| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ | | | | W-5 | 0.012 | 0.051 | 0.001 | 0.013 | 15 |
| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ | | TP | mg/L | C-1 | 1.00 | 2.00 | 0.438 | 0.60 | 5 |
| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ | | | 0 | C-2 | 0.675 | 2.16 | 0.316 | | 10 |
| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ | | | | | | | | | 16 |
| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ | | | | | | | | | 14 |
| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ | | | | | | | | | 14 |
| METAL Al-T µg/L C-1 323 581 64.7 365 WETAL Al-T µg/L C-1 323 581 64.7 365 W-1 802 1,040 347 310 W-1 802 1,040 347 310 W-2 831 1,910 241 936 W-3 567 633 466 88.8 W-4 1,466 2,400 596 837 W-5 570 898 343 291 Ca-T mg/L C-1 39.8 41.3 38.2 2.19 Ca-T mg/L C-1 39.8 41.3 36.2 5.18 W-1 32.8 35.4 30.3 2.12 W-2 33.1 35.7 28.3 4.19 W-3 30.6 39.2 22.6 8.32 4.19 W-3 30.6 39.2 22.6 8.32 W-4 2.49 3 | | | | | | | | | 17 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | | | 15 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | METAL | AI-T | µg/L | | | | | | 2 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | 10 | | | | | | 3 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | | | 4 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | | | | | 3 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | | | | | 3 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | | | | | 4 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | W-5 | | | | | 3 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | Ca-T | mg/L | | | | | | 2 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | 9 | | | | | | 3 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | | | | | 4 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | | | | | 3 |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | | | | | 3 |
| W-5 37.5 39.6 35.9 1.90 Fe-T µg/L C-1 2,425 4,430 420 2,835 C-2 1,643 2,110 1,030 555 W-1 1,025 1,430 681 387 W-2 576 971 290 353 | | | | | | | | | 4 |
| Fe-Tμg/LC-12,4254,4304202,835C-21,6432,1101,030555W-11,0251,430681387W-2576971290353 | | | | | | | | | 3 |
| C-2 1,643 2,110 1,030 555 W-1 1,025 1,430 681 387 W-2 576 971 290 353 | | Fe-T | µg/L | | | | | | 2 |
| W-11,0251,430681387W-2576971290353 | | | 1.37 - | | | | | | 3 |
| W-2 576 971 290 353 | | | | | | | | | 4 |
| | | | | | | | | | 3 |
| W-3 166 192 144 24.2 | | | | | | | | | 3 |
| W-4 522 833 165 301 | | | | | | | | | 4 |
| W-5 330 504 217 153 | | | | | | | | | 3 |

Note: Statistics calculated using half the detection limit when results reported as below the detection limit



WETLAND SOLUTIONS, INC.



6815 SW Archer Road Gainesville, Florida 32608 (352) 377-2349 FAX (352) 395-6639

July 25, 2007

Serial: LAB-070725 13549

Ron Clarke Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 RE: Lake Hancock Work Order: 0706338

Enclosed are the results of analyses for samples received by the laboratory on June 27, 2007.

All data were determined in accordance with published procedures (EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Rev March 1983; and Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992). Our laboratory is certified by Florida Department of Health (FDH No. E82001).

All results were determined in accordance with NELAP requirements and in accordance with the chain of custody document unless noted in the report case narrative or data report. All data is subject to a degree of uncertainty. For a discussion of laboratory uncertainty, please contact your project manager. This analytical report must be reproduced in its entirety.

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

Sincerety, Hand Bern

Paul Berman Quality Assurance Manager pberman@aellab.com

Advanced Environmental Laboratories

Page 1 of 11

NELAC requires that any value reported be listed as having less certainty if the result is between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ). The levels shown in the table below are the laboratories MDL and LOQ. Any result reported that falls between these two values should be considered to have less certainty.

| Analyte | units | Method | MDL | LOQ |
|--|--------------|-------------------|-------|----------|
| Ammonia | mg/L | EPA 350.1 | 0.009 | 0.0 |
| Chloride | mg/L | EPA 325.2 | 0.12 | |
| Chromium +6 | ug/L | 3500CrB, EPA 7196 | 4.5 | 7. |
| COD | mg/L | EPA 410.4 | 6.2 | 7. |
| Conductivity | uS/cm | EPA 120.1 | 9.2 | 14. |
| Cyanide | mg/L | 335.2, 9010/9014 | 0.002 | 0.00 |
| Fluoride (undistilled) | mg/L | EPA 340.2 | 0.02 | 0.0 |
| Kjeldahl Nitrogen (Alpkem - CuSO4 digestion) | mg/L | EPA 351.2 | 0.08 | 0. |
| Nitrite (Spectrophotometer) | mg/L | EPA 353.3 | 0.004 | 0.00 |
| Nitrite/Nitrate | mg/L | EPA 353.2 | 0.003 | 0.004 |
| Organic Carbon | mg/L | EPA 415.2 | 0.7 | |
| Ortho Phosphorus, Genesys II | mg/L | EPA 365.2 | 0.002 | 0.004 |
| Dissolved Silica | mg/L | EPA 370.1 | 0.05 | |
| Sulfate | mg/L | EPA 375.4 | 0.33 | |
| Total Carbon | mg/L | EPA 415.2 | 0.5 | |
| Total Phosphorus, Spec - Genesys II | mg/L | EPA 365.3 | 0.006 | 0.00 |
| Total Phosphorus, Alpkem | mg/L | EPA 365.1 | 0.002 | 0.00 |
| Turbidity | NTU | EPA 180.1 | 0.03 | 0. |
| Silver | ug/L | EPA 272.2/7761 | 0.1 | 0.10 |
| Tin | ug/L | EPA 282.2/7871 | 1.8 | 3.12 |
| Aluminum | ug/L | EPA 200.7/6010 | 13.9 | 50 |
| Antimony | ug/L | EPA 200.7/6010 | 2.9 | 50 |
| Arsenic | ug/L | EPA 200.7/6010 | 2.3 | 50 |
| Barium | ug/L | EPA 200.7/6010 | 0.2 | 5(|
| Beryllium | ug/L | EPA 200.7/6010 | 0.10 | 50 |
| Boron | ug/L | EPA 200.7/6010 | 1.5 | 50 |
| Cadmium | ug/L | EPA 200.7/6010 | 0.4 | 5(|
| Calcium | mg/L | EPA 200.7/6010 | 0.02 | 0.05 |
| Chromium | ug/L | EPA 200.7/6010 | 0.4 | 5(|
| Cobalt | ug/L | EPA 200.7/6010 | 0.4 | 50 |
| Copper | ug/L | EPA 200.7/6010 | 0.4 | 50 |
| Iron | ug/L | EPA 200.7/6010 | 0.7 | 50 |
| Lead | ug/L | EPA 200.7/6010 | 1.9 | 5(|
| Magnesium | mg/L | EPA 200.7/6010 | 0.014 | 0.05 |
| Manganese | ug/L | EPA 200.7/6010 | 0.15 | 5(|
| Molybdenum | ug/L | EPA 200.7/6010 | 0.7 | 50 |
| Nickel | ug/L | EPA 200.7/6010 | 0.7 | 5(|
| Potassium | mg/L | EPA 200.7/6010 | 0.006 | 0.05 |
| Selenium | ug/L | EPA 200.7/6010 | 2.4 | 50 |
| Sodium | mg/L | EPA 200.7/6010 | 0.065 | 0.1 |
| Strontium | ug/L | EPA 200.7/6010 | 0.065 | 50 |
| Fhallium | ug/L | EPA 200.7/6010 | 3.6 | 50 |
| Fitanium | ug/L ug/L | EPA 200.7/6010 | | |
| Vanadium | ug/L | EPA 200.7/6010 | 0.26 | 50 |
| Zinc | ug/L ug/L | EPA 200.7/6010 | 0.5 | 50 50 |

Serial: LAB-070725 13549

Page 2 of 11

Alicea



Advanced Environmental Laboratories. Inc. 6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

| | ANALYTICAL REPORT FOR SAMPLES | 0//20/07 13:35 |
|--|--|------------------------------------|
| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | Reported: 07/25/07 13:35 |

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| W - 1 | 0706338-01 | Water | 06/26/07 10:50 | 06/27/07 11:15 |
| W - 2 | 0706338-02 | Water | 06/26/07 11:15 | 06/27/07 11:15 |
| W - 3 | 0706338-03 | Water | 06/26/07 11:25 | 06/27/07 11:15 |
| W - 4 | 0706338-04 | Water | 06/26/07 11:30 | 06/27/07 11:15 |
| W - 5 | 0706338-05 | Water | 06/26/07 12:00 | 06/27/07 11:15 |
| Dup | 0706338-06 | Water | 06/26/07 12:00 | 06/27/07 11:15 |



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| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Proj | Project: 1 ject Manager: F | ake Hancock Ron Clarke | ζ. | | | Rep 0 07/25/0 | orted: 7 13:35 |
|--|--------|-------------------------------|---------------------------|----------|---------|----------|-------------------------|-------------------|
| | R | EPORT OF | RESULT | S | | | | |
| | | W - 0706338-01 | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.108 | 0.009 | mg/L | 1 | 7070602 | 07/06/07 | 07/09/07 12:57 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.018 | 0.003 | mg/L | 1 | 7071701 | 07/17/07 | 07/17/07 11:41 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.748 | 0.002 | mg/L | 1 | 7062723 | 06/27/07 | 06/27/07 19:20 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 4.83 | 0.08 | mg/L | 1 | 7070202 | 07/02/07 | 07/05/07 12:20 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 9.43 | 0.24 | mg/L | 3 | 7070302 | 07/03/07 | 07/05/07 12:20 | |
| Total Suspended Solids EPA 160.2 - 100mL | 60.0 | 2.0 | mg/L | 1 | 7062903 | 06/29/07 | 06/29/07 11:44 | |
| | 0 | - W 9706338-01RI | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 2.08 | 0.030 | mg/L | 5 | 7062901 | 07/02/07 | 07/03/07 16:00 | |
| | | W - 1 | 2 | | | | | |
| | | 0706338-02 | (Water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.241 | 0.009 | mg/L | 1 | 7070602 | 07/06/07 | 07/09/07 13:10 | |
| Chlorophyll A Monochromatic SM10200H | 21.4 | 1.1 | mg/m ³ | 1 | 7062713 | 06/27/07 | 07/07/07 15:15 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.023 | 0.003 | mg/L | 1 | 7071701 | 07/17/07 | 07/17/07 11:43 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.212 | 0.002 | mg/L | 1 | 7062723 | 06/27/07 | 06/27/07 19:20 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.82 | 0.08 | mg/L | 1 | 7070202 | 07/02/07 | 07/05/07 12:20 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 5.96 | 0.16 | mg/L | 2 | 7070302 | 07/03/07 | 07/05/07 12:20 | |
| Total Suspended Solids EPA 160.2 - 100mL | 138 | 2.0 | mg/L | 1 | 7062903 | 06/29/07 | 06/29/07 11:44 | |
| | | W - 2 | 2 | | | | | |
| | 0 | 706338-02RF | E1 (Water) | | _ | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 6.54 | 0.090 | mg/L | 15 | 7062901 | 07/02/07 | 07/03/07 16:00 | |

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| 2809 NW 161 Ct Gainesville, FL 32609 | Proje | ect Manager: H | Lake Hancoo Ron Clarke | | | | Repo 07/25/0 | |
|--|-----------------------|--------------------|---------------------------|---------------|------------------|--------------------------|----------------------------|-------|
| | | W - 0706338-03 | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.395 | 0.009 | mg/L | 1 | 7070602 | 07/06/07 | 07/09/07 13:11 | Totes |
| Chlorophyll A Monochromatic SM10200H | 13.1 | 1.1 | mg/m ³ | 1 | 7062713 | 06/27/07 | 07/07/07 15:15 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.019 | 0.003 | mg/L | 1 | 7071701 | 07/17/07 | 07/17/07 11:45 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.787 | 0.002 | mg/L | 1 | 7062723 | 06/27/07 | 06/27/07 19:20 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 4.89 | 0.08 | mg/L | 1 | 7070202 | 07/02/07 | 07/05/07 12:20 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 7.05 | 0.16 | mg/L | 2 | 7070302 | 07/03/07 | 07/05/07 12:20 | |
| Total Suspended Solids EPA 160.2 - 100mL | 36.0 | 2.0 | mg/L | 1 | 7062903 | 06/29/07 | 06/29/07 11:44 | |
| | | W - | 3 | | | | | |
| | 0 | 706338-03RI | E1 (Water |) | | | | |
| Analysis | Desult | Reporting | ¥1. •4 | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | Result 3.16 | Limit | Units | Dilution | Batch | Prepared | Analyzed 07/03/07 16:00 | Notes |
| Total Thosphorus, Total EFA 505.5 (Spec) | 3.10 | 0.030 | mg/L | 5 | 7062901 | 07/02/07 | 07/03/07 16:00 | |
| | | W - 0706338-04 | | | | | | |
| | | | (water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.107 | 0.009 | mg/L | 1 | 7070602 | 07/06/07 | 07/09/07 13:12 | |
| Chlorophyll A Monochromatic SM10200H | 39.7 | 1.1 | mg/m³ | 1 | 7062713 | 06/27/07 | 07/07/07 15:15 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.020 | 0.003 | mg/L | 1 | 7071701 | 07/17/07 | 07/17/07 11:46 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.225 | 0.002 | mg/L | · 1 | 7062723 | 06/27/07 | 06/27/07 19:20 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 4.91 | 0.08 | mg/L | 1 | 7070202 | 07/02/07 | 07/05/07 12:20 | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 9.02 | 0.24 | mg/L | 3 | 7070302 | 07/03/07 | 07/05/07 12:20 | |
| Fotal Suspended Solids EPA 160.2 - 100mL | 50.0 | 2.0 | mg/L | 1 | 7062903 | 06/29/07 | 06/29/07 11:44 | |
| | | W - | 4 | | | | | |
| | 0' | 706338-04RI | E1 (Water) |) | | | | |
| | U | | | | | | | |
| Analycis | | Reporting | Hadda | D 11 | D . () | n · | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Analysis Total Phosphorus, Total EPA 365.3 (Spec) | | | Units mg/L | Dilution 5 | Batch 7062901 | Prepared 07/02/07 | Analyzed 07/03/07 16:00 | Notes |
| Fotal Phosphorus, Total EPA 365.3 (Spec) | Result | Limit | | | | | ····· | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | Result | Limit | | | | | ····· | Notes |



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| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Proj | Project: 1 ect Manager: 1 | Lake Hancoc Ron Clarke | :k | | | Rep 0 07/25/0 | |
|--|--------|------------------------------|---------------------------|----------|---------|----------|-------------------------|-------|
| | | W - | | | | | | |
| | | 0706338-05 | (Water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.212 | 0.009 | mg/L | 1 | 7070602 | 07/06/07 | 07/09/07 13:14 | |
| Chlorophyll A Monochromatic SM10200H | 384 | 1.1 | mg/m³ | 1 | 7062713 | 06/27/07 | 07/07/07 15:15 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.048 | 0.003 | mg/L | 1 | 7071701 | 07/17/07 | 07/17/07 11:47 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.023 | 0.002 | mg/L | 1 | 7062723 | 06/27/07 | 06/27/07 19:20 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 7.69 | 0.16 | mg/L | 2 | 7070202 | 07/02/07 | 07/05/07 12:20 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 16.8 | 0.40 | mg/L | 5 | 7070302 | 07/03/07 | 07/05/07 12:20 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.695 | 0.006 | mg/L | 1 | 7062804 | 06/28/07 | 06/28/07 16:00 | |
| Total Suspended Solids EPA 160.2 - 100mL | 25.0 | 2.0 | mg/L | 1 | 7062903 | 06/29/07 | 06/29/07 11:44 | |
| | | W - | 5 | | | | | |
| | 0 | 706338-05R | |) | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Suspended Solids EPA 160.2 - 100mL | 132 | 2.0 | mg/L | 1 | 7070306 | 07/03/07 | 07/03/07 16:25 | |
| | | Dup | า | | | | | |
| | | 0706338-06 | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.239 | 0.009 | mg/L | 1 | 7070602 | 07/06/07 | 07/09/07 13:16 | Tions |
| Chlorophyll A Monochromatic SM10200H | 228 | 1.1 | mg/m ³ | 1 | 7062713 | 06/27/07 | 07/07/07 15:15 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.044 | 0.003 | mg/L | 1 | 7071701 | 07/17/07 | 07/17/07 11:55 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.051 | 0.002 | mg/L | 1 | 7062723 | 06/27/07 | 06/27/07 19:20 | |
| Fotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 5.87 | 0.16 | mg/L | 2 | 7070202 | 07/02/07 | 07/05/07 12:20 | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 20.0 | 0.40 | mg/L | 5 | 7070302 | 07/03/07 | 07/05/07 12:20 | |
| Fotal Phosphorus, Total EPA 365.3 (Spec) | 0.660 | 0.006 | mg/L | 1 | 7062804 | 06/28/07 | 06/28/07 16:00 | |
| Fotal Suspended Solids EPA 160.2 - 100mL | 158 | 2.0 | mg/L | 1 | 7062903 | 06/29/07 | 06/29/07 11:44 | |
| - | | | - | | | 00/29/01 | | |
| | 0 | Dup 706338-06RI | | 1 | | | | |
| | | Reporting | | | | | | |
| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Fotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 6.06 | 0.16 | mg/L | 2 | 7071105 | 07/11/07 | 07/16/07 12:35 | |



Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609

Project: Lake Hancock

Reported: 07/25/07 13:35

QUALITY CONTROL FOR SAMPLES

Project Manager: Ron Clarke

Wet Chemistry - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|------------|--------------------|-------------------|----------------|------------------|------|----------------|-----|--------------|-------|
| Batch 7062713 = Chlorophyll A Monoc | hromatic | SM102001 | H | | | | | | | |
| Blank (7062713-BLK1) | | | | | | | | | | |
| Chlorophyll A Monochromatic SM10200H | 1.1 U | 1.1 | mg/m ³ | | | · | | | | |
| Duplicate (7062713-DUP1) Source | e: 0706338 | -02 | | | | | | | | |
| Chlorophyll A Monochromatic SM10200H | 18.3 | 1.1 | mg/m ³ | | 21.4 | | | 16 | 20 | |
| Reference (7062713-SRM1) | | | | | | | | | | |
| Chlorophyll A Monochromatic SM10200H | 507 | | mg/m³ | 500 | | 101 | 90-110 | | | |

Solids - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Batch 7062903 = Total Suspended Soli | ds EPA 16 | 0.2 - 100mI | | | | | | | | |
| Blank (7062903-BLK1) | | | | | | | | | | |
| Fotal Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Blank (7062903-BLK2) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Blank (7062903-BLK3) | | | | | | | | | | |
| Fotal Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Duplicate (7062903-DUP5) Sour | ce: 0706338- | 05 | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 25.0 | 2.0 | mg/L | | 25.0 | | | 0 | 20 | |
| Reference (7062903-SRM1) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 44.0 | | mg/L | 45.5 | | 97 | 80-120 | | | |
| Batch 7070306 = Total Suspended Soli | ds EPA 16 |).2 - 100mI | | | | | | | | |
| Blank (7070306-BLK1) | | | | | | | | | | |
| Fotal Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Duplicate (7070306-DUP1) Source | ce: 0706338- | 05RE1 | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 132 | 2.0 | mg/L | | 132 | | | 0 | 20 | |
| Reference (7070306-SRM1) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 44.0 | | mg/L | 45.5 | | 97 | 80-120 | | | |

Serial: LAB-070725 13549

Page 7 of 11



Wetlands Solutions Inc.

| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | | Pr Project Mar | - | ke Hancock n Clarke | Σ. | | | | Report 07/25/07 | |
|--|------------------|--------------------|-----------|------------------------|------------------|------|----------------|-----|---------------------------|-------|
| | | | | | | | | | | |
| | | Solids - | - Quality | y Contro | I | | | | | |
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 7070306 = Total Suspende | d Solids EPA 160 |).2 - 100mI | | | | | | | | |
| | | Nutrient | s - Quali | ity Cont | rol | | | | | |
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 7062723 = Soluble Reactiv | e Phosphate EPA | A 365.2 | | | | | | | | |
| Blank (7062723-BLK1) | | | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.002 U | 0.002 | mg/L | | | | | | | |
| Duplicate (7062723-DUP1) | Source: 0706338- | 01 | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.741 | 0.002 | mg/L | | 0.748 | | | 0.9 | 20 | |
| Matrix Spike (7062723-MS1) | Source: 0706338- | 02 | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.465 | | mg/L | 0.250 | 0.207 | 103 | 85-115 | | | |
| Reference (7062723-SRM1) | | | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.676 | | mg/L | 0.610 | | 111 | 80-120 | | | |
| Batch 7062804 = Total Phosphor | us, Total EPA 36 | 5.3 (Spec) | | | | | | | | |
| Blank (7062804-BLK1) | | | | | | | | | | |
| Fotal Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| Duplicate (7062804-DUP2) | Source: 0706338- | 02 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 3.41 | 0.006 | mg/L | | 3.45 | | | 1 | 20 | CUST |
| Matrix Spike (7062804-MS2) | Source: 0706338- | 03 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.92 | 0.006 | mg/L | 0.267 | 1.86 | 22 | 80-120 | | | CUST |
| Reference (7062804-SRM1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.099 | 0.006 | mg/L | 0.108 | | 92 | 0-200 | | | |
| Batch 7062901 = Total Phosphor | us, Total EPA 36 | 5.3 (Spec) | | | | | | | | |
| Blank (7062901-BLK1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| Duplicate (7062901-DUP1) | Source: 0706338- | 02RE1 | | | | | | | | |
| Fotal Phosphorus, Total EPA 365.3 (Spec) | 6.70 | 0.090 | mg/L | | 6.54 | | | 2 | 20 | |
| Duplicate (7062901-DUP2) | Source: 0706338- | 04RE2 | | | | | | | | |
| | 2.35 | 0.090 | mg/L | | 2.35 | | | 0 | 20 | |

Serial: LAB-070725 13549



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | | Project: Lake Hancock Project Manager: Ron Clarke | | | | | | Reported: 07/25/07 13:35 | | |
|---|--------------|--|-----------|----------------|------------------|------|----------------|---------------------------------|---------------------------------------|-------|
| | | Nutrient | s - Quali | ity Cont | rol | | | | | |
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 7062901 = Total Phosphorus, T | fotal EPA 3 | 65.3 (Spec) | | | | | | | | |
| Reference (7062901-SRM1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.104 | 0.006 | mg/L | 0.108 | | 96 | 0-200 | | | |
| Potob 7070202 - Total Kieldobl Nitw | ogen Dissol | und EDA 26 | | | | | | | | |
| Batch 7070202 = Total Kjeldahl Nitro | ogen, Dissoi | ved EPA 33 | 51.2 | | | | | | | |
| Blank (7070202-BLK1) Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.08 U | 0.08 | mg/I | | | | | | | |
| | 0.08 0 | 0.08 | mg/L | | | | | | | |
| LCS (7070202-BS1) Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.92 | 0.08 | mall | 2.00 | | 0(| 00.110 | | | |
| | 1.92 | 0.08 | mg/L | 2.00 | | 96 | 90-110 | | | |
| Duplicate (7070202-DUP2) Sou Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | rce: 0706338 | | Π | | 7 (0 | | | | | |
| Total Kjendani Nillogen, Dissolved EPA 551.2 | 8.15 | 0.16 | mg/L | | 7.69 | | | 6 | 20 | |
| | rce: 0706338 | | | | | | | | · · · · · · · · · · · · · · · · · · · | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 7.83 | 0.16 | mg/L | 1.00 | 5.87 | 196 | 85-115 | | | S-REX |
| Batch 7070302 = Total Kjeldahl Nitro | ogen, Total | EPA 351.2 | | | | | | | | |
| Blank (7070302-BLK1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| LCS (7070302-BS1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 1.95 | 0.08 | mg/L | 2.00 | | 98 | 90-110 | | | |
| Duplicate (7070302-DUP1) Sou | rce: 0706338 | -03 | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 6.65 | 0.16 | mg/L | | 7.05 | | | 6 | 20 | |
| Matrix Spike (7070302-MS1) Sou | rce: 0706338 | .04 | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 9.83 | 0.24 | mg/L | 1.00 | 9.02 | 81 | 80-120 | | | |
| Patab 7070602 - Ammania Tatal FD | A 350 1 | | | | | | | | | |
| Batch 7070602 = Ammonia, Total EP | A 330.1 | | | | | | | | | |
| Blank (7070602-BLK1) Ammonia, Total EPA 350.1 | 0.009 U | 0.009 | mg/L | | | | | | | |
| | | | mg/L | | | | | | | |
| | rce: 0706338 | | /T | | 0.107 | | | | | |
| Ammonia, Total EPA 350.1 | 0.106 | 0.009 | mg/L | | 0.107 | | | 0.9 | 20 | |
| | rce: 0706338 | | | | 0.011 | | | | | |
| Ammonia, Total EPA 350.1 | 0.576 | 0.009 | mg/L | 0.400 | 0.212 | 91 | 80-120 | | | |
| Reference (7070602-SRM1) | | | | | | | - , | | | |
| Ammonia, Total EPA 350.1 | 0.766 | 0.009 | mg/L | 0.815 | | 94 | 90-110 | | | |

Serial: LAB-070725 13549

Page 9 of 11



| Wetlands Solutions Inc. | . | |
|-------------------------|-----------------------------|----------------|
| 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 07/25/07 13:35 |

Nutrients - Quality Control

| | | | • | • | | | | | | |
|--|-----------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 7071105 = Total Kjeldahl Ni | trogen, Dissolv | ved EPA 35 | 51.2 | | | | | | | |
| Blank (7071105-BLK1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| LCS (7071105-BS1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.95 | 0.08 | mg/L | 2.00 | | 98 | 90-110 | | | |
| Duplicate (7071105-DUP1) So | ource: 0706338- | 06RE1 | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | | 0.16 | mg/L | | 6.06 | | | 14 | 20 | |
| Matrix Spike (7071105-MS1) | ource: 0706338- | 06RE1 | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | | 0.16 | mg/L | 2.00 | 6.06 | 148 | 85-115 | | | S-CON |
| Batch 7071701 = Nitrate-Nitrite, To | tal EDA 252 1 | | | | | | | | | |
| | JIAI EFA 555.2 | <u>.</u> | | | | | | | | |
| Blank (7071701-BLK1) | | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.003 U | 0.003 | mg/L | | | | | | | |
| Duplicate (7071701-DUP1) Se | ource: 0706338- | 01 | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.019 | 0.003 | mg/L | | 0.018 | | | 5 | 20 | |
| Matrix Spike (7071701-MS1) | ource: 0706338- | 02 | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.399 | 0.003 | mg/L | 0.400 | 0.023 | 94 | 90-110 | | | |
| Reference (7071701-SRM1) | | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 1.08 | 0.003 | mg/L | 1.06 | | 102 | 90-110 | | | |
| Deference (7071701 SDM2) | | | - | | | | | | | |
| Reference (7071701-SRM2) Nitrate-Nitrite, Total EPA 353.2 | 1.02 | 0.003 | mg/L | 1.00 | | 102 | 0-200 | | | |
| 111110 11110, 10th D11 00012 | 1.02 | 0.005 | mg/L | 1.00 | | 102 | 0-200 | | | |



| 2809 NW | s Solutions Inc. / 161 Ct lle, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | Reported: 07/25/07 13:35 |
|---------|--|--|---------------------------------|
| | | NOTES AND DEFINITIONS | |
| S-REX | Poor matrix spike recovery | ; created reextract. | |
| S-CON | Poor matrix spike recovery | on reextract; results and recoveries confirm. | |
| D-RNG | The difference of the conce laboratory that when the rate | ntrations of the sample and its duplicate is low in comparison to the MDL. It is the general policy of the nge is at this level the sample is not rerun and the data is considered acceptable. | ie |
| CUST | over the curve RE extr | | |
| U | Analyte not detected at or a | bove the method detection limit | |
| I | Analyte not detected above | the practical quantitation limit. | |
| NR | Not Reported | | |
| dry | Sample results reported on | a dry weight basis | |
| RPD | Relative Percent Difference | | |



6815 SW Archer Road Gainesville, Florida 32608 (352) 377-2349 FAX (352) 395-6639

August 14, 2007

Serial: LAB-070814 25638

Ron Clarke Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609

RE: Lake Hancock Work Order: 0707263

Enclosed are the results of analyses for samples received by the laboratory on July 25, 2007.

All data were determined in accordance with published procedures (EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Rev March 1983; and Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992). Our laboratory is certified by Florida Department of Health (FDH No. E82001).

All results were determined in accordance with NELAP requirements and in accordance with the chain of custody document unless noted in the report case narrative or data report. All data is subject to a degree of uncertainty. For a discussion of laboratory uncertainty, please contact your project manager. This analytical report must be reproduced in its entirety.

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

Sincerely,

Paul Berman Quality Assurance Manager pberman@aellab.com

Advanced Environmental Laboratories

Page 1 of 10

NELAC requires that any value reported be listed as having less certainty if the result is between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ). The levels shown in the table below are the laboratories MDL and LOQ. Any result reported that falls between these two values should be considered to have less certainty.

| Analyte | units | Method | MDL | LOQ |
|--|--------------|----------------------------------|-------|-------|
| Ammonia | mg/L | EPA 350.1 | 0.009 | 0.01 |
| Chloride | mg/L | EPA 325.2 | 0.12 | |
| Chromium +6 | ug/L | 3500CrB, EPA 7196 | 4.5 | 7.5 |
| COD | mg/L | EPA 410.4 | 6.2 | 7.8 |
| Conductivity | uS/cm | EPA 120.1 | 9.2 | 14.9 |
| Cyanide | mg/L | 335.2, 9010/9014 | 0.002 | 0.004 |
| Fluoride (undistilled) | mg/L | EPA 340.2 | 0.02 | 0.0 |
| Kjeldahl Nitrogen (Alpkem - CuSO4 digestion) | mg/L | EPA 351.2 | 0.08 | 0. |
| Nitrite (Spectrophotometer) | mg/L | EPA 353.3 | 0.004 | 0.004 |
| Nitrite/Nitrate | mg/L | EPA 353.2 | 0.003 | 0.00 |
| Organic Carbon | mg/L | EPA 415.2 | 0.7 | |
| Ortho Phosphorus, Genesys II | mg/L | EPA 365.2 | 0.002 | 0.004 |
| Dissolved Silica | mg/L | EPA 370.1 | 0.05 | |
| Sulfate | mg/L | EPA 375.4 | 0.33 | |
| Total Carbon | mg/L | EPA 415.2 | 0.5 | |
| Total Phosphorus, Spec - Genesys II | mg/L | EPA 365.3 | 0.006 | 0.00 |
| Total Phosphorus, Alpkem | mg/L | EPA 365.1 | 0.002 | 0.00 |
| Turbidity | NTU | EPA 180.1 | 0.03 | 0. |
| Silver | ug/L | EPA 272.2/7761 | 0.1 | 0.1 |
| Tin | ug/L | EPA 282.2/7871 | 1.8 | 3.1 |
| Aluminum | ug/L | EPA 200.7/6010 | 13.9 | 5 |
| Antimony | ug/L | EPA 200.7/6010 | 2.9 | 5 |
| Arsenic | ug/L | EPA 200.7/6010 | 2.3 | . 5 |
| Barium | ug/L | EPA 200.7/6010 | 0.2 | 5 |
| Beryllium | ug/L | EPA 200.7/6010 | 0.10 | 5 |
| Boron | ug/L | EPA 200.7/6010 | 1.5 | 5 |
| Cadmium | ug/L | EPA 200.7/6010 | 0.4 | 5 |
| Calcium | mg/L | EPA 200.7/6010 | 0.02 | 0.0 |
| Chromium | ug/L | EPA 200.7/6010 | 0.4 | 5 |
| Cobalt | ug/L | EPA 200.7/6010 | 0.4 | 5 |
| Copper | ug/L | EPA 200.7/6010 | 0.4 | 5 |
| Iron | ug/L | EPA 200.7/6010 | 0.7 | 5 |
| Lead | ug/L | EPA 200.7/6010 | 1.9 | 5 |
| Magnesium | mg/L | EPA 200.7/6010 | 0.014 | 0.0 |
| Manganese | ug/L | EPA 200.7/6010 | 0.15 | 5 |
| Molybdenum | ug/L | EPA 200.7/6010 | 0.7 | 5 |
| Nickel | ug/L | EPA 200.7/6010 | 0.7 | 5 |
| Potassium | mg/L | EPA 200.7/6010 | 0.006 | 0.0 |
| Selenium | ug/L | EPA 200.7/6010 | 2.4 | 5 |
| Sodium | mg/L | EPA 200.7/6010 | 0.065 | |
| Strontium | ug/L | EPA 200.7/6010 | 0.19 | 5 |
| Thallium | ug/L ug/L | EPA 200.7/6010 | 3.6 | 5 |
| Titanium | ug/L ug/L | EPA 200.7/6010 | 0.26 | 5 |
| Vanadium | | EPA 200.7/6010 | 0.26 | 5 |
| Zinc | ug/L ug/L | EPA 200.7/6010 EPA 200.7/6010 | 1.65 | 5 |

Serial: LAB-070814 25638

Page 2 of 10



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | Reported: 08/14/07 14:56 |
|--|--|---------------------------------|
| | | |

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| W - 1 | 0707263-01 | Water | 07/24/07 11:05 | 07/25/07 10:11 |
| W - 2 | 0707263-02 | Water | 07/24/07 11:15 | 07/25/07 10:11 |
| W - 3 | 0707263-03 | Water | 07/24/07 11:20 | 07/25/07 10:11 |
| W - 4 | 0707263-04 | Water | 07/24/07 11:25 | 07/25/07 10:11 |
| W - 5 | 0707263-05 | Water | 07/24/07 11:30 | 07/25/07 10:11 |
| Dup | 0707263-06 | Water | 07/24/07 11:00 | 07/25/07 10:11 |



| Gainesville, FL 32609 | Project Manager: Ron Clarke | 08/14/07 14.50 |
|-------------------------|-----------------------------|------------------------------------|
| 2809 NW 161 Ct | | Reported: 08/14/07 14:56 |
| Wetlands Solutions Inc. | Project: Lake Hancock | Deported |

REPORT OF RESULTS

W - 1 0707263-01 (Water)

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--|--------|--------------------|-------|----------|---------|----------|----------------|-------|
| Ammonia, Total EPA 350.1 | 0.085 | 0.009 | mg/L | 1 | 7080203 | 08/02/07 | 08/02/07 13:48 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.019 | 0.003 | mg/L | 1 | 7080106 | 08/01/07 | 08/01/07 11:53 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.389 | 0.002 | mg/L | 1 | 7072511 | 07/25/07 | 07/25/07 16:30 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.37 | 0.08 | mg/L | 1 | 7073109 | 07/31/07 | 08/01/07 12:04 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 4.94 | 0.16 | mg/L | 2 | 7073110 | 07/31/07 | 08/01/07 12:04 | |
| Total Suspended Solids EPA 160.2 - 100mL | 27.0 | 2.0 | mg/L | 1 | 7072509 | 07/25/07 | 07/25/07 15:09 | |
| | | | | | | | | |

W - 1 0707263-01RE1 (Water)

| | | Reporting | . | | | | | N T 4 |
|--|--------|-----------|-----------|----------|---------|----------|----------------|--------------|
| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.23 | 0.018 | mg/L | 3 | 7073106 | 07/31/07 | 08/03/07 15:00 | |

W - 2

0707263-02 (Water)

| | Reporting | | | | | | |
|---------|---|--|---|--|--|--|--|
| Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| 0.037 | 0.009 | mg/L | 1 | 7080203 | 08/02/07 | 08/02/07 13:49 | |
| 0.003 I | 0.003 | mg/L | 1 | 7080106 | 08/01/07 | 08/01/07 12:03 | |
| 0.422 | 0.002 | mg/L | 1 | 7072511 | 07/25/07 | 07/25/07 16:30 | |
| 2.81 | 0.08 | mg/L | 1 | 7073109 | 07/31/07 | 08/01/07 12:04 | |
| 4.34 | 0.08 | mg/L | 1 | 7073110 | 07/31/07 | 08/01/07 12:04 | |
| 23.0 | 2.0 | mg/L | 1 | 7072509 | 07/25/07 | 07/25/07 15:09 | |
| | 0.037 0.003 I 0.422 2.81 4.34 | Result Limit 0.037 0.009 0.003 I 0.003 0.422 0.002 2.81 0.08 4.34 0.08 | Result Limit Units 0.037 0.009 mg/L 0.003 I 0.003 mg/L 0.422 0.002 mg/L 2.81 0.08 mg/L 4.34 0.08 mg/L | Result Limit Units Dilution 0.037 0.009 mg/L 1 0.003 I 0.003 mg/L 1 0.422 0.002 mg/L 1 2.81 0.08 mg/L 1 4.34 0.08 mg/L 1 | Result Limit Units Dilution Batch 0.037 0.009 mg/L 1 7080203 0.003 I 0.003 mg/L 1 7080106 0.422 0.002 mg/L 1 7072511 2.81 0.08 mg/L 1 7073109 4.34 0.08 mg/L 1 7073110 | Result Limit Units Dilution Batch Prepared 0.037 0.009 mg/L 1 7080203 08/02/07 0.003 I 0.003 mg/L 1 7080106 08/01/07 0.422 0.002 mg/L 1 7072511 07/25/07 2.81 0.08 mg/L 1 7073109 07/31/07 4.34 0.08 mg/L 1 7073110 07/31/07 | Result Limit Units Dilution Batch Prepared Analyzed 0.037 0.009 mg/L 1 7080203 08/02/07 08/02/07 13:49 0.003 I 0.003 mg/L 1 7080106 08/01/07 08/01/07 12:03 0.422 0.002 mg/L 1 7072511 07/25/07 07/25/07 16:30 2.81 0.08 mg/L 1 7073109 07/31/07 08/01/07 12:04 4.34 0.08 mg/L 1 7073110 07/31/07 08/01/07 12:04 |

W - 2

0707263-02RE1 (Water)

| | | Reporting | | | | | | |
|--|--------|-----------|-------|----------|---------|----------|----------------|-------|
| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 2.06 | 0.030 | mg/L | 5 | 7073106 | 07/31/07 | 08/03/07 15:00 | |



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| | | | | | | | | D11 #E020 |
|--|--------|--------------------|------------|----------|---------|----------|----------------|------------|
| Wetlands Solutions Inc. | | Project: I | ake Hancoc | k | | | | |
| 2809 NW 161 Ct | | • | | ĸ | | | Repor | |
| Gainesville, FL 32609 | Proje | ect Manager: R | on Clarke | | | | 08/14/07 | / 14:56 |
| | | W - 3 | 3 | | | | | |
| | | 0707263-03 | (Water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.175 | 0.009 | mg/L | 1 | 7080203 | 08/02/07 | 08/02/07 13:50 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.017 | 0.003 | mg/L | 1 | 7080106 | 08/01/07 | 08/01/07 11:57 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.720 | 0.002 | mg/L | 1 | 7072511 | 07/25/07 | 07/25/07 16:30 | |
| Fotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.82 | 0.08 | mg/L | 1 | 7073109 | 07/31/07 | 08/01/07 12:04 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 3.11 | 0.08 | mg/L | 1 | 7073110 | 07/31/07 | 08/01/07 12:04 | |
| Total Suspended Solids EPA 160.2 - 100mL | 8.0 I | 2.0 | mg/L | 1 | 7072509 | 07/25/07 | 07/25/07 15:09 | |
| | | W - | 3 | | | | | |
| | 0 | 707263-03RI | E1 (Water |) | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.90 | 0.030 | mg/L | 5 | 7073106 | 07/31/07 | 08/03/07 15:00 | |
| | | | • | | | | | |
| | | W - | | | | | | |
| | | 0707263-04 | (water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.054 | 0.009 | mg/L | 1 | 7080203 | 08/02/07 | 08/02/07 13:51 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.016 | 0.003 | mg/L | 1 | 7080106 | 08/01/07 | 08/01/07 11:58 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.437 | 0.002 | mg/L | 1 | 7072511 | 07/25/07 | 07/25/07 16:30 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.79 | 0.08 | mg/L | 1 | 7073109 | 07/31/07 | 08/01/07 12:04 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 3.93 | 0.08 | mg/L | 1 | 7073110 | 07/31/07 | 08/01/07 12:04 | |
| Total Suspended Solids EPA 160.2 - 100mL | 34.0 | 2.0 | mg/L | 1 | 7072509 | 07/25/07 | 07/25/07 15:09 | |
| 1 | | W - | | | | | | |
| | (| 0707263-04R | | .) | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 4.68 | 0.030 | mg/L | 5 | 7073106 | 07/31/07 | 08/03/07 15:00 | CUST |
| | | | | | | | | |
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| Serial: LAB-070814 25638 | | | | | | | | Page 5 of |
| Jenai, LAD-070014 23030 | | | | | | | | 1 460 5 01 |

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| Vetlands Solutions Inc. 809 NW 161 Ct Gainesville, FL 32609 | Projec | Project: La et Manager: Ro | ke Hancock on Clarke | | | | Report 08/14/07 | |
|---|---------|-------------------------------|-------------------------|----------|---------|------------|---------------------------|-------|
| | | W - 4 | | | | | | |
| | 07 | 07263-04RE | 2 (Water) | | | | | |
| nalysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| otal Phosphorus, Total EPA 365.3 (Spec) | 5.70 | 0.060 | mg/L | 10 | 7080604 | 08/06/07 | 08/06/07 15:00 | |
| | | W - 4 | 5 | | | | | |
| | | 0707263-05 | (Water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.125 | 0.009 | mg/L | 1 | 7080203 | 08/02/07 | 08/02/07 13:52 | |
| Vitrate-Nitrite, Total EPA 353.2 | 0.040 | 0.003 | mg/L | 1 | 7080106 | 08/01/07 | 08/01/07 11:59 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.002 U | 0.002 | mg/L | 1 | 7072511 | 07/25/07 | 07/25/07 16:30 | |
| Fotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 4.48 | 0.08 | mg/L | 1 | 7073109 | 07/31/07 | 08/01/07 12:04 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 14.2 | 0.32 | mg/L | 4 | 7073110 | 07/31/07 | 08/01/07 12:04 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.653 | 0.006 | mg/L | 1 | 7072605 | 07/26/07 | 07/27/07 14:30 | |
| Total Suspended Solids EPA 160.2 - 100mL | 132 | 2.0 | mg/L | 1 | 7072509 | 07/25/07 | 07/25/07 15:09 | |
| | | Du | p . | | | | | |
| | | 0707263-06 | 6 (Water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilutior | n Batch | Prepared | | Notes |
| Ammonia, Total EPA 350.1 | 0.042 | 0.009 | mg/L | 1 | 7080203 | | 00/01/07 12:00 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.023 | 0.003 | mg/L | 1 | 7080106 | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.395 | 0.002 | mg/L | 1 | 7072511 | | 00/01/07 10:04 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.46 | 0.08 | mg/L | 1 | 7073109 | | 00/01/05 10 04 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 5.20 | 0.16 | mg/L | 2 | 7073110 | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 29.0 | 2.0 | mg/L | 1 | 7072509 | 9 07/25/07 | 01125101 15.09 | |
| | | Du | • | | | | | |
| | | 0707263-06H | RE1 (Wate | r) | | | | |

| | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--|--------|--------------------|-------|----------|---------|----------|----------------|-------|
| Analysis Total Phosphorus, Total EPA 365.3 (Spec) | 1.26 | 0.018 | mg/L | 3 | 7073106 | 07/31/07 | 08/03/07 15:00 | |

Page 6 of 10



Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609

Project: Lake Hancock

Reported: 08/14/07 14:56

.

Project Manager: Ron Clarke

QUALITY CONTROL FOR SAMPLES

Solids - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Batch 7072509 = Total Suspended Soli | ids EPA 16 | 0.2 - 100ml | _ | | | | | | | |
| Blank (7072509-BLK1) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Blank (7072509-BLK2) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Reference (7072509-SRM1) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 44.0 | | mg/L | 45.5 | | 97 | 80-120 | | | |

Nutrients - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------------|--------------------|-------|--|------------------|------|----------------|-----|--------------|-------|
| | | | | | | | | | | |
| Batch 7072511 = Soluble Reactive Phe | osphate EP. | A 365.2 | | an a | | | | | | |
| Blank (7072511-BLK1) | | | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.002 U | 0.002 | mg/L | | | | | | | |
| Matrix Spike (7072511-MS1) Sour | ·ce: 0707263 | -01 | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.646 | | mg/L | 0.250 | 0.380 | 106 | 80-120 | | | |
| Reference (7072511-SRM1) | | | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.658 | | mg/L | 0.610 | | 108 | 80-120 | | | |
| Batch 7072605 = Total Phosphorus, T | otal EPA 3 | 65.3 (Spec) | | | | | - | | | |
| Blank (7072605-BLK1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| Reference (7072605-SRM1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.097 | 0.006 | mg/L | 0.108 | | 90 | 0-200 | | | |
| Batch 7073106 = Total Phosphorus, T | otal EPA 3 | 65.3 (Spec) | | | | | | | | |
| Blank (7073106-BLK1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| Duplicate (7073106-DUP1) Sou | rce: 0707263 | -01RE1 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.21 | 0.018 | mg/L | | 1.23 | | | 2 | 20 | |
| | | | | | | | | | | |



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| Wetlands Solutions Inc. 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
|---|-----------------------------|----------------|
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 08/14/07 14:56 |

Nutrients - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|------------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Batch 7073106 = Total Phosphorus | . Total EPA 36 | 5.3 (Spec) | | | | | | | | |
| | ource: 0707263- | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.98 | 0.030 | mg/L | | 2.06 | | | 4 | 20 | |
| Duplicate (7073106-DUP3) Solution | ource: 0707263- | 03RE1 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 2.04 | 0.030 | mg/L | | 1.90 | | | 7 | 20 | |
| Duplicate (7073106-DUP4) S | ource: 0707263- | 04RE1 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 4.98 | 0.030 | mg/L | | 4.68 | | | 6 | 20 | CUST |
| Duplicate (7073106-DUP5) S | ource: 0707263- | 06RE1 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.24 | 0.018 | mg/L | | 1.26 | | | 2 | 20 | |
| Matrix Spike (7073106-MS1) S | ource: 0707263- | 03RE1 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 3.42 | 0.031 | mg/L | 1.33 | 1.90 | 114 | 80-120 | | | |
| Reference (7073106-SRM1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.103 | 0.006 | mg/L | 0.108 | | 95 | 0-200 | | | |
| | | | =1 0 | | | | | | | |
| Batch 7073109 = Total Kjeldahl Ni | trogen, Dissolv | ed EPA 5: | 51.2 | | | | | | | |
| Blank (7073109-BLK1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2 0.08 U | 0.08 | mg/L | | | | | | | |
| LCS (7073109-BS1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2 1.96 | 0.08 | mg/L | 2.00 | | 98 | 90-110 | | | |
| Batch 7073110 = Total Kjeldahl Ni | itrogen, Total] | EPA 351.2 | | | | | | | | |
| Blank (7073110-BLK1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| Blank (7073110-BLK2) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| LCS (7073110-BS1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 1.88 | 0.08 | mg/L | 2.00 | | 94 | 90-110 | | | |
| LCS (7073110-BS2) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 2.12 | 0.08 | mg/L | 2.00 | | 106 | 90-110 | | | |
| Duplicate (7073110-DUP3) S | Source: 0707263 | -01 | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 5.04 | 0.16 | mg/L | | 4.94 | | | 2 | 20 | |
| Matrix Spike (7073110-MS3) | Source: 0707263 | -02 | | | | | | | | |
| main spike (1013110-1103) | ource. 0/0/203 | -V# | | | | | | | | |

Serial: LAB-070814 25638



| | Nutrients - Quality Control | |
|---|-----------------------------|----------------|
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 08/14/07 14:56 |
| Wetlands Solutions Inc. 2809 NW 161 Ct | Project: Lake Hancock | Reported: |

| Nutrients - Quanty Control | | | | | | | | | | |
|--|-------------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 7073110 = Total Kjeldahl | Nitrogen, Total | EPA 351.2 | | | | | | | | |
| Matrix Spike (7073110-MS3) | Source: 0707263- | -02 | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 5.20 | 0.16 | mg/L | 1.00 | 4.34 | 86 | 80-120 | | | |
| Batch 7080106 = Nitrate-Nitrite | , Total EPA 353.2 | 2 | | | | | | | | |
| Blank (7080106-BLK1) | | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.003 U | 0.003 | mg/L | | | | | | | |
| Duplicate (7080106-DUP1) | Source: 0707263 | -01 | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.018 | 0.003 | mg/L | | 0.019 | | | 5 | 20 | |
| Matrix Spike (7080106-MS1) | Source: 0707263 | -02 | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.425 | 0.003 | mg/L | 0.400 | 0.003 | 106 | 90-110 | | | |
| Reference (7080106-SRM1) | | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 1.13 | 0.003 | mg/L | 1.06 | | 107 | 90-110 | | | |
| Reference (7080106-SRM2) | | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 1.05 | 0.003 | mg/L | 1.00 | | 105 | 0-200 | | | |
| D-4-k 7090202 - Ammonia T-4 | -1 FDA 250 1 | | | | | | | | | |
| Batch 7080203 = Ammonia, Tota | ai EPA 350.1 | | | | | | | | | |
| Blank (7080203-BLK1) | | | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.009 U | 0.009 | mg/L | | | | | | | |
| Reference (7080203-SRM1) | | | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.779 | 0.009 | mg/L | 0.815 | | 96 | 90-110 | | | |
| Batch 7080604 = Total Phospho | rus, Total EPA 3 | 65.3 (Spec) |) | | | | | | | |
| Blank (7080604-BLK1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) |) 0.006 U | 0.006 | mg/L | | | | | | | |
| Duplicate (7080604-DUP1) | Source: 0707263 | -04RE2 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec | | 0.060 | mg/L | | 5.70 | | | 5 | 20 | |
| Reference (7080604-SRM1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) |) 0.106 | 0.006 | mg/L | 0.108 | | 98 | 0-200 | | | |
| | | | | | | | | | | |



6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | | Project: Lake Hancock Project Manager: Ron Clarke | Reported: 08/14/07 14:56 |
|--|--|---|---------------------------------------|
| | | NOTES AND DEFINITIONS | · · · · · · · · · · · · · · · · · · · |
| D-RNG | | ions of the sample and its duplicate is low in comparison to the MDL. It is the g s at this level the sample is not rerun and the data is considered acceptable. | general policy of the |

CUST over the curve RE extr 10X

- U Analyte not detected at or above the method detection limit
- I Analyte not detected above the practical quantitation limit.
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



September 24, 2007

Ron Clarke Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 RE: Lake Hancock Work Order: 0708366

Enclosed are the results of analyses for samples received by the laboratory on August 30, 2007.

All data were determined in accordance with published procedures (EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Rev March 1983; and Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992). Our laboratory is certified by Florida Department of Health (FDH No. E82001).

All results were determined in accordance with NELAP requirements and in accordance with the chain of custody document unless noted in the report case narrative or data report. All data is subject to a degree of uncertainty. For a discussion of laboratory uncertainty, please contact your project manager. This analytical report must be reproduced in its entirety.

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

Sincerely,

Ben

Paul Berman Quality Assurance Manager pberman@aellab.com

Serial: LAB-070924 52818

Advanced Environmental Laboratories

Page 1 of 12

NELAC requires that any value reported be listed as having less certainty if the result is between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ). The levels shown in the table below are the laboratories MDL and LOQ. Any result reported that falls between these two values should be considered to have less certainty.

| Analyte | units | Meth | nod MDL | LOQ |
|--|-------|------------------|---------|------|
| Ammonia | mg/L | EPA 350.1 | 0.009 | 0.0 |
| Chloride | mg/L | EPA 325.2 | 0.12 | |
| Chromium +6 | ug/L | 3500CrB, EPA 71 | 196 4.5 | 7. |
| COD | mg/L | EPA 410.4 | 6.2 | 7. |
| Conductivity | uS/cm | EPA 120.1 | 9.2 | 14. |
| Cyanide | mg/L | 335.2, 9010/9014 | 0.002 | 0.00 |
| Fluoride (undistilled) | mg/L | EPA 340.2 | 0.02 | 0.0 |
| Kjeldahl Nitrogen (Alpkem - CuSO4 digestion) | mg/L | EPA 351.2 | 0.08 | 0. |
| Nitrite (Spectrophotometer) | mg/L | EPA 353.3 | 0.004 | 0.00 |
| Nitrite/Nitrate | mg/L | EPA 353.2 | 0.003 | 0.00 |
| Organic Carbon | mg/L | EPA 415.2 | 0.7 | |
| Ortho Phosphorus, Genesys II | mg/L | EPA 365.2 | 0.002 | 0.00 |
| Dissolved Silica | mg/L | EPA 370.1 | 0.05 | |
| Sulfate | mg/L | EPA 375.4 | 0.33 | |
| Total Carbon | mg/L | EPA 415.2 | 0.5 | |
| Total Phosphorus, Spec - Genesys II | mg/L | EPA 365.3 | 0.006 | 0.00 |
| Total Phosphorus, Alpkem | mg/L | EPA 365.1 | 0.002 | 0.00 |
| Turbidity | NTU | EPA 180.1 | 0.03 | 0. |
| Silver | ug/L | EPA 272.2/7761 | 0.1 | 0.1 |
| Tin | ug/L | EPA 282.2/7871 | 1.8 | 3.1 |
| Aluminum | ug/L | EPA 200.7/6010 | 13.9 | 5 |
| Antimony | ug/L | EPA 200.7/6010 | 2.9 | 50 |
| Arsenic | ug/L | EPA 200.7/6010 | 2.3 | 50 |
| Barium | ug/L | EPA 200.7/6010 | 0.2 | 50 |
| Beryllium | ug/L | EPA 200.7/6010 | 0.10 | 50 |
| Boron | ug/L | EPA 200.7/6010 | 1.5 | 50 |
| Cadmium | ug/L | EPA 200.7/6010 | 0.4 | 50 |
| Calcium | mg/L | EPA 200.7/6010 | 0.02 | 0.0: |
| Chromium | ug/L | EPA 200.7/6010 | 0.4 | 50 |
| Cobalt | ug/L | EPA 200.7/6010 | 0.4 | 50 |
| Copper | ug/L | EPA 200.7/6010 | 0.4 | 5(|
| Iron | ug/L | EPA 200.7/6010 | 0.7 | 50 |
| Lead | ug/L | EPA 200.7/6010 | 1.9 | 5(|
| Magnesium | mg/L | EPA 200.7/6010 | 0.014 | 0.03 |
| Manganese | ug/L | EPA 200.7/6010 | 0.15 | 51 |
| Molybdenum | ug/L | EPA 200.7/6010 | 0.7 | 50 |
| Nickel | ug/L | EPA 200.7/6010 | 0.7 | 5 |
| Potassium | mg/L | EPA 200.7/6010 | 0.006 | 0.0: |
| Selenium | ug/L | EPA 200.7/6010 | 2.4 | 5(|
| Sodium | mg/L | EPA 200.7/6010 | 0.065 | 0. |
| Strontium | ug/L | EPA 200.7/6010 | 0.19 | 51 |
| Thallium | ug/L | EPA 200.7/6010 | 3.6 | 5 |
| Titanium | ug/L | EPA 200.7/6010 | 0.26 | 50 |
| Vanadium | ug/L | EPA 200.7/6010 | 0.5 | 5(|
| Zinc | ug/L | EPA 200.7/6010 | 1.65 | 5(|

Serial: LAB-070924 52819

Page 2 of 12

| Idvanced Environmental Laboratories, Inc. | | 6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001 |
|--|--|---|
| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | Reported: 09/24/07 17:27 |

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ANALYTICAL REPORT FOR SAMPLES

| 08/30/07 10:04 | |
|----------------|----------------|
| | 08/30/07 16:50 |
| 08/30/07 10:09 | 08/30/07 16:50 |
| 08/30/07 10:26 | 08/30/07 16:50 |
| 08/30/07 10:36 | 08/30/07 16:50 |
| 08/30/07 11:03 | 08/30/07 16:50 |
| 08/30/07 09:45 | 08/30/07 16:50 |
| 08/30/07 11:03 | 08/30/07 16:50 |
| | 08/30/07 09:45 |



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Proj | Project: L ect Manager: R | .ake Hancock Ron Clarke | | | | Reported: 09/24/07 17:27 | | |
|--|---------|------------------------------|----------------------------|----------|---------|----------|--|--|--|
| | R | EPORT OF | RESULT | S | | | ************************************** | ***** | |
| | | W - 0708366-01 | | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes | |
| Ammonia, Total EPA 350.1 | 0.053 | 0.009 | mg/L | 1 | 7090301 | 09/03/07 | 09/04/07 13:25 | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.003 U | 0.003 | mg/L | 1 | 7090616 | 09/06/07 | 09/07/07 14:45 | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.311 | 0.002 | mg/L | 1 | 7083107 | 08/31/07 | 08/31/07 14:45 | CUSTa | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.59 | 0.08 | mg/L | 1 | 7090505 | 09/07/07 | 09/11/07 16:54 | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 3.09 | 0.08 | mg/L | 1 | 7090504 | 09/06/07 | 09/07/07 15:35 | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.871 | 0.006 | mg/L | 1 | 7090407 | 09/04/07 | 09/05/07 14:19 | | |
| Total Suspended Solids EPA 160.2 - 100mL | 8.0 I | 2.0 | mg/L | 1 | 7090501 | 09/05/07 | 09/05/07 08:48 | | |
| | 0 | W - 708366-01RI | | | | | | ************************************** | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.987 | 0.012 | mg/L | 2 | 7091007 | 09/10/07 | 09/11/07 13:33 | | |
| | | W - 0708366-02 | | | | | | 267.453.0151.017.142.0001-143.0171-140 | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes | |
| Ammonia, Total EPA 350.1 | 0.047 | 0.009 | mg/L | . 1 | 7090301 | 09/03/07 | 09/04/07 13:25 | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.008 1 | 0.003 | mg/L | 1 | 7090712 | 09/07/07 | 09/08/07 11:20 | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.291 | 0.002 | mg/L | 1 | 7083107 | 08/31/07 | 08/31/07 14:45 | CUSTa | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.56 | 0.08 | mg/L | 1 | 7090505 | 09/07/07 | 09/11/07 16:54 | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 2.34 | 0.08 | mg/L | 1 | 7090504 | 09/06/07 | 09/07/07 15:35 | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.777 | 0.006 | mg/L | 1 | 7090407 | 09/04/07 | 09/05/07 14:19 | | |
| · · · · · · · · · · · · · · · · · · · | | 2.0 | mg/L | 1 | 7090501 | 09/05/07 | 09/05/07 08:48 | | |
| Total Suspended Solids EPA 160.2 - 100mL | 9.0 | 2.0 | mg/L | | | | | | |

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--|--------|--------------------|-------|----------|---------|----------|----------------|-------|
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.789 | 0.012 | mg/L | 2 | 7091007 | 09/10/07 | 09/11/07 13:33 | |

Page 4 of 12

| b. | Advanced | | |
|----|--------------|---------------|------|
| 7 | [normanental | Laboratories, | inc. |

| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Proje | Project: Lake Hancock Project Manager: Ron Clarke | | | | | Repo 09/24/0 | |
|---|---|--|---|---|--|--|--|--|
| | | W - 0708366-03 | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.034 I | 0.009 | mg/L | 1 | 7090301 | 09/03/07 | 09/04/07 13:27 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.008 1 | 0.003 | mg/L | 1 | 7090712 | 09/07/07 | 09/08/07 11:10 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.343 | 0.002 | mg/L | 1 | 7083107 | 08/31/07 | 08/31/07 14:45 | CUSTa |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.41 | 0.08 | mg/L | 1 | 7090505 | 09/07/07 | 09/11/07 16:54 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 1.53 | 0.08 | mg/L | 1 | 7090504 | 09/06/07 | 09/07/07 15:35 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.644 | 0.006 | mg/L | 1 | 7090407 | 09/04/07 | 09/05/07 14:19 | |
| Total Suspended Solids EPA 160.2 - 100mL | 6.0 I | 2.0 | mg/L | 1 | 7090501 | 09/05/07 | 09/05/07 08:48 | |
| | | W - | 3 | | | | | |
| | 0 | 708366-03RI | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.671 | 0.012 | mg/L | 2 | 7091007 | 09/10/07 | 09/11/07 13:33 | |
| | | 0/0/1 | | ** | | | | |
| | | | | | | | | |
| | | W - 0708366-04 | 4 | | | | | |
| | | W - 0708366-04 Reporting | 4 (Water) | | 2010/01/14/16/01/01/01/01/01/01/01/01/01/01/01/01/01/ | | | <u>versovani na sina se </u> |
| | Result | W - 0708366-04 Reporting Limit | 4 | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | Result 0.041 | W - 0708366-04 Reporting Limit 0.009 | 4 (Water) Units mg/L | Dilution 1 | 7090301 | Prepared 09/03/07 | 09/04/07 13:38 | Notes |
| Ammonia, Total EPA 350.1 Nitrate-Nitrite, Total EPA 353.2 | Result 0.041 0.003 U | W - 0708366-04 Reporting Limit 0.009 0.003 | 4 (Water) Units mg/L mg/L | Dilution 1 1 | 7090301 7090712 | Prepared 09/03/07 09/07/07 | 09/04/07 13:38 09/08/07 11:12 | 2017 2010 000 444 000 V 1040 2020 C 1025 20 |
| Ammonia, Total EPA 350.1 Nitrate-Nitrite, Total EPA 353.2 Soluble Reactive Phosphate EPA 365.2 | Result 0.041 0.003 U 0.468 | W - 0708366-04 Reporting Limit 0.009 0.003 0.002 | 4 (Water) Units mg/L mg/L mg/L | Dilution 1 1 1 | 7090301 7090712 7083107 | Prepared 09/03/07 09/07/07 08/31/07 | 09/04/07 13:38 09/08/07 11:12 08/31/07 14:45 | Notes CUSTa |
| Ammonia, Total EPA 350.1 Nitrate-Nitrite, Total EPA 353.2 Soluble Reactive Phosphate EPA 365.2 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | Result 0.041 0.003 U 0.468 1.43 | W - 0708366-04 Reporting Limit 0.009 0.003 0.002 0.08 | 4 (Water) Units mg/L mg/L mg/L mg/L | Dilution I I I I | 7090301 7090712 7083107 7090505 | Prepared 09/03/07 09/07/07 08/31/07 09/07/07 | 09/04/07 13:38 09/08/07 11:12 08/31/07 14:45 09/11/07 16:54 | 2017 2013000 444 No. V 946 D200 (V 2020) |
| Ammonia, Total EPA 350.1 Nitrate-Nitrite, Total EPA 353.2 Soluble Reactive Phosphate EPA 365.2 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 Total Kjeldahl Nitrogen, Total EPA 351.2 | Result 0.041 0.003 U 0.468 1.43 1.70 | W - 0708366-04 Reporting Limit 0.009 0.003 0.003 0.002 0.08 0.08 | 4 (Water) Units mg/L mg/L mg/L mg/L mg/L | Dilution 1 1 1 1 1 1 | 7090301 7090712 7083107 7090505 7090504 | Prepared 09/03/07 09/07/07 08/31/07 09/07/07 09/06/07 | 09/04/07 13:38 09/08/07 11:12 08/31/07 14:45 09/11/07 16:54 09/07/07 15:35 | 2017 2010 000 444 000 V 1040 2020 C 1025 20 |
| Ammonia, Total EPA 350.1 Nitrate-Nitrite, Total EPA 353.2 Soluble Reactive Phosphate EPA 365.2 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 Total Kjeldahl Nitrogen, Total EPA 351.2 Total Phosphorus, Total EPA 365.3 (Spec) | Result 0.041 0.003 U 0.468 1.43 1.70 1.58 | W - 0708366-04 Reporting Limit 0.009 0.003 0.002 0.08 0.08 0.008 0.006 | 4 (Water) Units mg/L mg/L mg/L mg/L mg/L mg/L | Dilution 1 1 1 1 1 1 1 | 7090301 7090712 7083107 7090505 7090504 7090407 | Prepared 09/03/07 09/07/07 08/31/07 09/07/07 09/06/07 09/04/07 | 09/04/07 13:38 09/08/07 11:12 08/31/07 14:45 09/11/07 16:54 09/07/07 15:35 09/05/07 14:19 | 2017 2013000 444 No. V 946 D200 (V 2020) |
| Ammonia, Total EPA 350.1 Nitrate-Nitrite, Total EPA 353.2 Soluble Reactive Phosphate EPA 365.2 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 Total Kjeldahl Nitrogen, Total EPA 351.2 Total Phosphorus, Total EPA 365.3 (Spee) | Result 0.041 0.003 U 0.468 1.43 1.70 | W - 0708366-04 Reporting Limit 0.009 0.003 0.003 0.002 0.08 0.008 0.008 0.008 0.006 2.0 | 4 (Water) Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L | Dilution 1 1 1 1 1 1 | 7090301 7090712 7083107 7090505 7090504 | Prepared 09/03/07 09/07/07 08/31/07 09/07/07 09/06/07 | 09/04/07 13:38 09/08/07 11:12 08/31/07 14:45 09/11/07 16:54 09/07/07 15:35 | |
| Ammonia, Total EPA 350.1 Nitrate-Nitrite, Total EPA 353.2 Soluble Reactive Phosphate EPA 365.2 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 Total Kjeldahl Nitrogen, Total EPA 351.2 Total Phosphorus, Total EPA 365.3 (Spee) | Result 0.041 0.003 U 0.468 1.43 1.70 1.58 | W - 0708366-04 Reporting Limit 0.009 0.003 0.002 0.08 0.08 0.008 0.006 | 4 (Water) Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L | Dilution 1 1 1 1 1 1 1 | 7090301 7090712 7083107 7090505 7090504 7090407 | Prepared 09/03/07 09/07/07 08/31/07 09/07/07 09/06/07 09/04/07 | 09/04/07 13:38 09/08/07 11:12 08/31/07 14:45 09/11/07 16:54 09/07/07 15:35 09/05/07 14:19 | 2017 2010 000 444 000 V 1040 2020 C 1025 20 |
| Ammonia, Total EPA 350.1 Nitrate-Nitrite, Total EPA 353.2 Soluble Reactive Phosphate EPA 365.2 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 Total Kjeldahl Nitrogen, Total EPA 351.2 Total Phosphorus, Total EPA 365.3 (Spee) | Result 0.041 0.003 U 0.468 1.43 1.70 1.58 26.0 | W - 0708366-04 Reporting Limit 0.009 0.003 0.003 0.002 0.08 0.008 0.008 0.008 0.006 2.0 | 4 (Water) Units mg/L mg/L mg/L mg/L mg/L mg/L | Dilution 1 1 1 1 1 1 1 | 7090301 7090712 7083107 7090505 7090504 7090407 | Prepared 09/03/07 09/07/07 08/31/07 09/07/07 09/06/07 09/04/07 | 09/04/07 13:38 09/08/07 11:12 08/31/07 14:45 09/11/07 16:54 09/07/07 15:35 09/05/07 14:19 | 977 9613900 969 900 - 1496 32200 - 1629 1 |
| Analysis Ammonia, Total EPA 350.1 Nitrate-Nitrite, Total EPA 353.2 Soluble Reactive Phosphate EPA 365.2 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 Total Kjeldahl Nitrogen, Total EPA 365.3 (Spec) Total Phosphorus, Total EPA 365.3 (Spec) Total Suspended Solids EPA 160.2 - 100mL | Result 0.041 0.003 U 0.468 1.43 1.70 1.58 26.0 | W - 0708366-04 Reporting Limit 0.009 0.003 0.002 0.08 0.008 0.008 0.006 2.0 W - | 4 (Water) Units mg/L mg/L mg/L mg/L mg/L mg/L | Dilution 1 1 1 1 1 1 1 | 7090301 7090712 7083107 7090505 7090504 7090407 | Prepared 09/03/07 09/07/07 08/31/07 09/07/07 09/06/07 09/04/07 | 09/04/07 13:38 09/08/07 11:12 08/31/07 14:45 09/11/07 16:54 09/07/07 15:35 09/05/07 14:19 | 977 9613900 969 900 - 1496 32200 - 1629 1 |

Page 5 of 12

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| Environmental | Laboratories. | Inc. |

| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Proj | Project: L ect Manager: F | .ake Hancock Ron Clarke | | | | Rep 0 09/24/0 | rted: 7 17:27 |
|--|--|------------------------------|----------------------------|--|---------|----------|-------------------------|------------------|
| | 20111111111111111111111111111111111111 | W - | 4 | anana a fananan an | | | | |
| | (|)708366-04RI | E2 (Water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.869 | 0.012 | mg/L | 2 | 7091208 | 09/12/07 | 09/13/07 18:19 | |
| | | W - | 5 | | | | | |
| | | 0708366-05 | (Water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.186 | 0.009 | mg/L | 1 | 7090301 | 09/03/07 | 09/04/07 13:48 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.076 | 0.003 | mg/L | . 1 | 7090712 | 09/07/07 | 09/08/07 11:13 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.014 | 0.002 | mg/L | 1 | 7083107 | 08/31/07 | 08/31/07 14:45 | CUSTa |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 7.01 | 0.16 | mg/L | 2 | 7090505 | 09/07/07 | 09/11/07 16:54 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 13.6 | 0.24 | mg/L | 3 | 7090504 | 09/06/07 | 09/07/07 15:35 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.393 | 0.006 | mg/L | 1 | 7090407 | 09/04/07 | 09/05/07 14:19 | |
| Total Suspended Solids EPA 160.2 - 100mL | 90.0 | 2.0 | mg/L | 1 | 7090501 | 09/05/07 | 09/05/07 08:48 | |
| | | C - 2 | 2 | | | | | |
| | | 0708366-06 | (Water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.124 | 0.009 | mg/L | 1 | 7090301 | 09/03/07 | 09/04/07 13:40 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.035 | 0.003 | mg/L | 1 | 7090712 | 09/07/07 | 09/08/07 11:14 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.014 | 0.002 | mg/L | 1 | 7083107 | 08/31/07 | 08/31/07 14:45 | CUSTa |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.83 | 0.08 | mg/L | 1 | 7090505 | 09/07/07 | 09/11/07 16:54 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 8.79 | 0.24 | mg/L | 3 | 7090504 | 09/06/07 | 09/07/07 15:35 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.578 | 0.006 | mg/L | 1 | 7090407 | 09/04/07 | 09/05/07 14:19 | |
| | 41.8 | 2.0 | mg/L | 1 | 7090501 | 09/05/07 | 09/05/07 08:48 | |

| þ | Advanced Environmental | Laboratories. | Inc. |
|---|---------------------------|-----------------------------|----------|
| 2 | ****** | NUMBER OF STREET AND STREET | enoity (|

| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke DUP 0708366-07 (Water) | | | | | **** | • | orted: 07 17:27 | |
|--|---|--------------------|-------|----------|---------|----------|----------------|--------------------|--|
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes | |
| Ammonia, Total EPA 350.1 | 0.197 | 0.009 | mg/L | 1 | 7090301 | 09/03/07 | 09/04/07 13:41 | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.073 | 0.003 | mg/L | 1 | 7090712 | 09/07/07 | 09/08/07 11:15 | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.013 | 0.002 | mg/L | 1 | 7083107 | 08/31/07 | 08/31/07 14:45 | CUSTa | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 7.32 | 0.24 | mg/L | 3 | 7090505 | 09/07/07 | 09/11/07 16:54 | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 12.9 | 0.24 | mg/L | 3 | 7090504 | 09/06/07 | 09/07/07 15:35 | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.377 | 0.006 | mg/L | 1 | 7090407 | 09/04/07 | 09/05/07 14:19 | | |
| Total Suspended Solids EPA 160.2 - 100mL | 126 | 2.0 | mg/L | 1 | 7090501 | 09/05/07 | 09/05/07 08:48 | | |



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | | P Project Ma | roject: Lak nager: Roi | | | | | | Repor 09/24/07 | |
|--|--|--------------------|---------------------------|---------------------------------------|------------------|--|--|--|--------------------------|-----------|
| | QUA | LITY CO | NTROL | FOR SA | AMPLE | S | | | | |
| | | Solids | - Quality | v Contro | | | | | | |
| Angleta | Result | Reporting Limit | | Spike | Source | 0/DEC | %REC | DDD | RPD | |
| Analyte | ······································ | | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 7090501 = Total Suspende | d Solids EPA 16 | <u>0.2 - 100ml</u> | L | | | | | alme tenzioazzarrenen esezenen | | |
| 3lank (7090501-BLK1) Fotal Suspended Solids EPA 160.2 - 100m | L 2.0 U | 2.0 | mg/L | | | 1/1 an 1 /1 an 1 a | | | | |
| | | 2.0 | mg/L | | | | | | | |
| Blank (7090501-BLK2) Fotal Suspended Solids EPA 160.2 - 100m | L 2.0 U | 2.0 | mg/L | | | | | | | |
| Reference (7090501-SRM1) | | | U | | | | | | | |
| Fotal Suspended Solids EPA 160.2 - 100m | L 80.0 | | mg/L | 76.3 | | 105 | 80-120 | | | |
| | | | | | | | | | | |
| | | Nutrient | s - Quali | ity Cont | rol | | | | | |
| | | | - | , , , , , , , , , , , , , , , , , , , | (1 | | 0(000 | | 000 | |
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 7083107 = Soluble Reactiv | e Phosphate FP | A 365 2 | | | ********** | | | 9993 84999 6999 9999 9999 9999 9999 9999 999 | | ********* |
| Blank (7083107-BLK1) | | | | | | ************************************** | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.006 | 0.002 | mg/L | | | | | | | CUST |
| Duplicate (7083107-DUP1) | Source: 0708366- | -01 | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.314 | 0.002 | mg/L | | 0.311 | | | 1 | 20 | CUSTa |
| Matrix Spike (7083107-MS1) | Source: 0708366- | -02 | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.533 | | mg/L | 0.250 | 0.284 | 100 | 85-115 | | | CUSTa |
| Reference (7083107-SRM1) | | | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.644 | | mg/L | 0.610 | | 106 | 80-120 | | | |
| Batch 7090301 = Ammonia, Tota | I EPA 350.1 | | | | | | den se de se se se de la contra d'arrite a sé a se | | | |
| Blank (7090301-BLK1) | | | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.009 U | 0.009 | mg/L | | | | | | | |
| Duplicate (7090301-DUP4) | Source: 0708366- | | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.045 | 0.009 | mg/L | | 0.047 | | | 4 | 20 | |
| Matrix Spike (7090301-MS4) | Source: 0708366- | | | · · · · · · · · · · · · · · · · · · · | 0.00: | ~ · | 00.100 | | | |
| Ammonia, Total EPA 350.1 | 0410 | 0.009 | mg/L | 0.400 | 0.034 | 94 | 80-120 | | | |
| Reference (7090301-SRM1) | 01/07 | 0.000 | /7 | 0.425 | | 00 | 0.000 | | | |
| Ammonia, Total EPA 350.1 | 0.627 | 0.009 | mg/L | 0.635 | | 99 | 0-200 | | | |
| | | | | | | | | | | |
| Serial: LAB-070924 52819 | | | | | | | | | | Page 8 of |
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| | | | | | | | | | | |

| fidvanced Environmental Laboratories. | loc. | | | | | | NE | | Gainesvill 352.377. 352.39 | ⁷ Archer Rd e, FL 32608 2349 Phone 95.6639 Fax DH #E82001 |
|---|---------|---|--------------|--|------------------|--|---|---|----------------------------------|--|
| Wetlands Solutions Inc. 2809 NW 161 Ct | | Pi | roject: Lake | e Hancock | | | | | Damont | |
| Gainesville, FL 32609 | | Project Ma | nager: Ron | Clarke | | | | | Report 09/24/07 | 1 |
| | | ът , • , | A | | | internet of the Component | | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | | 4197097070 (24004044440000000000 |
| | | | s - Qualit | ty Contr | 01 | | | | | |
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 7090301 = Ammonia, Total EPA 35 | 0.1 | 2253.457778,53599.949.949.974.974.974.974.974.974.974.9 | | ***** | | | | 941 1968/00/00/00/00/00/00/00/00/00/00/00/00/00 | | 20000000000000000000000000000000000000 |
| Batch 7090407 = Total Phosphorus, Total | EPA 3 | 65.3 (Spec) | | | | | | | | |
| Blank (7090407-BLK1) | | | | | | | | | _ | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | _ | | | |
| Duplicate (7090407-DUP1) Source: 0 | 708366- | -01 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.894 | 0.006 | mg/L | | 0.871 | | | 3 | 20 | |
| Matrix Spike (7090407-MS1) Source: 0 | 708366- | -03 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.864 | 0.006 | mg/L | 0.267 | 0.644 | 82 | 80-120 | | | |
| Reference (7090407-SRM1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.106 | 0.006 | mg/L | 0.108 | | 98 | 0-200 | | | |
| Batch 7090504 = Total Kjeldahl Nitrogen, | Total 1 | EPA 351.2 | | | | | | | | |
| Blank (7090504-BLK1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| LCS (7090504-BS1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 1.91 | 0.08 | mg/L | 2.00 | ah 1 ha Pranaa | 96 | 90-110 | | | |
| Matrix Spike (7090504-MS2) Source: 0 | 708366- | -0.3 | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 2.48 | 0.08 | mg/L | 1.00 | 1.53 | 95 | 80-120 | | | |
| Batch 7090505 = Total Kjeldahl Nitrogen, | Dissol | ved EPA 35 | 51.2 | | | | | | | |
| Blank (7090505-BLK1) | | | | ************************************** | ****** | ********* | MENNENELINGER VORTER EINERSCHMALDALLING | | | ang da ang ang ang ang ang ang ang ang ang an |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| | | | U | | | | | | | |
| LCS (7090505-BS1) Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.88 | 0.08 | mg/L | 2.00 | | 94 | 90-110 | | | |
| | | | | | | | | | | |
| Duplicate (7090505-DUP4) Source: 0 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.39 | 0.08 | mg/L | | 2.56 | | | 7 | 20 | |
| | | | | | | | | , | 20 | |
| Matrix Spike (7090505-MS4) Source: 0 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.45 | 0.08 | mg/L | 1.00 | 1.41 | 104 | 85-115 | | | |
| | | | | 1.00 | | | 00 110 | | | |
| Batch 7090616 = Nitrate-Nitrite, Total EP | A 353.2 | 2 | | | | | | au) (1995) | | 111-12-11-11-11-11-11-11-11-11-11-11-11- |
| Blank (7090616-BLK1) | | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.003 U | 0.003 | mg/L | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Serial: LAB-070924 52819 | | | | | | | | | | Page 9 of 12 |
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| | | | | | | | | | | |

| WetlandsShitting Inc. Project Lake Hancock Reparation Q200 NV 161 C1 Project Manager: Ren Clarke 09/24/07 17:27 Nutrients - Quality Courtest Server < | | | | | | | | 1 4 82 | | n unicu - i | DEL #E0200 |
|---|---|------------------|-------------|------------|-----------|-------------------------------|--|--|--|--------------------------------|------------|
| Nutrients - Quality Control Analyte Repute Level Space Security Source Security Space Security Source Security Space Security Sp | 2809 NW 161 Ct | | | | | | | | | Repor | -ted: |
| Analyte Reporting Limit Splke Source Result Splke Splke <thsplke< th=""> <thsplke< th=""> Splke<</thsplke<></thsplke<> | Gainesville, FL 32609 | | Project Ma | nager: Roi | n Clarke | | 144 million (1944) (1944) (1944) | ATTRECOLOGICAL STATEMENT OF THE STATEMENT | | 09/24/07 | 7 17:27 |
| Analyte Result Limit Units Level Result %REC Limit Notes Batch 7090616 = Nitrate-Nitrite, Total EPA 353.2 | | | Nutrient | s - Qual | ity Contr | ol | | | | | |
| Reference (7090616-SRM1) 137 0.003 mg/L 1.38 99 0200 Reference (7090616-SRM2) | Analyte | Result | | Units | - | | %REC | | RPD | | Notes |
| Nirnie-Nirnie, Total EPA 353.2 1.37 0.003 mg/L 1.38 99 0-200 Reference (7090616-SRM2) | Batch 7090616 = Nitrate-Nitrite, | Total EPA 353.2 | 2 | | | NUMER CARACOCKOCKCO DIVERSION | 00000000000000000000000000000000000000 | | | | |
| Seference (7090616-SRM2) Ind Ind <thind< th=""> Ind <thind< th=""></thind<></thind<> | Reference (7090616-SRM1) | | | | | inen deren und sonne | | CHARLEN CONT. ACT OF THE DAMAGE AND | | | |
| Nitrate-Nitrite, Total EPA 353.2 1.02 0.003 mg/l. 1.00 102 0-200 Batch 7090712 = Nitrate-Nitrite, Total EPA 353.2 0.003 U 0.003 mg/l. 0 0.008 0 20 Matrix Splike (7090712-BLK1) Source: 0708366-02 0.008 0.008 mg/l. 0.008 0 20 Matrix Splike (7090712-SIX) Source: 0708366-03 | Nitrate-Nitrite, Total EPA 353.2 | 1.37 | 0.003 | mg/L | 1.38 | - | 99 | 0-200 | | | |
| Nime-Niurie, Total EPA 353.2 1.02 0.003 mg/L 1.00 102 0-200 Batch 7090712 = Nitrate-Nitrite, Total EPA 353.2 0.003 mg/L 0.008 0 20 Wintac-Nitrite, Total EPA 353.2 0.003 U 0.003 mg/L 0.008 0 20 Wintac-Nitrite, Total EPA 353.2 0.003 U 0.003 mg/L 0.008 0 20 Wintac-Nitrite, Total EPA 353.2 0.003 Mg/L 0.008 97 90-110 0 20 Reference (7090712-SRM1) Source: 0708366-03 0 20 0 20 Wintac-Nitrite, Total EPA 353.2 0.48 0.003 mg/L 1.38 107 0-200 Reference (7090712-SRM1) 0 0.003 mg/L 1.00 110 0-200 Batch 7091007 = Total Phosphorus, Total EPA 365.3 (Spec) 0.006 U 0.006 mg/L 0.987 2 20 Matrix Spike (7091007-MSL) Source: 0708366-01RE1 20 20 | Reference (7090616-SRM2) | | | | | | | | | | |
| Batch 7090712 = Nitrate-Nitrite, Total EPA 353.2 Bink (7090712-BLK1) | | 1.02 | 0.003 | mg/L | 1.00 | | 102 | 0-200 | | | |
| Bank (7090712-BLK1) 0.003 U 0.003 W mg/L Marka Nitrite, Total EPA 353.2 0.003 U 0.003 mg/L 0.008 0 20 Marka Spike (7090712-BUP1) Source: 0708366-02 0.008 0 20 Marka Spike (7090712-MS1) Source: 0708366-03 0 20 Marka Spike (7090712-SRM1) Source: 0708366-03 0 20 Mirate-Nitrite, Total EPA 353.2 0.395 0.003 mg/L 0.400 0.008 97 90-110 Reference (7090712-SRM1) Sitrate-Nitrite, Total EPA 353.2 1.48 0.003 mg/L 1.38 107 0-200 Reference (7090712-SRM2) | Datah 7000712 - Niturata Niturita ' | T-4-1 EDA 262 (| 9 | 0 | | | | | | | |
| Hirtate-Nitrite, Total EPA 353.2 0.003 U 0.003 mg/L Duplicate (7090712-DUP1) Source: 0708366-02 Hirtate-Nitrite, Total EPA 353.2 0.008 0.003 mg/L 0.008 0 0 20 Matrix Spike (7090712-MS1) Source: 0708366-0.3 | | 10111 EPA 353.2 | 4 | | | | | | | annantonan oʻrti vi tara qaqaq | |
| Duplicate (7090712-DUP1) Source: 0708366-02 Vitrate-Nitrite, Total EPA 353.2 0.008 0.003 mg/L 0.008 0 20 Matrix Spike (7090712-MS1) Source: 0708366-03 | | 0.003.11 | 0.002 | mg/I | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 0.008 0.003 mg/L 0.008 0 20 Matrix Spike (7090712-MS1) Source: 0708366-03 | | 0.003 0 | 0.005 | mg/L | | | | | | | |
| Matrix Spike (7090712-MS1) Source: 0708366-03 Witrate-Nitrite, Total EPA 355.2 0.395 0.003 mg/L 0.400 0.008 97 90-110 Reference (7090712-SRM1) | | | | | | | | | | | |
| Witrate-Nitrite, Total EPA 353.2 0.395 0.003 mg/L 0.400 0.008 97 90-110 Reference (7090712-SRM1) | Vitrate-Nitrite, Total EPA 353.2 | 0.008 | 0.003 | mg/L | | 0.008 | | | 0 | 20 | |
| Reference (7090712-SRM1) Strate-Nitrite, Total EPA 353.2 1.48 0.003 mg/L 1.38 107 0-200 Strate-Nitrite, Total EPA 353.2 1.10 0.003 mg/L 1.00 110 0-200 Strate-Nitrite, Total EPA 353.2 1.10 0.003 mg/L 1.00 110 0-200 State 7091007 = Total Phosphorus, Total EPA 365.3 (Spec) 0.006 mg/L 0.006 110 0-200 Bank (7091007-BLK1) Source: 0708366-01RE1 0.006 mg/L 0.987 2 20 Atarix Spike (7091007-MS1) Source: 0708366-03RE1 0.012 mg/L 0.533 0.671 97 80-120 Cold Phosphorus, Total EPA 365.3 (Spec) 1.19 0.012 mg/L 0.533 0.671 97 80-120 Reference (7091007-SRM1) mg/L 0.108 94 0-200 Batch 7091208 = Total Phosphorus, Total EPA 365.3 (Spec) 0.102 0.006 mg/L 0.108 94 0-200 Batch 7091208 = Total Phosphorus, Total EPA 365.3 (Spec) 0. | Aatrix Spike (7090712-MS1) | Source: 0708366- | -03 | | | | | | | | |
| litrate-Nitrite, Total EPA 353.2 1.48 0.003 mg/L 1.38 107 0-200 Reference (7090712-SRM2) | litrate-Nitrite, Total EPA 353.2 | 0.395 | 0.003 | mg/L | 0.400 | 0.008 | 97 | 90-110 | | | |
| litrate-Nitrite, Total EPA 353.2 1.48 0.003 mg/L 1.38 107 0-200 Reference (7090712-SRM2) | Reference (7090712-SRM1) | | | | | | | | | | |
| litrate-Nitrite, Total EPA 353.2 1.10 0.003 mg/L 1.00 110 0-200 Batch 7091007 = Total Phosphorus, Total EPA 365.3 (Spec) 0.006 U 0.006 mg/L 0.007 Bank (7091007-BLK1) 50urce: 0708366-01RE1 0.012 mg/L 0.987 2 20 Atrix Spike (7091007-MS1) Source: 0708366-03RE1 0.012 mg/L 0.987 2 20 Atrix Spike (7091007-MS1) Source: 0708366-03RE1 0.012 mg/L 0.533 0.671 97 80-120 Aterix Spike (7091007-SRM1) 0.012 mg/L 0.533 0.671 97 80-120 Batch 7091208 = Total Phosphorus, Total EPA 365.3 (Spec) 0.102 0.006 mg/L 0.108 94 0-200 Batch 7091208 = Total Phosphorus, Total EPA 365.3 (Spec) 0.006 U 0.006 mg/L 0.108 94 0-200 Batch 7091208 = Total Phosphorus, Total EPA 365.3 (Spec) 0.006 U 0.006 mg/L 0.108 94 0-200 Batch 7091208 = Cotal Phosphorus, Total EPA 365.3 (Spec) 0.006 U 0.006 mg/L 0.006 0.006 0.006 0.012 0 | | 1.48 | 0.003 | mg/L | 1.38 | | 107 | 0-200 | | | |
| litrate-Nitrite, Total EPA 353.2 1.10 0.003 mg/L 1.00 110 0-200 Batch 7091007 = Total Phosphorus, Total EPA 365.3 (Spec) 0.006 U 0.006 mg/L 0.007 Bank (7091007-BLK1) 50urce: 0708366-01RE1 0.012 mg/L 0.987 2 20 Atrix Spike (7091007-MS1) Source: 0708366-03RE1 0.012 mg/L 0.987 2 20 Atrix Spike (7091007-MS1) Source: 0708366-03RE1 0.012 mg/L 0.533 0.671 97 80-120 Aterix Spike (7091007-SRM1) 0.012 mg/L 0.533 0.671 97 80-120 Batch 7091208 = Total Phosphorus, Total EPA 365.3 (Spec) 0.102 0.006 mg/L 0.108 94 0-200 Batch 7091208 = Total Phosphorus, Total EPA 365.3 (Spec) 0.006 U 0.006 mg/L 0.108 94 0-200 Batch 7091208 = Total Phosphorus, Total EPA 365.3 (Spec) 0.006 U 0.006 mg/L 0.108 94 0-200 Batch 7091208 = Cotal Phosphorus, Total EPA 365.3 (Spec) 0.006 U 0.006 mg/L 0.006 0.006 0.006 0.012 0 | Pafaranca (7000712 SPM2) | | | | | | | | | | |
| Batch 7091007 = Total Phosphorus, Total EPA 365.3 (Spec) Blank (7091007-BLK1) Ouplicate (7091007-DUP1) Source: 0708366-01RE1 Ouplicate (7091007-DUP1) Source: 0708366-01RE1 Outal Phosphorus, Total EPA 365.3 (Spec) 0.971 0.012 mg/L 0.987 2 20 Matrix Spike (7091007-MS1) Source: 0708366-03RE1 Total Phosphorus, Total EPA 365.3 (Spec) 1.19 0.012 mg/L 0.533 0.671 97 80-120 Reference (7091007-SRM1) Total Phosphorus, Total EPA 365.3 (Spec) 0.102 0.006 mg/L 0.108 94 0-200 Batch 7091208 = Total Phosphorus, Total EPA 365.3 (Spec) 0.102 0.006 mg/L 0.108 94 0-200 Blank (7091208-BLK1) Otal Phosphorus, Total EPA 365.3 (Spec) 0.006 mg/L 0.108 94 0-200 Blank (7091208-BLK1) Concerce (70931208-DUP1) Outer 0708366-04RE2 Colspan= 6 Outer 0708366-04RE2 Outer 0708366-04RE2 Outer 0708366-04RE2 < | AND | 1.10 | 0,003 | mg/L | 1.00 | | 110 | 0-200 | | | |
| Blank (7091007-BLK1) | | | | 5 | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) 0.006 U 0.006 mg/L Source: 0708366-01RE1 | Batch 7091007 = Total Phosphori | us, Total EPA 30 | 55.3 (Spec) | | | | | | | | |
| Source: 0708366-01RE1 Total Phosphorus, Total EPA 365.3 (Spec) 0.971 0.012 mg/L 0.987 2 20 Matrix Spike (7091007-MS1) Source: 0708366-03RE1 Image: Control of Contro | | | | | | | to be a first from some | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) 0.971 0.012 mg/L 0.987 2 20 Matrix Spike (7091007-MS1) Source: 0708366-03RE1 | otal Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| Matrix Spike (7091007-MS1) Source: 0708366-03RE1 Total Phosphorus, Total EPA 365.3 (Spec) 1.19 0.012 mg/L 0.533 0.671 97 80-120 Reference (7091007-SRM1) Total Phosphorus, Total EPA 365.3 (Spec) 0.102 0.006 mg/L 0.108 94 0-200 Batch 7091208 = Total Phosphorus, Total EPA 365.3 (Spec) Blank (7091208-BLK1) Total EPA 365.3 (Spec) Total Phosphorus, Total EPA 365.3 (Spec) 0.006 mg/L Total Phosphorus, Total EPA 365.3 (Spec) Duplicate (7091208-BLK1) Total Phosphorus, Total EPA 365.3 (Spec) Total Phosphorus, Total EPA 365.3 (Spec) 0.006 mg/L Total Phosphorus, Total EPA 365.3 (Spec) Ouplicate (7091208-DUP1) Source: 0708366-04RE2 Total Phosphorus, Total EPA 365.3 (Spec) 0.863 0.012 mg/L 0.869 0.7 20 | Duplicate (7091007-DUP1) | Source: 0708366- | 01RE1 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) 1.19 0.012 mg/L 0.533 0.671 97 80-120 Reference (7091007-SRM1) Total Phosphorus, Total EPA 365.3 (Spec) 0.102 0.006 mg/L 0.108 94 0-200 Batch 7091208 = Total Phosphorus, Total EPA 365.3 (Spec) Blank (7091208-BLK1) Total Phosphorus, Total EPA 365.3 (Spec) 0.006 mg/L Duplicate (7091208-DUP1) Source: 0708366-04RE2 Total Phosphorus, Total EPA 365.3 (Spec) 0.863 0.012 mg/L 0.869 0.7 20 | otal Phosphorus, Total EPA 365.3 (Spec) | 0.971 | 0.012 | mg/L | | 0.987 | | | 2 | 20 | |
| Total Phosphorus, Total EPA 365.3 (Spec) 1.19 0.012 mg/L 0.533 0.671 97 80-120 Reference (7091007-SRM1) Total Phosphorus, Total EPA 365.3 (Spec) 0.102 0.006 mg/L 0.108 94 0-200 Batch 7091208 = Total Phosphorus, Total EPA 365.3 (Spec) Blank (7091208-BLK1) Total Phosphorus, Total EPA 365.3 (Spec) 0.006 mg/L Duplicate (7091208-DUP1) Source: 0708366-04RE2 Total Phosphorus, Total EPA 365.3 (Spec) 0.863 0.012 mg/L 0.869 0.7 20 | Aatrix Spike (7091007-MS1) | Source: 0708366- | 03RE1 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) 0.102 0.006 mg/L 0.108 94 0-200 Batch 7091208 = Total Phosphorus, Total EPA 365.3 (Spec) Blank (7091208-BLK1) Total Phosphorus, Total EPA 365.3 (Spec) 0.006 mg/L Ouplicate (7091208-DUP1) Source: 0708366-04RE2 Total Phosphorus, Total EPA 365.3 (Spec) 0.863 0.012 mg/L 0.869 0.7 20 | | | | mg/L | 0.533 | 0.671 | 97 | 80-120 | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) 0.102 0.006 mg/L 0.108 94 0-200 Batch 7091208 = Total Phosphorus, Total EPA 365.3 (Spec) Blank (7091208-BLK1) Total Phosphorus, Total EPA 365.3 (Spec) 0.006 mg/L Ouplicate (7091208-DUP1) Source: 0708366-04RE2 Total Phosphorus, Total EPA 365.3 (Spec) 0.863 0.012 mg/L 0.869 0.7 20 | 2 - Foronao (7001007 SDM1) | | | | | | | | | | |
| Batch 7091208 = Total Phosphorus, Total EPA 365.3 (Spec) Blank (7091208-BLK1) Total Phosphorus, Total EPA 365.3 (Spec) 0.006 U 0.006 mg/L Duplicate (7091208-DUP1) Source: 0708366-04RE2 Total Phosphorus, Total EPA 365.3 (Spec) 0.863 0.012 mg/L 0.869 0.7 20 | and an and a second s | 0 102 | 0.006 | mø/L | 0.108 | | 94 | 0-200 | | | |
| Blank (7091208-BLK1) otal Phosphorus, Total EPA 365.3 (Spec) 0.006 U 0.006 mg/L Duplicate (7091208-DUP1) Source: 0708366-04RE2 otal Phosphorus, Total EPA 365.3 (Spec) 0.863 0.012 mg/L 0.869 0.7 20 | | | | ing, E | 0.100 | | 2. | 0 200 | | | |
| `otal Phosphorus, Total EPA 365.3 (Spec) 0.006 U 0.006 mg/L Duplicate (7091208-DUP1) Source: 0708366-04RE2 `otal Phosphorus, Total EPA 365.3 (Spec) 0.863 0.012 mg/L 0.869 0.7 20 | <pre>satch 7091208 = Total Phosphore</pre> | us, Total EPA 30 | 65.3 (Spec) | | | | ****** | | 01. WILLIAM AN | | |
| Source: 0708366-04RE2 'otal Phosphorus, Total EPA 365.3 (Spec) 0.863 0.012 mg/L 0.869 0.7 20 | | | | | | | 10711-10710-111-1 Tana Amanda 1 | | | | |
| otal Phosphorus, Total EPA 365.3 (Spec) 0.863 0.012 mg/L 0.869 0.7 20 | otal Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| otal Phosphorus, Total EPA 365.3 (Spec) 0.863 0.012 mg/L 0.869 0.7 20 | Duplicate (7091208-DUP1) | Source: 0708366- | 04RE2 | | | | | | | | |
| erial: LAB-070924 52819 Page 10 of | | | | mg/L | | 0.869 | | | 0.7 | 20 | |
| erial: LAB-070924 52819 Page 10 of | | | | | | | | | | | |
| erial: LAB-070924 52819 Page 10 of | | | | | | | | | | | |
| | erial: LAB-070924 52819 | | | | | | | | | | Page 10 of |
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6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

Advanced Environmental Laboratories, Inc.



| Advanced Environmental Laboratories. Inc. | | 6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001 |
|--|-----------------------------|---|
| Wetlands Solutions Inc. 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 09/24/07 17:27 |

| | 1971 2020 Water Value 2000 | | | ****** | | | | | | |
|---------|----------------------------|-----------|-------|--------|--------|--------|--------|---|-------|-------|
| | | Reporting | | Spike | Source | | %REC | | RPD | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| | | | | | | ······ | | 437557777777777777777777777777777777777 | | |

Batch 7091208 = Total Phosphorus, Total EPA 365.3 (Spec)

| Reference (7091208-SRM1) | | | | |
|---|-------------|------------|----------|---------------|
| otal Phosphorus, Total EPA 365.3 (Spec) | 0.105 0.006 | mg/L 0.108 | 97 0-200 | |
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| erial: LAB-070924 52819 | | | | Page 11 of 12 |
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| Q | Idvanced Environmental Laboratories, Im | NELA Project: Lake Hancock Project Manager: Ron Clarke NOTES AND DEFINITIONS sults and recoveries confirm. sample and its duplicate is low in comparison to the MDL. It is the general policy of el the sample is not rerun and the data is considered acceptable. equation, not due to contamination. Results in samples are elevated by an amount of d detection limit | Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001 |
|---------|---|---|--|
| 2809 NV | s Solutions Inc. V 161 Ct Ile, FL 32609 | biraturies, Inc. 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001 Project: Lake Hancock Project Manager: Ron Clarke Reported: 09/24/07 17:27 NOTES AND DEFINITIONS n reextract; results and recoveries confirm. trations of the sample and its duplicate is low in comparison to the MDL. It is the general policy of the ge is at this level the sample is not rerun and the data is considered acceptable. ctract. e to regression equation, not due to contamination. Results in samples are elevated by an amount equal to the ove the method detection limit | |
| | | NOTES AND DEFINITIONS | |
| S-CON | Poor matrix spike recovery on reextract; res | ults and recoveries confirm. | |
| D-RNG | | | he general policy of the |
| D-REX | Poor duplicates; Created reextract. | | |
| CUSTa | Method blank is elevated due to regression a blank for this reason. | equation, not due to contamination. Results in samples are eleva | ted by an amount equal to the |
| CUST | Blank passes | | |
| U | Analyte not detected at or above the method | detection limit | |
| I | Analyte not detected above the practical qua | ntitation limit. | |
| NR | Not Reported | | |

- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

6815 SW Archer Rd

Items for Project Manager Review

| LabNumber | Analysis | Exception |
|-------------|--------------------------------------|--|
| | | Default Report (not modified) |
| | | VERSION 5.8.5:2709 |
| | Ammonia, Total EPA 350.1 | Result calculations based on MDL |
| | Ammonia, Total EPA 350.1 | RPD calculations based on %Recovery |
| | Nitrate-Nitrite, Total EPA 353.2 | Result calculations based on MDL |
| | Nitrate-Nitrite, Total EPA 353.2 | RPD calculations based on %Recovery |
| | Soluble Reactive Phosphate EPA 365.2 | Result calculations based on MDL |
| | Soluble Reactive Phosphate EPA 365.2 | RPD calculations based on %Recovery |
| 708366-01 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination. Results in sam |
| 708366-02 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination: Results in sam |
| 708366-03 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination. Results in sam |
| 708366-04 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination. Results in sam |
| 708366-05 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination. Results in sam |
| 0708366-06 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination; Results in sam |
| 708366-07 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination; Results in sam |
| 735057-CCV1 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination: Results in sam |
| 735057-CCV2 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination: Results in sam |
| 735057-CCV3 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination; Results in sam |
| 735057-CCV4 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination; Results in sam |
| 735057-CCV5 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination: Results in sam |
| 735057-CCV6 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination; Results in sam |
| 735057-CCV7 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination: Results in sam |
| 735057-CCV8 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination. Results in sam |
| 735057-CCV9 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination: Results in sam |
| 735057-CCVA | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination. Results in sam |
| 735057-CCVB | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination. Results in sam |
| 083107-BLK1 | Soluble Reactive Phosphate EPA 365.2 | Blank >1 x MRL |
| 083107-BLK1 | Soluble Reactive Phosphate EPA 365.2 | CUST: Blank passes |
| 083107-DUP1 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination. Results in sam |
| 083107-DUP2 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination. Results in sam |
| 083107-DUP3 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination; Results in sam |
| 083107-DUP4 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination. Results in sam |

Items for Project Manager Review

| LabNumber | Analysis | Exception |
|--|--|---|
| 7083107-DUP5 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination. Results in sam |
| 7083107-DUP6 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination. Results in sam |
| 7083107-MS1 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination. Results in sam |
| 7083107-MS2 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination. Results in sam |
| 7083107-MS3 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination. Results in sam |
| 7083107-MS4 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination. Results in sam |
| 7083107-MS5 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination. Results in sam |
| 7083107-MS6 | Soluble Reactive Phosphate EPA 365.2 | CUSTa: Method blank is elevated due to regression equation, not due to contamination. Results in sam |
| Eau-ord/public instruments of the second | Total Kieldahl Nitrogen, Dissolved EPA 351.2 | Result calculations based on MDL |
| | Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | RPD calculations based on %Recovery |
| 7090505-MS1 | Total Kieldahl Nitrogen, Dissolved EPA 351.2 | Exceeds lower control limit |
| 7090505-MS1 | Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | S-CON: Poor matrix spike recovery on reextract; results and recoveries confirm. |
| | Total Kjeldahl Nitrogen, Total EPA 351.2 | Result calculations based on MDL |
| | Total Kjeldahl Nitrogen, Total EPA 351.2 | RPD calculations based on %Recovery |
| 7090504-DUP2 | Total Kjeldahl Nitrogen, Total EPA 351.2 | D-RNG: The difference of the concentrations of the sample and its duplicate is low in comparison to |
| 7090504-DUP2 | Total Kjeldahl Nitrogen, Total EPA 351.2 | Exceeds RPD limit |
| | Total Phosphorus, Total EPA 365.3 (Spec) | Result calculations based on MDL |
| | Total Phosphorus, Total EPA 365.3 (Spec) | RPD calculations based on %Recovery |
| 7091208-DUP4 | Total Phosphorus, Total EPA 365.3 (Spec) | D-REX: Poor duplicates; Created reextract. |
| 7091208-DUP4 | Total Phosphorus, Total EPA 365.3 (Spec) | Exceeds RPD limit |
| | Total Suspended Solids EPA 160.2 - 100mL | Result calculations based on MDL |
| | Total Suspended Solids EPA 160.2 - 100mL | RPD calculations based on %Recovery |



6815 SW Archer Road Gainesville, Florida 32608 (352) 377-2349 FAX (352) 395-6639

October 9, 2007

Serial: LAB-0710

Ron Clarke Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 RE: Lake Hancock Work Order: 0709309

Enclosed are the results of analyses for samples received by the laboratory on September 28, 2007.

All data were determined in accordance with published procedures (EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Rev March 1983; and Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992). Our laboratory is certified by Florida Department of Health (FDH No. E82001).

All results were determined in accordance with NELAP requirements and in accordance with the chain of custody document unless noted in the report case narrative or data report. All data is subject to a degree of uncertainty. For a discussion of laboratory uncertainty, please contact your project manager. This analytical report must be reproduced in its entirety.

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

Sincerely,

Paul Berman Quality Assurance Manager pberman@aellab.com

Advanced Environmental Laboratories

Page 1 of 11

NELAC requires that any value reported be listed as having less certainty if the result is between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ). The levels shown in the table below are the laboratories MDL and LOQ. Any result reported that falls between these two values should be considered to have less certainty.

| Analyte | units | Method | MDL | LOQ |
|--|-------|-------------------|-------|------|
| Ammonia | mg/L | EPA 350.1 | 0.009 | 0.0 |
| Chloride | mg/L | EPA 325.2 | 0.12 | |
| Chromium +6 | ug/L | 3500CrB, EPA 7196 | 4.5 | 7 |
| COD | mg/L | EPA 410.4 | 6.2 | 7 |
| Conductivity | uS/cm | EPA 120.1 | 9.2 | 14 |
| Cyanide | mg/L | 335.2, 9010/9014 | 0.002 | 0.00 |
| Fluoride (undistilled) | mg/L | EPA 340.2 | 0.02 | 0.0 |
| Kjeldahl Nitrogen (Alpkem - CuSO4 digestion) | mg/L | EPA 351.2 | 0.08 | 0 |
| Nitrite (Spectrophotometer) | mg/L | EPA 353.3 | 0.004 | 0.00 |
| Nitrite/Nitrate | mg/L | EPA 353.2 | 0.003 | 0.00 |
| Organic Carbon | mg/L | EPA 415.2 | 0.7 | |
| Ortho Phosphorus, Genesys II | mg/L | EPA 365.2 | 0.002 | 0.00 |
| Dissolved Silica | mg/L | EPA 370.1 | 0.05 | |
| Sulfate | mg/L | EPA 375.4 | 0.33 | |
| Total Carbon | mg/L | EPA 415.2 | 0.5 | |
| Total Phosphorus, Spec - Genesys II | mg/L | EPA 365.3 | 0.006 | 0.00 |
| Total Phosphorus, Alpkem | mg/L | EPA 365.1 | 0.002 | 0.00 |
| Turbidity | NTU | EPA 180.1 | 0.03 | 0 |
| Silver | ug/L | EPA 272.2/7761 | 0.1 | 0.1 |
| Tin | ug/L | EPA 282.2/7871 | 1.8 | 3.1 |
| Aluminum | ug/L | EPA 200.7/6010 | 13.9 | 4 |
| Antimony | ug/L | EPA 200.7/6010 | 2.9 | 4 |
| Arsenic | ug/L | EPA 200.7/6010 | 2.3 | 5 |
| Barium | ug/L | EPA 200.7/6010 | 0.2 | |
| Beryllium | ug/L | EPA 200.7/6010 | 0.10 | 5 |
| Boron | ug/L | EPA 200.7/6010 | 1.5 | 4 |
| Cadmium | ug/L | EPA 200.7/6010 | 0.4 | 4 |
| Calcium | mg/L | EPA 200.7/6010 | 0.02 | 0.0 |
| Chromium | ug/L | EPA 200.7/6010 | 0.4 | 5 |
| Cobalt | ug/L | EPA 200.7/6010 | 0.4 | 4 |
| Copper | ug/L | EPA 200.7/6010 | 0.4 | 4 |
| Iron | ug/L | EPA 200.7/6010 | 0.7 | |
| Lead | ug/L | EPA 200.7/6010 | 1.9 | |
| Magnesium | mg/L | EPA 200.7/6010 | 0.014 | 0.0 |
| Manganese | ug/L | EPA 200.7/6010 | 0.15 | |
| Molybdenum | ug/L | EPA 200.7/6010 | 0.7 | |
| Nickel | ug/L | EPA 200.7/6010 | 0.7 | |
| Potassium | mg/L | EPA 200.7/6010 | 0.006 | 0. |
| Selenium | ug/L | EPA 200.7/6010 | 2.4 | |
| Sodium | mg/L | EPA 200.7/6010 | 0.065 | 0 |
| Strontium | ug/L | EPA 200.7/6010 | 0.19 | |
| Thallium | ug/L | EPA 200.7/6010 | 3.6 | |
| Titanium | ug/L | EPA 200.7/6010 | 0.26 | |
| Vanadium | ug/L | EPA 200.7/6010 | 0.5 | |
| Zinc | ug/L | EPA 200.7/6010 | 1.65 | |

Serial: LAB-0710

Page 2 of 11

31 -9

DUP

Advanced Environmental Laboratories, Inc. 6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

09/28/07 10:00

09/27/07 13:30

| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Project | Project: Lake Hancock Manager: Ron Clarke | | Reported: 10/09/07 11:35 |
|--|---------------|--|----------------|------------------------------------|
| | ANALYTICAL F | REPORT FOR SAMPLES | | |
| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
| W - 1 | 0709309-01 | Water | 09/27/07 13:20 | 09/28/07 10:00 |
| W - 2 | 0709309-02 | Water | 09/27/07 13:30 | 09/28/07 10:00 |
| W - 3 | 0709309-03 | Water | 09/27/07 13:40 | 09/28/07 10:00 |
| W - 4 | 0709309-04 | Water | 09/27/07 13:45 | 09/28/07 10:00 |
| W - 5 | 0709309-05 | Water | 09/27/07 14:00 | 09/28/07 10:00 |
| C-2 | 0709309-06 | Water | 09/27/07 12:34 | 09/28/07 10:00 |

Water

0709309-07



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | | | | | Reported: 10/09/07 11:35 | | |
|--|--|--------------------|-----------|----------|---------|---------------------------------|----------------|-------|
| | R | EPORT OF | RESUL | ГS | | | | |
| | | W - 2000 | - | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.030 I | 0.009 | mg/L | 1 | 7100303 | 10/03/07 | 10/03/07 13:34 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.015 | 0.003 | mg/L | 1 | 7100108 | 10/01/07 | 10/02/07 12:32 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.260 | 0.002 | mg/L | 1 | 7092803 | 09/28/07 | 09/28/07 17:15 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.32 | 0.08 | mg/L | 1 | 7100102 | 10/01/07 | 10/02/07 15:13 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 2.32 | 0.08 | mg/L | 1 | 7100103 | 10/01/07 | 10/02/07 15:13 | |
| Total Suspended Solids EPA 160.2 - 100mL | 8.0 I | 2.0 | mg/L | 1 | 7100104 | 10/01/07 | 10/01/07 10:33 | |
| | | W - | 1 | | | | | |
| | 0 | 709309-01RI | E1 (Water |) | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.907 | 0.030 | mg/L | 5 | 7100407 | 10/04/07 | 10/05/07 02:00 | |
| | | W - | 2 | | | | | |

0709309-02 (Water)

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--|--------|--------------------|-------|----------|---------|----------|----------------|-------|
| Ammonia, Total EPA 350.1 | 0.046 | 0.009 | mg/L | 1 | 7100303 | 10/03/07 | 10/03/07 13:36 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.017 | 0.003 | mg/L | 1 | 7100108 | 10/01/07 | 10/02/07 12:34 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.178 | 0.002 | mg/L | 1 | 7092803 | 09/28/07 | 09/28/07 17:15 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.34 | 0.08 | mg/L | 1 | 7100102 | 10/01/07 | 10/02/07 15:13 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 2.34 | 0.08 | mg/L | 1 | 7100103 | 10/01/07 | 10/02/07 15:13 | |
| Total Suspended Solids EPA 160.2 - 100mL | 17.0 | 2.0 | mg/L | 1 | 7100104 | 10/01/07 | 10/01/07 10:33 | |

W - 2 0709309-02RE1 (Water)

Reporting Result Limit Units Batch Prepared Analyzed Notes Analysis Dilution 10/04/07 10/05/07 02:00 5 7100407 Total Phosphorus, Total EPA 365.3 (Spec) 0.893 0.030 mg/L



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| Wetlands Solutions Inc. 2809 NW 161 Ct | | • | ake Hancoc | k | | | Repor | |
|--|---------|---------------------------------|------------|--------------------|-------------------------|--------------------------|-----------------------------------|---------|
| Gainesville, FL 32609 | Proje | ect Manager: R | on Clarke | | | | 10/09/07 | 7 11:35 |
| | | W - 3 | 3 | | | | | |
| | | 0709309-03 | (Water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.019 I | 0.009 | mg/L | 1 | 7100303 | 10/03/07 | 10/03/07 13:37 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.008 I | 0.003 | mg/L | 1 | 7100108 | 10/01/07 | 10/02/07 12:36 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.307 | 0.002 | mg/L | 1 | 7092803 | 09/28/07 | 09/28/07 17:15 | |
| Fotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.45 | 0.08 | mg/L | 1 | 7100102 | 10/01/07 | 10/02/07 15:13 | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 1.45 | 0.08 | mg/L | 1 | 7100103 | 10/01/07 | 10/02/07 15:13 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.589 | 0.006 | mg/L | 1 | 7100105 | 10/01/07 | 10/02/07 15:45 | CUST |
| Fotal Suspended Solids EPA 160.2 - 100mL | 7.0 I | 2.0 | mg/L | 1 | 7100104 | 10/01/07 | 10/01/07 10.33 | |
| | | W - 3 | 3 | | | | | |
| | 0 | 709309-03RI | |) | | | | |
| | | Reporting | | | | | | |
| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.586 | 0.018 | mg/L | 3 | 7100407 | 10/04/07 | 10/05/07 02:00 | |
| | | W - | 4 | | | | | |
| | | 0709309-04 | (Water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.024 I | 0.009 | mg/L | 1 | 7100303 | 10/03/07 | 10/03/07 13:38 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.006 I | 0.003 | mg/L | 1 | 7100108 | 10/01/07 | 10/02/07 12:47 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.300 | 0.002 | mg/L | 1 | 7092803 | 09/28/07 | 09/28/07 17:15 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.42 | 0.08 | mg/L | 1 | 7100102 | 10/01/07 | 10/02/07 15:13 | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 1.42 | 0.08 | mg/L | 1 | 7100103 | 10/01/07 | 10/02/07 15:13 | |
| | 24.0 | 2.0 | mg/L | 1 | 7100104 | 10/01/07 | 10/01/07 10:33 | |
| Total Suspended Solids EPA 160.2 - 100mL | 24.0 | 2.0 | | | | | | |
| Fotal Suspended Solids EPA 160.2 - 100mL | 24.0 | | • | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | | - W - | 4 |) | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 0 | W - 709309-04R1 Reporting | 4 |) | | | | |
| Total Suspended Solids EPA 160.2 - 100mL Analysis | | W - 1709309-04R1 | 4 |) Dilution 3 | Batch 7100407 | Prepared 10/04/07 | Analyzed 10/05/07 02:00 | Notes |

Page 5 of 11



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| W - 5 0709309-05 (Water) W - 5 0709309-05 (Water) Analysis Result Dilution Batch Prepared Analyzed Notes Amalysis Result Dilution Batch Prepared Analyzed Notes Amalysis Result Units Dilution Batch Prepared Analyzed Notes Soluble Reactive Phosphate EPA 355.2 0.002 0.002 mg/L 1 700108 100107 100207 15:13 Total Kjeldahl Nitrogen, Total EPA 351.2 11.0 0.327 0.006 mg/L 1 700102 100107 100207 15:45 Total Suspended Solids EPA 160.2 - 100mL 7 2.0 mg/L 1 700303 100104 100107 <t< th=""><th>Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609</th><th>Droid</th><th>-</th><th>ake Hancoc</th><th>k</th><th></th><th></th><th>Repo 10/09/07</th><th></th></t<> | Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Droid | - | ake Hancoc | k | | | Repo 10/09/07 | |
|--|--|---------|------------|------------|----------|---------|----------|---------------------------------------|---------|
| Analysis Result Ecoreting Limit Dilution Batch Prepare Analyzed Notes Ammonia, Total EPA 350.1 0.124 0.009 mg/L 1 7100303 10/03/07 10/03/07 10/02/07 12:34 Soluble Reactive Phosphate EPA 353.2 0.081 0.002 mg/L 1 7100108 10/01/07 10/02/07 12:34 Soluble Reactive Phosphate EPA 352.2 0.002 0.002 mg/L 1 7100103 10/01/07 10/02/07 15:13 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 5.37 0.16 mg/L 2 7100102 10/01/07 10/02/07 15:13 Total Kjeldahl Nitrogen, Total EPA 365.3 (Spec) 0.327 0.006 mg/L 1 7100103 10/01/07 10/02/07 15:13 Total Suspended Solids EPA 160.2 - 100mL 72.7 2.0 mg/L 1 7100108 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/02/07 13/01 | Gainesvine, FL 52009 | Floje | | | | | | 10/09/0 | / 11.35 |
| Analysis Result Limit Units Dilution Batch Prepared Analyzed Notes Ammonia, Total EPA 350.1 0.124 0.009 mg/L 1 7100303 10/03/07 10/03/07 10/03/07 13.39 Nitrate-Nitrite, Total EPA 353.2 0.081 0.003 mg/L 1 7100108 10/01/07 10/02/07 12:54 Soluble Reactive Phosphate EPA 365.2 0.002 U 0.002 mg/L 1 7092803 09/28/07 09/28/07 10/02/07 15:13 Total Kjeldahl Nitrogen, Total EPA 351.2 5.37 0.16 mg/L 1 7100103 10/01/07 10/02/07 15:45 Total Phosphorus, Total EPA 365.3 (Spec) 0.327 0.006 mg/L 1 7100105 10/01/07 10/02/07 15:45 Total Suspended Solids EPA 160.2 - 100mL 72.7 2.0 mg/L 1 7100104 10/01/07 10/02/07 10:31/07 Analyzed Notes Mamonia, Total EPA 350.1 0.023 0.009 mg/L 1 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<> | | | | | | | | | |
| Analysis Result Limit Units Dilutíon Batch Prepared Analyzed Notes Ammonia, Total EPA 350.1 0.124 0.009 mg/L 1 710030 10/03/07 10/03/07 10/03/07 10/03/07 10/02/07 13.39 Nitrate-Nitrite, Total EPA 353.2 0.081 0.002 mg/L 1 710018 00/1/07 10/02/07 15.37 0.016 mg/L 1 709280 09/28/07 09/28/07 10/02/07 15:13 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 11.0 0.32 mg/L 4 7100103 10/01/07 10/02/07 15:13 Total Kjeldahl Nitrogen, Total EPA 355.3 (Spec) 0.327 0.006 mg/L 1 7100104 10/01/07 10/0 | | | 0709309-05 | (Water) | | | | | |
| Analysis 8.11 0.003 mg/L 1 7100003 10/02/07 12:54 Soluble Reactive Phosphate EPA 365.2 0.002 0.002 mg/L 1 7100108 10/01/07 10/02/07 12:54 Soluble Reactive Phosphate EPA 351.2 5.37 0.16 mg/L 2 7100102 10/01/07 10/02/07 15:13 Total Kjeldahi Nitrogen, Total EPA 351.2 11.0 0.32 mg/L 4 7100103 10/01/07 10/02/07 15:13 Total Suspended Solids EPA 160.2 - 100mL 72.7 2.0 mg/L 1 7100104 10/01/07 10/02/07 15:45 C-2 Ortogrammed Solids EPA 160.2 - 100mL 72.7 2.0 mg/L 1 7100104 10/01/07 10/02/07 15:45 C-2 Ortogrammed Solids EPA 160.2 - 100mL 72.7 2.0 mg/L 1 7100104 10/01/07 10/02/07 15:45 Analysis Limit Units Dilution Batch Prepared Analyzed Notee Ammonia, Total EPA 350.1 | Analysis | Result | | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Analysis 0.002 0.002 mg/L 1 700100 10/01/07 09/28/07 09/28/07 09/28/07 17:15 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 5.37 0.16 mg/L 2 7100102 10/01/07 10/02/07 15:13 Total Kjeldahl Nitrogen, Total EPA 365.3 (Spec) 0.327 0.006 mg/L 1 7100103 10/01/07 10/02/07 15:13 Total Kjeldahl Nitrogen, Total EPA 365.3 (Spec) 0.327 0.006 mg/L 1 7100104 10/01/07 10/02/07 15:45 Total Suspended Solids EPA 160.2 - 100mL 72.7 2.0 mg/L 1 7100104 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/02/07 13:40 Note Ammonia, Total EPA 350.1 0.253 0.009 mg/L 1 7100303 10/03/07 10/03/07 10/03/07 10/02/07 13:40 Soluble Reactive Phosphate | Ammonia, Total EPA 350.1 | 0.124 | 0.009 | mg/L | 1 | 7100303 | 10/03/07 | 10/03/07 13:39 | |
| Konstructure Note Note< | Nitrate-Nitrite, Total EPA 353.2 | 0.081 | 0.003 | mg/L | 1 | 7100108 | 10/01/07 | 10/02/07 12:54 | |
| Total Nitrogen, Disactice IA (1501) 5.57 0.10 mg/5 2 f100103 100/01/07 10/02/07 15:13 Total Phosphorus, Total EPA 351.2 11.0 0.327 0.006 mg/L 1 7100103 10/01/07 10/02/07 15:13 Total Suspended Solids EPA 160.2 - 100mL 72.7 2.0 mg/L 1 7100104 10/01/07 10/01/07 10/01/07 10:33 C-2 OT09309-06 (Water) C-2 Malysis Result Limit Units Dilution Batch Prepared Analyzed Note: Ammonia, Total EPA 350.1 0.253 0.009 mg/L 1 7100108 10/01/07 10/02/07 13:40 Nitrate-Nitrite, Total EPA 350.2 0.036 0.003 mg/L 1 7100108 10/01/07 10/02/07 13:40 Soluble Reactive Phosphate EPA 365.2 0.002 U 0.002 mg/L 1 7100108 10/01/07 10/02/07 15:13 1001/07 10/02/07 15:13 Total Kjeldahl Nitrogen, Total EPA 351.2 3.48 0.08 mg/L 1 7100102 10/01/07< | Soluble Reactive Phosphate EPA 365.2 | 0.002 U | 0.002 | mg/L | 1 | 7092803 | 09/28/07 | 09/28/07 17:15 | |
| Total Phosphorus, Total EPA 365.3 (Spec) 0.327 0.006 mg/L 1 7100105 10/01/07 10/02/07 15:45 Total Suspended Solids EPA 160.2 - 100mL 72.7 2.0 mg/L 1 7100104 10/01/07 10/01/07 10/02/07 15:45 C-2 OTO9309-06 (Water) Result Limit Units Dilution Batch Prepared Analyzed Notes Analysis Amalysis Result Limit Units Dilution Batch Prepared Analyzed Notes Ammonia, Total EPA 350.1 0.253 0.009 mg/L 1 7100108 10/01/07 10/02/07 13:40 Nitrate-Nitrite, Total EPA 353.2 0.036 0.003 mg/L 1 7100108 10/01/07 10/02/07 17:13 Soluble Reactive Phosphate EPA 365.2 0.002 U 0.002 mg/L 1 7100102 10/01/07 10/02/07 15:13 10/02/07 15:13 Total Kjeldahl Nitrogen, Total EPA 351.2 3.48 0.08 mg/L 1 7100105 10/01/07 10/02/07 15:13 | Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 5.37 | 0.16 | mg/L | 2 | 7100102 | 10/01/07 | 10/02/07 15:13 | |
| Total Findspirotal, rotal ETA 150.5 (open) 6.52.7 6.50.6 fight 1 Frontise Forther Total Suspended Solids EPA 160.2 - 100mL 72.7 2.0 mg/L 1 7100104 10/01/07 10/01/07 10:33 C-2 O709309-06 (Water) Analysis Result Dilution Batch Prepared Analyzed Notes Analysis Result Units Dilution Batch Prepared Analyzed Notes Amalysis C-2 Analyzed Notes Analyzed Notes Analyzed Notes Analysis C-2 Analyzed Notes Analyzed Notes Analyzed Notes Analyzed 0.000 mg/L 1 7100303 10/03/07 10/03/ | Total Kjeldahl Nitrogen, Total EPA 351.2 | 11.0 | 0.32 | mg/L | 4 | 7100103 | 10/01/07 | 10/02/07 15:13 | |
| Reporting Result Units Dilution Batch Prepared Analyzed Notes Analysis Result Limit Units Dilution Batch Prepared Analyzed Notes Ammonia, Total EPA 350.1 0.253 0.009 mg/L 1 7100303 10/03/07 10/03/07 12/02/07 12:39 Soluble Reactive Phosphate EPA 353.2 0.036 0.002 mg/L 1 7100108 10/01/07 10/02/07 12:39 Soluble Reactive Phosphate EPA 355.2 0.002 U 0.002 mg/L 1 7100108 0/01/07 10/02/07 12:39 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 3.48 0.08 mg/L 1 7100102 10/01/07 10/02/07 15:13 Total Kjeldahl Nitrogen, Total EPA 351.2 6.99 0.16 mg/L 1 7100103 10/01/07 10/02/07 15:13 Total Suspended Solids EPA 160.2 - 100mL 36.4 2.0 mg/L 1 7100104 10/01/07 10/01/07 10:33 DUP O709309-07 (Water) | Total Phosphorus, Total EPA 365.3 (Spec) | 0.327 | 0.006 | mg/L | 1 | 7100105 | 10/01/07 | 10/02/07 15:45 | |
| Analysis Result Limit Units Dilution Batch Prepared Analyzed Notes Ammonia, Total EPA 350.1 0.253 0.009 mg/L 1 7100303 10/03/07 10/03/07 12/39 Nitrate-Nitrite, Total EPA 353.2 0.036 0.003 mg/L 1 7100108 10/01/07 10/02/07 12:39 Soluble Reactive Phosphate EPA 365.2 0.002 U 0.002 mg/L 1 7100108 09/28/07 09/28/07 17:15 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 3.48 0.08 mg/L 1 7100102 10/01/07 10/02/07 15:13 Total Kjeldahl Nitrogen, Total EPA 351.2 6.99 0.16 mg/L 1 7100103 10/01/07 10/02/07 15:13 Total Phosphorus, Total EPA 365.3 (Spec) 0.377 0.006 mg/L 1 7100104 10/01/07 10/02/07 15:13 Total Suspended Solids EPA 160.2 - 100mL 36.4 2.0 mg/L 1 7100104 10/01/07 10/01/07 10/01/0 | Total Suspended Solids EPA 160.2 - 100mL | 72.7 | 2.0 | mg/L | 1 | 7100104 | 10/01/07 | 10/01/07 10:33 | |
| Analysis Result Limit Units Dilution Batch Prepared Analyzed Notes Ammonia, Total EPA 350.1 0.253 0.009 mg/L 1 7100303 10/03/07 10/03/07 12/39 Nitrate-Nitrite, Total EPA 353.2 0.036 0.003 mg/L 1 7100108 10/01/07 10/02/07 12:39 Soluble Reactive Phosphate EPA 365.2 0.002 U 0.002 mg/L 1 7100108 09/28/07 09/28/07 17:15 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 3.48 0.08 mg/L 1 7100102 10/01/07 10/02/07 15:13 Total Kjeldahl Nitrogen, Total EPA 351.2 6.99 0.16 mg/L 1 7100103 10/01/07 10/02/07 15:13 Total Phosphorus, Total EPA 365.3 (Spec) 0.377 0.006 mg/L 1 7100104 10/01/07 10/02/07 15:13 Total Suspended Solids EPA 160.2 - 100mL 36.4 2.0 mg/L 1 7100104 10/01/07 10/01/07 10/01/0 | | | C-2 | | | | | | |
| Analysis Result Limit Units Dilution Batch Prepared Analyzed Notes Ammonia, Total EPA 350.1 0.253 0.009 mg/L 1 7100303 10/03/07 10/03/07 13:40 Notes Nitrate-Nitrite, Total EPA 353.2 0.036 0.003 mg/L 1 7100108 10/01/07 10/02/07 12:39 0 50 50 50 50 0.002 mg/L 1 700108 10/01/07 10/02/07 12:39 50 | | | 0709309-06 | (Water) | | | | | |
| Ammonia, Total EPA 350.1 0.253 0.009 mg/L 1 7100303 10/03/07 13:40 Nitrate-Nitrite, Total EPA 353.2 0.036 0.003 mg/L 1 7100108 10/01/07 10/02/07 12:39 Soluble Reactive Phosphate EPA 365.2 0.002 0.002 mg/L 1 7092803 09/28/07 09/28/07 17:15 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 3.48 0.08 mg/L 1 7100102 10/01/07 10/02/07 15:13 Total Kjeldahl Nitrogen, Total EPA 351.2 6.99 0.16 mg/L 2 7100103 10/01/07 10/02/07 15:13 Total Phosphorus, Total EPA 365.3 (Spec) 0.377 0.006 mg/L 1 7100105 10/01/07 10/02/07 15:45 Total Suspended Solids EPA 160.2 - 100mL 36.4 2.0 mg/L 1 7100104 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/01/07 10/0 | Analysis | Result | | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Nitrate-Nitrite, Total EPA 353.2 0.036 0.003 mg/L 1 7100108 10/01/07 10/02/07 12:39 Soluble Reactive Phosphate EPA 365.2 0.002 U 0.002 mg/L 1 7092803 09/28/07 09/28/07 17:15 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 3.48 0.08 mg/L 1 7100102 10/01/07 10/02/07 15:13 Total Kjeldahl Nitrogen, Total EPA 351.2 6.99 0.16 mg/L 2 7100103 10/01/07 10/02/07 15:13 Total Phosphorus, Total EPA 365.3 (Spec) 0.377 0.006 mg/L 1 7100105 10/01/07 10/02/07 15:45 Total Suspended Solids EPA 160.2 - 100mL 36.4 2.0 mg/L 1 7100104 10/01/07 | | 0.253 | 0.009 | mg/L | 1 | 7100303 | 10/03/07 | 10/03/07 13:40 | |
| Soluble Reactive Phosphate EPA 365.2 0.002 U 0.002 mg/L 1 7092803 09/28/07 09/28/07 17:15 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 3.48 0.08 mg/L 1 7100102 10/01/07 10/02/07 15:13 Total Kjeldahl Nitrogen, Total EPA 351.2 6.99 0.16 mg/L 2 7100103 10/01/07 10/02/07 15:13 Total Phosphorus, Total EPA 365.3 (Spec) 0.377 0.006 mg/L 1 7100105 10/01/07 10/02/07 15:45 Total Suspended Solids EPA 160.2 - 100mL 36.4 2.0 mg/L 1 7100104 10/01/07 10/01 | | 0.036 | 0.003 | - | 1 | 7100108 | 10/01/07 | 10/02/07 12:39 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 3.48 0.08 mg/L 1 7100102 10/01/07 10/02/07 15:13 Total Kjeldahl Nitrogen, Total EPA 351.2 6.99 0.16 mg/L 2 7100103 10/01/07 10/02/07 15:13 Total Phosphorus, Total EPA 365.3 (Spec) 0.377 0.006 mg/L 1 7100105 10/01/07 10/02/07 15:45 Total Suspended Solids EPA 160.2 - 100mL 36.4 2.0 mg/L 1 7100104 10/01/07 10/01/07 10:33 DUP Total Suspended Solids EPA 160.2 - 100mL 36.4 2.0 mg/L 1 7100104 10/01/07 10/01/07 10:33 DUP Total Suspended Solids EPA 160.2 - 100mL 36.4 2.0 mg/L 1 7100104 10/01/07 10/01/07 10:33 DUP Total Suspended Solids EPA 160.2 - 100mL Reporting | | 0.002 U | 0.002 | • | 1 | 7092803 | 09/28/07 | 09/28/07 17:15 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 6.99 0.16 mg/L 2 7100103 10/01/07 10/02/07 15:13 Total Phosphorus, Total EPA 365.3 (Spec) 0.377 0.006 mg/L 1 7100105 10/01/07 10/02/07 15:45 Total Suspended Solids EPA 160.2 - 100mL 36.4 2.0 mg/L 1 7100104 10/01/07 10/01/07 10:33 DUP Reporting | • | 3.48 | 0.08 | mg/L | 1 | 7100102 | 10/01/07 | 10/02/07 15:13 | |
| Total Phosphorus, Total EPA 365.3 (Spec) 0.377 0.006 mg/L 1 7100105 10/01/07 10/02/07 15:45 Total Suspended Solids EPA 160.2 - 100mL 36.4 2.0 mg/L 1 7100104 10/01/07 10/01/07 10:33 DUP 0709309-07 (Water) | , - | 6.99 | 0.16 | • | 2 | 7100103 | 10/01/07 | 10/02/07 15:13 | |
| Total Suspended Solids EPA 160.2 - 100mL 36.4 2.0 mg/L 1 7100104 10/01/07 10/01/07 10:33 DUP 0709309-07 (Water) Reporting | 3 | | 0.006 | - | 1 | 7100105 | 10/01/07 | 10/02/07 15:45 | |
| 0709309-07 (Water) Reporting | | 36.4 | 2.0 | • | 1 | 7100104 | 10/01/07 | 10/01/07 10:33 | |
| 0709309-07 (Water) Reporting | | | ווות | р | | | | | |
| | | | | | | | | | |
| | Analysis | Result | | Units | Dilution | Batch | Prepared | · · · · · · · · · · · · · · · · · · · | Notes |

| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--|---------|-------|-------|----------|---------|----------|----------------|-------|
| Ammonia, Total EPA 350.1 | 0.042 | 0.009 | mg/L | - 1 | 7100303 | 10/03/07 | 10/03/07 13:41 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.012 I | 0.003 | mg/L | 1 | 7100108 | 10/01/07 | 10/02/07 12:40 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.178 | 0.002 | mg/L | 1 | 7092803 | 09/28/07 | 09/28/07 17:15 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.71 | 0.08 | mg/L | 1 | 7100102 | 10/01/07 | 10/02/07 15:13 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 2.71 | 0.08 | mg/L | 1 | 7100103 | 10/01/07 | 10/02/07 15:13 | |
| Total Suspended Solids EPA 160.2 - 100mL | 16.0 | 2.0 | mg/L | 1 | 7100104 | 10/01/07 | 10/01/07 10:33 | |



| | DUP | |
|---|-----------------------------|----------------|
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 10/09/07 11:35 |
| Wetlands Solutions Inc. 2809 NW 161 Ct | Project: Lake Hancock | Reported: |

| | 01 | 709309-07R | E1 (Water |) | | | | |
|--|--------|--------------------|-----------|----------|---------|----------|----------------|-------|
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.00 | 0.018 | mg/L | 3 | 7100407 | 10/04/07 | 10/05/07 02:00 | |



Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609

Project: Lake Hancock

Reported: 10/09/07 11:35

QUALITY CONTROL FOR SAMPLES

Project Manager: Ron Clarke

Solids - Quality Control

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--|-------------|------------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 7100104 = Total Suspended Solid | ds EPA 160 |).2 - 100m | L | | | | | | | |
| Blank (7100104-BLK1) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Blank (7100104-BLK2) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Duplicate (7100104-DUP4) Source | e: 0709309- | 06 | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 38.2 | 2.0 | mg/L | | 36.4 | | | 5 | 20 | |
| Reference (7100104-SRM1) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 72.0 | | mg/L | 76.3 | | 94 | 80-120 | | | |

Nutrients - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|-------------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Batch 7092803 = Soluble Reactive | e Phosphate EPA | A 365.2 | | | | | | | | |
| Blank (7092803-BLK1) | | | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.002 U | 0.002 | mg/L | | | | | | | |
| Duplicate (7092803-DUP1) | Source: 0709309- | 01 | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.254 | 0.002 | mg/L | | 0.260 | | | 2 | 20 | |
| Matrix Spike (7092803-MS1) | Source: 0709309- | 02 | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.416 | | mg/L | 0.250 | 0.173 | 97 | 80-120 | | | |
| Reference (7092803-SRM1) | | | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.662 | | mg/L | 0.610 | | 109 | 80-120 | | | |
| Batch 7100102 = Total Kjeldahl | Nitrogen, Dissolv | ved EPA 3 | 51.2 | | | | | | | |
| Blank (7100102-BLK1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 35 | 1.2 0.08 U | 0.08 | mg/L | | | | | | | |
| LCS (7100102-BS1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 35 | 1.2 1.85 | 0.08 | mg/L | 2.00 | | 92 | 90-110 | | | |



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| Wetlands Solutions Inc. | | |
|-------------------------|-----------------------------|----------------|
| 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 10/09/07 11:35 |

Nutrients - Quality Control

| | | Denentin | | C | C | | 0/DEC | | | |
|--|------------------|--------------------|-------|----------------|------------------|------|----------------|-----|---|-------|
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 7100103 = Total Kjeldahl Nit | trogen, Total E | CPA 351.2 | | | | | | | | |
| Blank (7100103-BLK1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | 990 (100 - 11 - 11 - 11 - 11 - 11 - 11 - | |
| Blank (7100103-BLK2) | | | | | | | | | | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | b/11 | |
| LCS (7100103-BS2) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 1.90 | 0.08 | mg/L | 2.00 | | 95 | 90-110 | | | |
| Duplicate (7100103-DUP3) Second | ource: 0709309-(| 16 | | | | | | | | |
| Total Kieldahl Nitrogen, Total EPA 351.2 | 6.81 | 0.16 | mg/L | | 6.99 | | | 3 | 20 | |
| | | | 0 | | | | | | | |
| Batch 7100105 = Total Phosphorus | , Total EPA 36 | 5.3 (Spec) | | | | | | | | |
| Blank (7100105-BLK1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| Reference (7100105-SRM1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.105 | 0.006 | mg/L | 0.108 | | 97 | 0-200 | | | |
| Datab 7100109 - Nituata Nituita T | tal EDA 252 7 | | | | | | | | | |
| Batch 7100108 = Nitrate-Nitrite, To | Jai EFA 555.2 | | | | | | | | | |
| Blank (7100108-BLK1) | | | | | | | | | | ATTOP |
| Nitrate-Nitrite, Total EPA 353.2 | 0.004 | 0.003 | mg/L | | | | | | | CUSTb |
| Duplicate (7100108-DUP1) | ource: 0709309- | 05 | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.085 | 0.003 | mg/L | | 0.081 | | | 5 | 20 | |
| Matrix Spike (7100108-MS1) | ource: 0709309- | 02 | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.444 | 0.003 | mg/L | 0.400 | 0.017 | 107 | 90-110 | | | - |
| Reference (7100108-SRM1) | | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 1.41 | 0.003 | mg/L | 1.38 | | 102 | 0-200 | | | |
| | | | | | | | | | | |
| Reference (7100108-SRM2) | 0.000 | 0.002 | | 1.00 | | 00 | 0.200 | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.990 | 0.003 | mg/L | 1.00 | | 99 | 0-200 | | | |
| Batch 7100303 = Ammonia, Total H | EPA 350.1 | | | | | | | | | |
| Blank (7100303-BLK1) | | | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.009 U | 0.009 | mg/L | | | | | | | |
| Duplicate (7100303-DUP1) S | ource: 0709309- | 01 | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.030 | 0.009 | mg/L | | 0.030 | | | 0 | 20 | |



| Wetlands Solutions Inc. | | |
|-------------------------|-----------------------------|----------------|
| 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 10/09/07 11:35 |
| | | |

Nutrients - Quality Control

| | | D | | Q., 11., | G | | 0/DEC | | מתת | |
|--|------------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| | | | | | | | | | | |
| Batch 7100303 = Ammonia, Tota | al EPA 350.1 | | | | | | | | | |
| Matrix Spike (7100303-MS1) | Source: 0709309- | 02 | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.412 | 0.009 | mg/L | 0.400 | 0.046 | 92 | 80-120 | | | |
| Reference (7100303-SRM1) | | | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.634 | 0.009 | mg/L | 0.635 | | 100 | 90-110 | | | |
| Batch 7100407 = Total Phosphor | rus, Total EPA 3 | 65.3 (Spec) | | | | | | | | |
| Blank (7100407-BLK1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| Reference (7100407-SRM1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.096 | 0.006 | mg/L | 0.108 | | 89 | 0-200 | | | |



6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

| 2809 NW | Solutions Inc. 7 161 Ct le, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | Reported: 10/09/07 11:35 |
|---------|--|---|------------------------------------|
| | | NOTES AND DEFINITIONS | |
| S-REX | Poor matrix spike recovery; create | d reextract. | |
| D-RNG | | ns of the sample and its duplicate is low in comparison to the MDL. It is the general policy of the at this level the sample is not rerun and the data is considered acceptable. | ; |
| CUSTb | Value is 0.0035 which is less than | 0.004 | |
| CUSTa | SJRWMD spike limit is 70-130% | , so passes their specs | |
| CUST | over the curve RE extr | | |
| U | Analyte not detected at or above the | he method detection limit | |
| Ι | Analyte not detected above the pra | actical quantitation limit. | |
| NR | Not Reported | | |
| dry | Sample results reported on a dry v | weight basis | |
| RPD | Relative Percent Difference | | |
| | | | |

2

| Ъ | PROJECT: | Lake Hancock Vegetation Study | n Study | | - | | | ΗA | Z O | | CHAIN-OF-CUSTODY FORM |
|-----------------------------------|----------------------------|--|----------------|---------------|--------------|------|-------------------|------------|------------------------|-------|---|
| PROJECT MANAGER: | ANAGER: | Chris Keller | | | 1 | | 5 | int in | 2 | | |
| | PHONE: | (386) 462-9286 | | | AU# | | 7) () | Veuanu | | | |
| | FAX: | (386) 462-3196 | ~ | | K de | IS/W | 5 4 | Solutions, | CIIS | | |
| | E-MAIL: | ckeller@wetlandsolutionsinc.com | nc.com | | | | THIC. | ? | | | Page 1 of 1 |
| Α | ADDRESS: | 2809 NW 161 Court, Gainesville, FL 32609 | esville, FL 32 | 2609 | сч. | ANAL | ANALYSIS REQUESTE | REQUE | STED | | LAB: Advanced Environmental |
| TURN AROUND TIME | ND TIME: | X Standard | | Rush | | P | PRESERVATIVE | RVATIN | Ē | | Laboratories, inc. |
| Special Instructions/Comments: | ictions/Con | Iments: | a i | - | | | 3 | | 0 | | PRESERVATIVE KEY |
| | | | | | - 1 | | | | , | | m |
| No ChI a this n Ortho-P, and T | nonth. Pleas KN-Dissolv | No ChI a this month. Please use contents of brown bottle for TSS Ortho-P, and TKN-Dissolved. No samples filtered in field. | ield. | | | | • | NOX | SRP | | 1. HCL 4. Sodium Thiosulfate 2. NHO3 5. Other |
| | | | | 3.200 | · \ | | | | 260 2807 | solve | |
| Matrix: SW (Surf | face Water), (| Matrix: SW (Surface Water), GW (Ground Water), S (Soil), | P (Periphyton) | | | | | | Р -Р ⁹ , | Dise | |
| DATE | TIME | SAMPLE I. D. | MATRIX | GRAB/ COMP | | TSS | NH3 / | | Ortho | TKN - | REMARKS / ALTERNATE DESC |
| 9.27.07 | 1320 | W-1 | WS | G | | × | | | × | × | 208 ¹⁵ /cm |
| 9.27.07 | 1330 | W-2 | WS | G | | × | × | × | × | × | 208 |
| 9-27-07 | 1340 | W-3 | WS | G | | × | × | 1 | × | × | 252 |
| 9.27.07 | 1345 | W-4 | SW | ۵ م | | × | × | × | × | × | 144 |
| 9.27.07 | T b | W-5 | WS | ۵ ۱ | а — т. | × | × | × | × | × | 266 |
| 9.27.07 | 12.34 | C-2 | WS | G | · | × | × | | × | × | 289 |
| 9.27.07 | 1330 | DUP | SW | G | 4.00 | × | × | × | × | × | 208 V |
| | | | | | | | | | | | |
| | | | | | | | 4. 1 | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| RELI | RELINQUISHED BY: | | RECEIVED BY: | | | RE | RELINQUISHED BY: | SHED | B∹ | | RECEIVED BY: |
| Sinterny | 5 | Sionature | | . Je | Sinnature | | | | | - | Simature |
| Henry Brennan | 3 | Printed Name | Llanti | 2 | Printed Name | me | | | | | Printed Name |
| Wetland Solutions, Inc. | ions, Inc. | | | | | | | | | | |
| Company | | Company | | | Company | | | | | | Company |
| 9.28.07 | 1060 | 50-828 | | 2001 | | | | | | | |
| Date / I ime | | Date / Time | | | Date / Time | e | | | | | Date / Time |

Advanced Environmental Labs Inc

Advanced Environmental Labs 6815 SW Archer Rd. Gainesville, FL 32608

| Client: Wetland Solutions | Project name: La Ke Haneock |
|------------------------------|----------------------------------|
| Date/Time Rcvd: 9 28-07 1000 | Log-In request number: 0709309 |
| Received by: P(I) | Completed by: アレア |
| Coolor/Chinning Lat | |

Cooler/Shipping Information:

Courier: CAEL ZI Client CUPS CIPony Express CI FedEx CI Blue Streak CIASAP CI Other (describe):

Гуре: I Cooler □ Box □ Other (describe) <u>Used LT-1 mini temp. F.S.</u>

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

| Cooler ID | (-) | • | | • | |
|-----------------|--------------------------------|---|---|---|---|
| Temp (°C) | 3.2 | | · · | · · · · · · · · · · · · · · · · · · · | |
| Temp taken from | Temp blank Sample bottle | Temp blank Sample bottle | Temp blank | Temp blank | Temp blank |
| T | A IR gun Thermometer (enter | □ IR gun □ Thermometer (enter | Sample bottle IR gun Thermometer (enter | Sample bottle IR gun Thermometer (enter | Sample bottle IR gun Thermometer (enter |
| Wiui | ID): | ID): | ID): | ID): | ID): |

Other Information:

Any "NO" responses or discrepancies should be explained in the "Comments" section below.

| · · · · · | CHECKLIST | YES | NÔ | NA |
|-----------|--|----------|----|----|
| 1. | Were custody seals on shipping container(s) intact? | | | |
| 2. | Were custody papers properly included with samples? | | | |
| 3. | Were custody papers properly filled out (ink, signed, match labels)? | <u> </u> | | |
| 4. | Did all bottles arrive in good condition (unbroken)? | × | | |
| 5. | Were all bottle labels complete (sample #, date, signed, analysis, preservatives)? | × × | · | |
| 6. | Did the sample labels agree with the chain of custody? | A | | |
| 7. | Were correct bottles used for the tests indicated? | X | | |
| 8. | Were proper sample preservation techniques indicated on the label? | | | |
| 9. | Were samples received within holding times? | | | |
| 10. | Were all VOA vials checked for the presence of air bubbles? | | | X |
| 11. | Were there air bubbles present in the VOA vials? | | · | |
| 12. | | x | | X |
| 13. | Was the cooler temperature less than 6°C? | | | |
| 14. | Were sample pHs checked and recorded by Sample Control? | | | |
| | NOTE: VOA samples are checked by laboratory analysis | X | | · |
| 15. | Were the sample containers provided by AEL? | | | |
| 16. | Were samples accepted into the laboratory? | X | | |
| L | | 1 ^ | 1 | |

comments:



6815 SW Archer Road Gainesville, Florida 32608 (352) 377-2349 FAX (352) 395-6639

November 20, 2007

Serial: LAB-0711

Ron Clarke Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609

RE: Lake Hancock Work Order: 0710221

Enclosed are the results of analyses for samples received by the laboratory on October 18, 2007.

All data were determined in accordance with published procedures (EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Rev March 1983; and Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992). Our laboratory is certified by Florida Department of Health (FDH No. E82001).

All results were determined in accordance with NELAP requirements and in accordance with the chain of custody document unless noted in the report case narrative or data report. All data is subject to a degree of uncertainty. For a discussion of laboratory uncertainty, please contact your project manager. This analytical report must be reproduced in its entirety.

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

Sincerely,

Ben

Paul Berman Quality Assurance Manager pberman@aellab.com

Advanced Environmental Laboratories

Page 1 of 15

<u>6815 SW Archer R</u>oad Gainesville, Florida 32608 (352) 377-2349 FAX (352) 395-6639

Advanced Environmental Laboratories, Inc.

NELAC requires that any value reported be listed as having less certainty if the result is between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ). The levels shown in the table below are the laboratories MDL and LOQ. Any result reported that falls between these two values should be considered to have less certainty.

| Analyte | uruits | Method | MDL | LOQ |
|---|--------|-------------------|-------|------|
| Anmonia | mg/L | EPA 350.1 | 0.009 | 0.0 |
| Chloride | mg/L | EPA 325.2 | 0.12 | |
| Chiomium +6 | ug/L | 3500CrB, EPA 7196 | 4.5 | 7. |
| COD | mg/L | EPA 410.4 | 6.2 | 7 |
| Conductivity | uS/cm | EPA 120.1 | 9.2 | 14 |
| Cvanide | mg/L | 335 2, 9010/9014 | 0.002 | 0.00 |
| Thioride (undistilled) | mg/L | EPA 340.2 | 0.02 | 0.0 |
| Sjeldahl Nitrogen (Alpkern - CuSO4 digestion) | mg/L | EPA 351.2 | 0.08 | 0 |
| Nitrite (Spectrophotometer) | mg/L | EPA 353.3 | 0.004 | 0.00 |
| Aitrite/Nitrate | mg/L | EPA 353.2 | 0.003 | 0.00 |
| Diganic Caibon | mg/L | EPA 415.2 | 0.7 | |
| Ortho Phosphonus, Genesys II | mg/L | EPA 365.2 | 0.002 | 0.00 |
| Dissolved Silica | mg/L | EPA 370.1 | 0.05 | |
| Sulfate | mg/L | EPA 375.4 | 0.33 | |
| Total Carbon | mg/L | EPA 415.2 | 0.5 | |
| Total Phosphonus, Spec - Genesys II | mg/L | EPA 365.3 | 0.006 | 0.00 |
| Fotal Phosphonus, Alpkern | mgЛ | EPA 365.1 | 0.002 | 0.00 |
| Turbidity | NTU | EPA 180.1 | 0.03 | 0 |
| Silver | ug/L | EPA 272.2/7761 | 0.1 | 0.1 |
| <u>Fin</u> | ug/L | EPA 282.2/7871 | 1.8 | 3. |
| 4 birniraim | ug/L | EPA 200.7/6010 | 13.9 | |
| Antimony | ug/L | EPA 200.7/6010 | 2.9 | |
| Asenic | ug/L | EPA 200.7/6010 | 2.3 | |
| Barium | ug/L | EPA 200.7/6010 | 0.2 | |
| Beryllium | ue/L | EPA 200.7/6010 | 0.10 | |
| Bown | ug/L | EPA 200.7/6010 | 1.5 | |
| Cadmium | ug/L | EPA 200.7/6010 | 0.4 | |
| Calcium | mg/L | EPA 200.7/6010 | 0.02 | 0. |
| Chonium | ug/L | EPA 200.7/6010 | 0.4 | |
| Cobalt | ue/L | EPA 200.7/6010 | 0.4 | |
| Corper | ug/L | EPA 200.7/6010 | 0.4 | |
| Ircm | ug/L | EPA 200.7/6010 | 0.7 | |
| Lead | ug/L | EPA 200.7/6010 | 1.9 | |
| Magnesium | mg/L | EPA 200.7/6010 | 0,014 | 0. |
| Marganese | ug/L | EPA 200.7/6010 | 0.15 | |
| Malgalese Molyb denim | ug/L | EPA 200.7/6010 | 0.7 | |
| Nickel | ug/L | EPA 200.7/6010 | 0.7 | |
| Potas ium | mg/L | EPA 200.7/6010 | 0.006 | 0. |
| Selenium | ug/L | EPA 200.7/6010 | 2.4 | |
| Sodium | mg/L | EPA 200.7/6010 | 0.065 | (|
| Streatium | ug/L | EPA 200.7/6010 | 0.19 | |
| Thalloum | ug/L | EPA 200.7/6010 | 3.6 | |
| Titaminn | ug/L | EPA 200.7/6010 | 0.26 | |
| Vanadium | ug/L | EPA 200.7/6010 | 0.5 | |
| Zirc | ue/L | EPA 200.7/6010 | 1.65 | |

Serial LAB-0711

Page 2 of 15



Advanced Environmental Laboratories, Inc.

6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

Wetlands Solutions Inc. Project: Lake Hancock **Reported:** 2809 NW 161 Ct 11/20/07 10:49 Gainesville, FL 32609 Project Manager: Ron Clarke **ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| W - 1 | 0710221-01 | Water | 10/17/07 13:40 | 10/18/07 09:20 |
| W - 2 | 0710221-02 | Water | 10/17/07 13:46 | 10/18/07 09:20 |
| W - 3 | 0710221-03 | Water | 10/17/07 13:55 | 10/18/07 09:20 |
| W - 4 | 0710221-04 | Water | 10/17/07 14:04 | 10/18/07 09:20 |
| W - 5 | 0710221-05 | Water | 10/17/07 16:53 | 10/18/07 09:20 |
| C-2 | 0710221-06 | Water | 10/17/07 13:10 | 10/18/07 09:20 |
| DUP | 0710221-07 | Water | 10/17/07 14:04 | 10/18/07 09:20 |
| W-1 | 0710221-08 | Soil | 10/17/07 14:30 | 10/18/07 09:20 |
| W-2 | 0710221-09 | Soil | 10/17/07 14:48 | 10/18/07 09:20 |
| W-3 | 0710221-10 | Soil | 10/17/07 15:00 | 10/18/07 09:20 |
| W-4 | 0710221-11 | Soil | 10/17/07 15:25 | 10/18/07 09:20 |
| C-1 | 0710221-12 | Soil | 10/17/07 16:05 | 10/18/07 09:20 |
| C-2 | 0710221-13 | Soil | 10/17/07 15:50 | 10/18/07 09:20 |



6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | Reported: 11/20/07 10:49 |
|--|--|------------------------------------|
| | | |

REPORT OF RESULTS

W - 1 0710221-01 (Water)

| | | Reporting | | | | | | |
|--|---------|-----------|-------|----------|---------|----------|----------------|-------|
| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.181 | 0.009 | mg/L | 1 | 7110710 | 11/07/07 | 11/07/07 15:57 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.022 | 0.003 | mg/L | 1 | 7110707 | 11/07/07 | 11/09/07 14:27 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.008 I | 0.002 | mg/L | 1 | 7101813 | 10/18/07 | 10/18/07 17:00 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.70 | 0.08 | mg/L | 1 | 7102914 | 10/29/07 | 10/30/07 12:06 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 3.46 | 0.08 | mg/L | 1 | 7102606 | 10/26/07 | 10/30/07 12:06 | |
| Total Suspended Solids EPA 160.2 - 100mL | 44.0 | 2.0 | mg/L | 1 | 7102410 | 10/24/07 | 10/24/07 10:52 | |
| | | | | | | | | |

W - 1 0710221-01RE1 (Water)

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--|--------|--------------------|-------|----------|---------|----------|----------------|-------|
| Total Phosphorus, Total EPA 365.3 (Spec) | 2.28 | 0.060 | mg/L | 10 | 7102912 | 10/29/07 | 10/30/07 14:00 | |

W - 2

0710221-02 (Water)

| | | Reporting | | | | | | |
|--|--------|-----------|-------|----------|---------|----------|----------------|-------|
| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.166 | 0.009 | mg/L | 1 | 7110710 | 11/07/07 | 11/07/07 15:58 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.020 | 0.003 | mg/L | 1 | 7110707 | 11/07/07 | 11/09/07 14:18 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.211 | 0.002 | mg/L | 1 | 7101813 | 10/18/07 | 10/18/07 17:00 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.47 | 0.08 | mg/L | 1 | 7102914 | 10/29/07 | 10/30/07 12:06 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 2.67 | 0.08 | mg/L | 1 | 7102606 | 10/26/07 | 10/30/07 12:06 | |
| Total Suspended Solids EPA 160.2 - 100mL | 12.0 | 2.0 | mg/L | 1 | 7102410 | 10/24/07 | 10/24/07 10:52 | |

W - 2

0710221-02RE1 (Water)

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--|--------|--------------------|-------|----------|---------|----------|----------------|-------|
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.824 | 0.012 | mg/L | 2 | 7102912 | 10/29/07 | 10/30/07 14:00 | |



6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001 :

| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | | | | | | Reported: 11/20/07 10:49 | | |
|--|--|---------------------|---------|----------|---------|----------|------------------------------------|-------|--|
| | | W - 3 0710221-03 | | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes | |
| Ammonia, Total EPA 350.1 | 0.024 I | 0.009 | mg/L | 1 | 7110710 | 11/07/07 | 11/07/07 16:04 | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.017 | 0.003 | mg/L | 1 | 7110707 | 11/07/07 | 11/09/07 14:21 | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.371 | 0.002 | mg/L | 1 | 7101813 | 10/18/07 | 10/18/07 17:00 | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.83 | 0.08 | mg/L | 1 | 7102914 | 10/29/07 | 10/30/07 12:06 | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 1.21 | 0.08 | mg/L | 1 | 7102606 | 10/26/07 | 10/30/07 12:06 | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.612 | 0.006 | mg/L | 1 | 7102502 | 10/25/07 | 10/26/07 15:00 | | |
| Total Suspended Solids EPA 160.2 - 100mL | 5.0 I | 2.0 | mg/L | 1 | 7102410 | 10/24/07 | 10/24/07 10:52 | | |
| | | W - 4 | 4 | | | | | | |
| | | 0710221-04 | (Water) | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes | |

| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--|--------|------------|-------|----------|---------|----------|----------------|-------|
| Ammonia, Total EPA 350.1 | 0.045 | 0.009 | mg/L | 1 | 7110710 | 11/07/07 | 11/07/07 16:05 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.023 | 0.003 | mg/L | 1 | 7110707 | 11/07/07 | 11/09/07 14:22 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.262 | 0.002 | mg/L | 1 | 7101813 | 10/18/07 | 10/18/07 17:00 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.59 | 0.08 | mg/L | 1 | 7102914 | 10/29/07 | 10/30/07 12:06 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 2.09 | 0.08 | mg/L | 1 | 7102606 | 10/26/07 | 10/30/07 12:06 | |
| Total Suspended Solids EPA 160.2 - 100mL | 13.0 | 2.0 | mg/L | 1 | 7102410 | 10/24/07 | 10/24/07 10:52 | |
| | | W - | 4 | | | | | |

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--|--------|--------------------|-------|----------|---------|----------|----------------|-------|
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.09 | 0.012 | mg/L | 2 | 7102912 | 10/29/07 | 10/30/07 14:00 | |



. .

| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Proj | Project: La ect Manager: R | ake Hancock on Clarke | Σ. | | | Rеро 11/20/07 | |
|--|-----------------|-------------------------------|--------------------------|----------|---------|----------|-------------------------|-------------|
| | | W - : | | | | | | |
| | | 0710221-05 | (water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.205 | 0.009 | mg/L | 1 | 7110710 | 11/07/07 | 11/07/07 16:00 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.051 | 0.003 | mg/L | 1 | 7110707 | 11/07/07 | 11/09/07 14:23 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.002 I | 0.002 | mg/L | 1 | 7101813 | 10/18/07 | 10/18/07 17:00 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 4.33 | 0.08 | mg/L | 1 | 7102914 | 10/29/07 | 10/30/07 12:06 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.387 | 0.006 | mg/L | 1 | 7102502 | 10/25/07 | 10/26/07 15:00 | |
| Total Suspended Solids EPA 160.2 - 100mL | 98.6 | 2.0 | mg/L | 1 | 7102410 | 10/24/07 | 10/24/07 10:52 | |
| | | W - : | 5 | | | | | |
| | (| 0710221-05RI | E1 (Water) | 1 | | | | 104.216.018 |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 10.2 | 0.32 | mg/L | 4 | 7110202 | 11/02/07 | 11/05/07 13:40 | |
| | | C-2 | | | | | | |
| | | 0710221-06 | (Water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.115 | 0.009 | mg/L | 1 | 7110710 | 11/07/07 | 11/07/07 16:02 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.00 7 I | 0.003 | mg/L | 1 | 7110707 | 11/07/07 | 11/09/07 14:24 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.00 7 I | 0.002 | mg/L | 1 | 7101813 | 10/18/07 | 10/18/07 17:00 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.42 | 0.08 | mg/L | 1 | 7102914 | 10/29/07 | 10/30/07 12:06 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 4.79 | 0.08 | mg/L | 1 | 7102606 | 10/26/07 | 10/30/07 12:06 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.316 | 0.006 | mg/L | 1 | 7102502 | 10/25/07 | 10/26/07 15:00 | |
| Total Suspended Solids EPA 160.2 - 100mL | 14.0 | 2.0 | mg/L | 1 | 7102410 | 10/24/07 | 10/24/07 10:52 | |



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Proje | Project: I ect Manager: I | Lake Hancock Ron Clarke | | | | Rеро 11/20/07 | |
|--|---------|------------------------------|----------------------------|---------------|---------|----------|-------------------------|-------|
| | | DU | - | | | | | |
| - | | 0710221-07 | (Water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.049 | 0.009 | mg/L | 1 | 7110710 | 11/07/07 | 11/07/07 16:11 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.009 I | 0.003 | mg/L | 1 | 7110707 | 11/07/07 | 11/09/07 14:25 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.370 | 0.002 | mg/L | 1 | 7101813 | 10/18/07 | 10/18/07 17:00 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.54 | 0.08 | mg/L | 1 | 7102914 | 10/29/07 | 10/30/07 12:06 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 1.95 | 0.08 | mg/L | 1 | 7102606 | 10/26/07 | 10/30/07 12:06 | |
| Total Suspended Solids EPA 160.2 - 100mL | 20.0 | 2.0 | mg/L | 1 | 7102410 | 10/24/07 | 10/24/07 10:52 | |
| | (| DU 0710221-07R | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.09 | 0.012 | mg/L | 2 | 7102912 | 10/29/07 | 10/30/07 14:00 | |
| | | W | -1 | | | | | |
| | | 0710221- | 08 (Soil) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Sediment EPA 6010B (ICP) | 58600 | 206 | mg/kg dry | 1 | 7102918 | 10/29/07 | 11/02/07 13:49 | |
| Calcium Sediment EPA 6010B (ICP) | 108000 | 0.11 | mg/kg dry | 1 | 7102918 | 10/29/07 | 11/02/07 13:49 | |
| Iron Sediment EPA 6010B (ICP) | 29300 | 5.7 | mg/kg dry | 1 | 7102918 | 10/29/07 | 11/02/07 13:49 | |
| Phosphorus, Inorganic in Sediment | 41.4 | 0.9 | mg/kg dry | 1 | 7111312 | 11/13/07 | 11/13/07 19:45 | |
| Solids, Dry Weight | 55.0 | 0.1 | % by Weight | 1 | 7102407 | 10/24/07 | 10/24/07 10:24 | |
| Subcontracted Analyses | | Sample was su | bcontracted. Plea | ase see attac | - | | 10/01/07 10 00 | |
| Sulfate, Total EPA 375.4 | 199 | 40 | mg/kg dry | 4 | 7103103 | 10/31/07 | 10/31/07 10:00 | |



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | | | | | | Reported: 11/20/07 10:49 | |
|--|--|--------------------|-------------------|---------------|-------------|----------|------------------------------------|-------|
| | | W- 0710221-(| | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Sediment EPA 6010B (ICP) | 69300 | 205 | mg/kg dry | 1 | 7102918 | 10/29/07 | 11/02/07 13:58 | |
| Calcium Sediment EPA 6010B (ICP) | 128000 | 0.11 | mg/kg dry | 1 | 7102918 | 10/29/07 | 11/02/07 13:58 | |
| Iron Sediment EPA 6010B (ICP) | 30100 | 5.7 | mg/kg dry | 1 | 7102918 | 10/29/07 | 11/02/07 13:58 | |
| Phosphorus, Inorganic in Sediment | 39.0 | 1.1 | mg/kg dry | 1 | 7111312 | 11/13/07 | 11/13/07 19:45 | |
| Solids, Dry Weight | 46.7 | 0.1 | % by Weight | 1 | 7102407 | 10/24/07 | 10/24/07 10:24 | |
| Subcontracted Analyses | | Sample was su | bcontracted. Plea | se see attacl | ned report. | | | |
| Sulfate, Total EPA 375.4 | 1260 U | 1260 | mg/kg dry | 32 | 7103103 | 10/31/07 | 10/31/07 10:00 | |
| | | W- 0710221- | | | | | | |
| Analysis | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Sediment EPA 6010B (ICP) | 76100 | 268 | mg/kg dry | 1 | 7102918 | 10/29/07 | 11/02/07 14:08 | |
| Calcium Sediment EPA 6010B (ICP) | 86100 | 0.15 | mg/kg dry | 1 | 7102918 | 10/29/07 | 11/02/07 14:08 | |
| Iron Sediment EPA 6010B (ICP) | 28600 | 7.4 | mg/kg dry | 1 | 7102918 | 10/29/07 | 11/02/07 14:08 | |
| Phosphorus, Inorganic in Sediment | 34.1 | 1.1 | mg/kg dry | 1 | 7111312 | 11/13/07 | 11/13/07 19:45 | |
| Solids, Dry Weight | 47.6 | 0.1 | % by Weight | 1 | 7102407 | 10/24/07 | 10/24/07 10:24 | |
| Subcontracted Analyses | | Sample was su | bcontracted. Plea | ase see attac | hed report. | | | |
| Sulfate, Total EPA 375.4 | 372 U | 372 | mg/kg dry | 10 | 7103103 | 10/31/07 | 10/31/07 10:00 | |
| | | W | -4 | | | | | |
| | | 0710221 | -11 (Soil) | | | | | |
| | | Reporting | T | DH (1 | Dotah | Proparad | Analyzed | Notes |

| | | Reporting | | | | | | |
|-----------------------------------|--------|---------------|-------------------|---------------|-------------|----------|----------------|-------|
| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Sediment EPA 6010B (ICP) | 69400 | 165 | mg/kg dry | 1 | 7102918 | 10/29/07 | 11/02/07 14:18 | |
| Calcium Sediment EPA 6010B (ICP) | 131000 | 0.09 | mg/kg dry | 1 | 7102918 | 10/29/07 | 11/02/07 14:18 | |
| Iron Sediment EPA 6010B (ICP) | 22200 | 4.6 | mg/kg dry | 1 | 7102918 | 10/29/07 | 11/02/07 14:18 | |
| Phosphorus, Inorganic in Sediment | 31.8 | 0.9 | mg/kg dry | 1 | 7111312 | 11/13/07 | 11/13/07 19:45 | |
| Solids, Dry Weight | 53.3 | 0.1 | % by Weight | 1 | 7102407 | 10/24/07 | 10/24/07 10:24 | |
| Subcontracted Analyses | | Sample was su | bcontracted. Plea | ise see attac | hed report. | | | |
| Sulfate, Total EPA 375.4 | 1020 | 72 | mg/kg dry | 4 | 7103103 | 10/31/07 | 10/31/07 10:00 | |
| | | | | | | | | |



7103103 10/31/07 10/31/07 10:00

| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Proj | Reported: 11/20/07 10:49 | | | | | | |
|--|--------|------------------------------------|-------------------|---------------|-------------|----------|----------------|-------|
| | | C- 0710221- | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Sediment EPA 6010B (ICP) | 59200 | 214 | mg/kg dry | 1 | 7102918 | 10/29/07 | 11/02/07 14:27 | |
| Calcium Sediment EPA 6010B (ICP) | 109000 | 0.12 | mg/kg dry | 1 | 7102918 | 10/29/07 | 11/02/07 14:27 | |
| Iron Sediment EPA 6010B (ICP) | 22400 | 5.9 | mg/kg dry | 1 | 7102918 | 10/29/07 | 11/02/07 14:27 | |
| Phosphorus, Inorganic in Sediment | 37.3 | 0.8 | mg/kg dry | 1 | 7111312 | 11/13/07 | 11/13/07 19:45 | |
| Solids, Dry Weight | 63.2 | 0.1 | % by Weight | 1 | 7102407 | 10/24/07 | 10/24/07 10:24 | |
| Subcontracted Analyses | | Sample was su | bcontracted. Plea | se see attac | hed report. | | | |
| Sulfate, Total EPA 375.4 | 30 U | 30 | mg/L | 1 | 7103103 | 10/31/07 | 10/31/07 10:00 | |
| | | C | -2 | | | | | |
| | | 0710221- | ·13 (Soil) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Sediment EPA 6010B (ICP) | 98900 | 159 | mg/kg dry | 1 | 7102918 | 10/29/07 | 11/02/07 14:37 | |
| Calcium Sediment EPA 6010B (ICP) | 92800 | 0.09 | mg/kg dry | 1 | 7102918 | 10/29/07 | 11/02/07 14:37 | |
| Iron Sediment EPA 6010B (ICP) | 24500 | 4.4 | mg/kg dry | 1 | 7102918 | 10/29/07 | 11/02/07 14:37 | |
| Phosphorus, Inorganic in Sediment | 31.4 | 0.9 | mg/kg dry | 1 | 7111312 | 11/13/07 | 11/13/07 19:45 | |
| Solids, Dry Weight | 55.1 | 0.1 | % by Weight | 1 | 7102407 | 10/24/07 | 10/24/07 10:24 | |
| Subcontracted Analyses | | Sample was su | bcontracted. Plea | ase see attac | hed report. | | | |

137 U

137

mg/kg dry

4

Sulfate, Total EPA 375.4

Page 9 of 15



Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609

Project: Lake Hancock

Reported: 11/20/07 10:49

Project Manager: Ron Clarke

QUALITY CONTROL FOR SAMPLES

Solids - Quality Control

| | | | - • | | | | | | | |
|--|-------------------|--------------------|---------------|----------------|------------------|------|----------------|-----|--------------|-------|
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| | | | | | | | | | | |
| Batch 7102407 = Solids, Dry Weigh | it | | | | | | | | | |
| Blank (7102407-BLK1) | | | | | | | | | | |
| Solids, Dry Weight | 0.1 U | 0.1 | % by Weight | | | | | | | |
| Duplicate (7102407-DUP3) | Source: 0710221-0 | 08 | | | | | | | | |
| Solids, Dry Weight | 53.8 | 0.1 | % by Weight | | 55.0 | | | 2 | 20 | |
| Batch 7102410 = Total Suspended | Solide FPA 160 2 | 2 - 100mL | | | | | | | | |
| | 501105 EI A 100.2 | - 1001112 | | | | | | | | |
| Blank (7102410-BLK1) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Blank (7102410-BLK2) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Duplicate (7102410-DUP2) | Source: 0710221- | 03 | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 6.0 | 2.0 | mg/L | | 5.0 | | | 18 | 20 | |
| Reference (7102410-SRM1) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 84.0 | | mg/L | 76.3 | | 110 | 80-120 | | | |
| | | | | | | | | | | |
| | | N T / • | | | | | | | | |
| | | Nutrie | ents - Qualit | ty Cont | rol | | | | | |
| | | | | | _ | | MARC | | סמת | |

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|--------------------|--------------------|-------|----------------|------------------|------|----------------|---------|--------------|-------|
| Batch 7101813 = Soluble Reactiv | e Phosphate EPA 3 | 65.2 | | | | | | <u></u> | | |
| Blank (7101813-BLK1) | | | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.002 U | 0.002 | mg/L | | | | | | | |
| Duplicate (7101813-DUP3) | Source: 0710221- | 05 | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.002 | 0.002 | mg/L | | 0.002 | | | 0 | 20 | |
| Matrix Spike (7101813-MS3) | Source: 0710221- | 06 | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.242 | | mg/L | 0.250 | 0.00661 | 94 | 80-120 | | | |
| Reference (7101813-SRM1) | | | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.663 | | mg/L | 0.610 | | 109 | 80-120 | | | |
| Batch 7102502 = Total Phosphor | rus, Total EPA 365 | .3 (Spec) | | | | | • | | | |



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| Wetlands Solutions Inc. 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
|---|-----------------------------|----------------|
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 11/20/07 10:49 |
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Nutrients - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|---|--------------------|-------|------------------|------------------|-------|----------------|-----|--------------|-------|
| | | | | | | | | | | |
| Batch 7102502 = Total Phosphoru | s, Total EPA 365. | s (spec) | | | | | | | | |
| Blank (7102502-BLK1) | 0.006 U | 0.006 | mg/L | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.000 0 | 0.000 | mg/L | | | | | | | |
| Duplicate (7102502-DUP3) | Source: 0710221-0 | 2 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.794 | 0.006 | mg/L | | 0.802 | | | 1 | 20 | |
| Matrix Spike (7102502-MS1) | Source: 0710221-0 | 3 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.846 | 0.006 | mg/L | 0.267 | 0.612 | 88 | 80-120 | | | |
| D. C. (7103503 SDM1) | | | | | | | | | | |
| Reference (7102502-SRM1) Total Phosphorus, Total EPA 365.3 (Spec) | 0.102 | 0.006 | mg/L | 0.108 | | 94 | 0-200 | | | |
| Total Thosphorus, Total Erre 565.5 (Spee) | 0.102 | 0.000 | | | | | | | | |
| Batch 7102606 = Total Kjeldahl N | litrogen, Total EP | A 351.2 | | | | | | | | |
| Blank (7102606-BLK1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| DI 1 (7103(0) DI 1/3) | | | | | | | | | | |
| Blank (7102606-BLK2) Total Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| Total Kjeldani Milogon, Total Erressi.2 | | | 5 | | | | | | | |
| LCS (7102606-BS1) | | 0.00 | | 2.00 | | 96 | 90-110 | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 1.92 | 0.08 | mg/L | 2.00 | | 90 | 90-110 | | | |
| LCS (7102606-BS2) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 1.83 | 0.08 | mg/L | 2.00 | | 92 | 90-110 | | | |
| Duplicate (7102606-DUP1) | Source: 0710221- | 14 | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 1.81 | 0.08 | mg/L | ann a dhan a sao | 2.09 | | | 14 | 20 | |
| | ~ | | | | | | | | | S-RE |
| Matrix Spike (7102606-MS3) | Source: 0710221- 8.51 | 0.16 | mg/L | 1.00 | 9.47 | NR | 80-120 | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 8.51 | 0.10 | ing/L | 1.00 | 2.47 | THE T | 00 120 | | | |
| Batch 7102912 = Total Phosphore | us, Total EPA 365 | .3 (Spec) | | | | | | | | |
| Blank (7102912-BLK1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| • | | | | | | | | | | |
| Reference (7102912-SRM1) | 0.100 | 0.006 | mg/L | 0.108 | | 93 | 0-200 | | - | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.100 | 0.000 | mg/L | 0.108 | | | 0 200 | | | |
| Batch 7102914 = Total Kjeldahl I | Nitrogen, Dissolve | d EPA 351. | .2 | | | | | | | |
| Blank (7102914-BLK1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 35 | 1.2 0.08 U | 0.08 | mg/L | | | | | | | |
| Tour rejoluum theogon, Dissorted 201100 | | | e | | | | | | | |



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | Reported: 11/20/07 10:49 |
|--|--|------------------------------------|
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Nutrients - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|-----------------------|--------------------|-------|----------------|------------------|------|----------------|-----|---------------------------------------|-------|
| Batch 7102914 = Total Kjeldahl Nitroge | n. Dissolved | EPA 351.2 | | | | | | | | |
| LCS (7102914-BS1) | , D155017 Cd | | | | | | | | | |
| Fotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.86 | 0.08 | mg/L | 2.00 | | 93 | 90-110 | | | |
| | 0710221 (| 2 | | | | | | | | |
| Duplicate (7102914-DUP1) Sour Fotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | ce: 0710221-0 2.51 | 0.08 | mg/L | | 2.47 | | | 2 | 20 | |
| | | | 5 | | | | | | | |
| 1 | <u>ce: 0710221-(</u> | | m a/I | 1.00 | 0.83 | 106 | 80-120 | | 088704 7 | |
| Fotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.89 | 0.08 | mg/L | 1.00 | 0.85 | 100 | 80-120 | | | |
| Batch 7110202 = Total Kjeldahl Nitroge | en, Total EP | A 351.2 | | | | | | | | |
| Blank (7110202-BLK1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| Blank (7110202-BLK2) | | | | | | | | | | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| CO (7110202 DS1) | | | | | | | | | | |
| LCS (7110202-BS1) Total Kieldahl Nitrogen, Total EPA 351.2 | 1.82 | 0.08 | mg/L | 2.00 | | 91 | 90-110 | | | |
| | | | | | | | | | | |
| LCS (7110202-BS2) | 1.00 | 0.00 | | | | 94 | 90-110 | | | ···· |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 1.89 | 0.08 | mg/L | 2.00 | | 94 | 90-110 | | | |
| Matrix Spike (7110202-MS1) Sour | ce: 0710221- | 05RE1 | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 13.8 | 0.32 | mg/L | 4.00 | 10.2 | 90 | 80-120 | | | |
| Batch 7110707 = Nitrate-Nitrite, Total 1 | EPA 353.2 | | | | | | | | | |
| | | | | | | | | | | |
| Blank (7110707-BLK1) Nitrate-Nitrite, Total EPA 353.2 | 0.003 U | 0.003 | mg/L | | | | | | | |
| | | | U | | | | | | | |
| | rce: 0710221- | | | | 0.022 | | | 10 | 20 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.020 | 0.003 | mg/L | | 0.022 | | | 10 | 20 | |
| Matrix Spike (7110707-MS1) Sour | rce: 0710221- | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.433 | 0.003 | mg/L | 0.400 | 0.020 | 103 | 90-110 | | | |
| Reference (7110707-SRM1) | | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 1.39 | 0.003 | mg/L | 1.38 | | 101 | 90-110 | | | |
| Reference (7110707-SRM2) | | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 1.04 | 0.003 | mg/L | 1.00 | | 104 | 0-200 | | · · · · · · · · · · · · · · · · · · · | |
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Advanced Environmental Laboratories, Inc. 6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001 :

| Wetlands Solutions Inc. 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
|---|-----------------------------|----------------|
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 11/20/07 10:49 |
| | | |

Nutrients - Quality Control

| | D- 14 | Reporting | | Spike | Source | | %REC | | RPD | |
|-----------------------------------|--------------------|-----------|-----------|-------|--------|------|--------|-----|-------|--------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 7110710 = Ammonia, Tota | nl EPA 350.1 | | | | | | | | | |
| Blank (7110710-BLK1) | | | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.009 U | 0.009 | mg/L | | | | | | | |
| Duplicate (7110710-DUP2) | Source: 0710221-0 | 5 | | | | | | • | | |
| Ammonia, Total EPA 350.1 | 0.210 | 0.009 | mg/L | | 0.205 | | | 2 | 20 | |
| Matrix Spike (7110710-MS2) | Source: 0710221-0 | 6 | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.506 | 0.009 | mg/L | 0.400 | 0.115 | 98 | 80-120 | | | |
| Reference (7110710-SRM1) | | | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.652 | 0.009 | mg/L | 0.635 | | 103 | 90-110 | | | |
| Batch 7111312 = Phosphorus, In | organic in Sedimen | t | | | | | | | | |
| Blank (7111312-BLK1) | | | | | | | | | | |
| Phosphorus, Inorganic in Sediment | 0.5 U | 0.5 | mg/kg wet | | | | | | | |
| Blank (7111312-BLK2) | | | | | | | | | | |
| Phosphorus, Inorganic in Sediment | 1.0 U | 1.0 | mg/kg wet | | | | | | | |
| LCS (7111312-BS1) | | | | | | | | | | |
| Phosphorus, Inorganic in Sediment | 6.5 | 0.2 | mg/kg wet | | | | 85-115 | | | |
| Duplicate (7111312-DUP1) | Source: 0710221-0 |)8 | | | | | | | | |
| Phosphorus, Inorganic in Sediment | 39.7 | 0.9 | mg/kg dry | | 41.4 | | | 4 | 20 | |
| Duplicate (7111312-DUP2) | Source: 0710221-0 | 19 | | | | | | | | |
| Phosphorus, Inorganic in Sediment | 39.1 | 1.1 | mg/kg dry | | 39.0 | | | 0.3 | 20 | |
| Duplicate (7111312-DUP3) | Source: 0710221-1 | 0 | | | | | | | | |
| Phosphorus, Inorganic in Sediment | 33.3 | 1.1 | mg/kg dry | | 34.1 | | | 2 | 20 | |
| Duplicate (7111312-DUP4) | Source: 0710221-1 | 1 | | | | | | | | |
| Phosphorus, Inorganic in Sediment | 29.3 | 0.9 | mg/kg dry | | 31.8 | | | 8 | 20 | |
| Duplicate (7111312-DUP5) | Source: 0710221-1 | 12 | | | | | | | | |
| Phosphorus, Inorganic in Sediment | 34.5 | 0.8 | mg/kg dry | | 37.3 | | | 8 | 20 | |
| Duplicate (7111312-DUP6) | Source: 0710221-1 | 13 | | | | | | | | |
| Phosphorus, Inorganic in Sediment | 28.7 | 0.9 | mg/kg dry | | 31.4 | | | 9 | 20 | ······ |
| | Source: 0710221- | 12 | | | | | | | | |
| Matrix Spike (7111312-MS1) | Source: 0/10221 | 14 | | | | | | | | |



| Wetlands Solutions Inc. | | |
|-------------------------|-----------------------------|----------------|
| 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 11/20/07 10:49 |
| | | |

Nutrients - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Batch 7111312 = Phosphorus, Ino | rganic in Sediment | | | | | | | | | |
| Matrix Spike Dup (7111312-MSD1) | Source: 0710221-12 | 2 | | | | | | | | |
| Phosphorus, Inorganic in Sediment | 1.3 | | mg/L | 4.00 | 0.943 | 137 | 75-125 | 0 | 20 | |

Minerals - Quality Control

RPD %REC Reporting Spike Source Result %REC Limits RPD Limit Notes Units Level Result Limit Analyte Batch 7103103 = Sulfate, Total EPA 375.4 Blank (7103103-BLK1) 1.00 U Sulfate, Total EPA 375.4 1.00 mg/L Reference (7103103-SRM1) 41.0 106 90-110 Sulfate, Total EPA 375.4 mg/L 38.6

Metals by EPA 6000/7000 Series Methods - Quality Control

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|-----------------------------------|------------------|-----------|-----------|-------|--------|------|--------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 7102918 = ICP Metals | | | | | | | | | | |
| Blank (7102918-BLK1) | - | | | | | | | | | |
| Iron Sediment EPA 6010B (ICP) | 0.8 | 0.1 | mg/kg wet | | | | | | | PB-10 |
| Calcium Sediment EPA 6010B (ICP) | 3.34 | 0.002 | mg/kg wet | | | | | | | PB-10 |
| Aluminum Sediment EPA 6010B (ICP) | 3.6 U | 3.6 | mg/kg wet | | | | | | | |
| LCS (7102918-BS1) | | | | | | | | | | |
| Iron Sediment EPA 6010B (ICP) | 8210 | 0.5 | mg/kg wet | 10800 | | 76 | 85-115 | | | CUST |
| Calcium Sediment EPA 6010B (ICP) | 2960 | 0.009 | mg/kg wet | 3040 | | 97 | 85-115 | | | |
| Aluminum Sediment EPA 6010B (ICP) | 6040 | 16.8 | mg/kg wet | 5810 | | 104 | 85-115 | | | |
| Duplicate (7102918-DUP1) | Source: 0710221- | -13 | | | | | | | | |
| Calcium Sediment EPA 6010B (ICP) | 90000 | 0.12 | mg/kg dry | | 92800 | | | 3 | 20 | |
| Aluminum Sediment EPA 6010B (ICP) | 105000 | 214 | mg/kg dry | | 98900 | | | 6 | 20 | |
| Iron Sediment EPA 6010B (ICP) | 24400 | 6.0 | mg/kg dry | | 24500 | | | 0.4 | 20 | |



6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

| 2809 NW | s Solutions Inc. 7 161 Ct Ile, FL 32609 | Project: L Project Manager: R | ake Hancock Ion Clarke | | Reported: 11/20/07 10:49 |
|---------|---|--|---------------------------|-------------------------|------------------------------------|
| | | NOTES AND DEF | INITIONS | | |
| S-REX | Poor matrix spike recovery; created rec | extract. | | | |
| S-CON | Poor matrix spike recovery on reextrac | t; results and recoveries confirm. | | | |
| PSIN | Poor matrix spike recovery; post diges | tion spike within acceptance criteria. | | | |
| PB-10 | Prep blank hit less than 10% of smalles | st sample value. | | | |
| D-RNG | | the sample and its duplicate is low in c ole is not rerun and the data is considered | | general policy of the l | aboratory that |
| CUSTa | Original result over the curve, diluted | esult reported. | | | |
| CUST | ERA limits 4340-17700mg/kg | | | | |
| U | Analyte not detected at or above the m | ethod detection limit | | | |
| I | Analyte not detected above the practic | al quantitation limit. | | | |
| NR | Not Reported | | | | |
| dry | Sample results reported on a dry weigh | ıt basis | | | |
| RPD | Relative Percent Difference | | | | |
| | | | | | |

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6815 SW Archer Road Gainesville, Florida 32608 (352) 377-2349 FAX (352) 395-6639

January 22, 2008

Serial: LAB-080122 81658

Ron Clarke Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 RE: Lake Hancock

Work Order: 0710221

Enclosed are the results of analyses for samples received by the laboratory on October 18, 2007.

All data were determined in accordance with published procedures (EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Rev March 1983; and Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992). Our laboratory is certified by Florida Department of Health (FDH No. E82001).

All results were determined in accordance with NELAP requirements and in accordance with the chain of custody document unless noted in the report case narrative or data report. The results relate only to the samples listed on the chain of custody. All data is subject to a degree of uncertainty. For a discussion of laboratory uncertainty, please contact your project manager. This analytical report must be reproduced in its entirety. The report pages are numbered separately from the chain of custody and any sample receipt documentation, which, if appropriate, are included in an unnumbered appendix.

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

Sincerely, an

Karen Daniels Operations Manager kdaniels@aellab.com

Advanced Environmental Laboratories



6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

Wetlands Solutions Inc.Project: Lake HancockReported:2809 NW 161 CtProject Manager: Ron Clarke01/22/08 08:16ANALYTICAL REPORT FOR SAMPLESAnalytical Reported of the sample of the sample

| W-1 | 0710221-08 | Soil | 10/17/07 14:30 | 10/18/07 09:20 |
|-----|------------|------|----------------|----------------|
| W-2 | 0710221-09 | Soil | 10/17/07 14:48 | 10/18/07 09:20 |
| W-3 | 0710221-10 | Soil | 10/17/07 15:00 | 10/18/07 09:20 |
| W-4 | 0710221-11 | Soil | 10/17/07 15:25 | 10/18/07 09:20 |
| C-1 | 0710221-12 | Soil | 10/17/07 16:05 | 10/18/07 09:20 |
| C-2 | 0710221-13 | Soil | 10/17/07 15:50 | 10/18/07 09:20 |
| | | | | |

Serial: LAB-080122 81658



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| Wetlands Solutions Inc. | | | | | | | | |
|--|--------|--------------------|-------------|----------|---------|----------|----------------|----------|
| 2809 NW 161 Ct Gainesville, FL 32609 | | | Lake Hancoc | k | | | Rep | orted: |
| Gamesvine, FL 32009 | Pro | ject Manager: | Ron Clarke | | | | 01/22/0 | 08:08:16 |
| | F | REPORT O | F RESUL | ГS | | | | |
| | | W | -1 | | | | | |
| | | 0710221- | 08 (Soil) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Phosphorus in Sediment Not NELAC certified | 46300 | 70.2 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 16:48 | Q-A, V |
| | | W | -2 | | | | | |
| | | 0710221- | 09 (Soil) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Phosphorus in Sediment Not NELAC certified | 60200 | 75.7 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 16:57 | Q-A, V |
| | | W- | -3 | | | | | |
| | | 0710221-3 | 10 (Soil) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Phosphorus in Sediment Not NELAC certified | 61200 | 65.2 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 17:07 | Q-A, V |
| | | W- | 4 | | | | | |
| | | 0710221-1 | l 1 (Soil) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Phosphorus in Sediment Not NELAC certified | 53100 | 60.9 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 17:26 | Q-A, V |
| | | C-1 | 1 | | | | | |
| | | 0710221-1 | 2 (Soil) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Phosphorus in Sediment Not NELAC certified | 52200 | 56.3 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 18:04 | Q-A, V |
| | | C-2 | 2 | | | | | |
| | | 0710221-1 | 3 (Soil) | | | | | |
| nalysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| hosphorus in Sediment Not NELAC certified | 64600 | 48.2 | mg/kg dry | | 8011411 | | 01/18/08 18:14 | Q-A, V |



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:1

Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609

Project: Lake Hancock

Reported: 01/22/08 08:16

Project Manager: Ron Clarke

QUALITY CONTROL FOR SAMPLES

Nutrients - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|-------------|--------------------|-----------|----------------|------------------|------|----------------|-----|--------------|-------|
| Batch 8011411 = Phosphorus in Sedim | ent Not NI | ELAC cer | tified | | | | | | | |
| Blank (8011411-BLK1) | | | | | | | | | | |
| Phosphorus in Sediment Not NELAC certified | 4.0 | 1.0 | mg/kg wet | | | | | | | v |
| | ce: 0710221 | -10 | | | | | | | | |
| Phosphorus in Sediment Not NELAC certified | 53700 | 78.4 | mg/kg dry | | 61200 | | | 13 | 20 | - |
| Reference (8011411-SRM1) | | | | | | | | | | |
| Phosphorus in Sediment Not NELAC certified | 2610 | 7.7 | mg/kg wet | 3070 | | 85 | 85-115 | | | |

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| | | | · · · | | | ì | | | | | wo/0710221 |
|------------------------------------|--|---|--------------------|---------------|--------------|-----------|-----------------|----------|---------|------|------------------------------|
| PRO | PROJECT: La | Lake Hancock Vegetation Study | n Study | | | | 0 | CHAIN- | - OF | S | -OF-CUSTODY FORM |
| PROJECT MANAGER: | | Chris Keller | | | į | LP | M | ったっ | 5 2 | | |
| PF | PHONE: (38 | (386) 462-9286 | | | Bur | | 7 \ 0 \ | Solution | 220 | | |
| | FAX: (38 | (386) 462-3196 | | | | NSI . | | Inc | ons, | | |
| | E-MAIL: cke | ckeller@wetlandsolutionsinc.com | nc.com | | | | | | | | Page 1 of 1 |
| ADD | ADDRESS: 28 | 2809 NW 161 Court, Gainesville, | nesville, FL 32609 | 2609 | | ANAL | ANALYSIS REQUES | EQUE | STED | | LAB: Advanced Environmental |
| TURN AROUND TIME | TIME: | X Standard | - | Rush | | Pf | PRESERVATIVE | VATIV | Ш | | Laboratories, inc. |
| Special Instructions/Comments: | ons/Comme | ents: | | | | | | \$ | | | PRESE |
| No Chl a this mon | th. Please u | No ChI a this month. Please use contents of brown bottle for TSS | ottle for TSS, | | | (N Di | | 1018 | | | 1. HCL 4. Sodium Thiosulfate |
| Ortho-P, and TKN | -Dissolved. | Ortho-P, and TKN-Dissolved. No samples filtered in field | ïeld. | | | /TK | | 94 | | | ω |
| | | | | | | / TKN | | Fe/S | ity | | |
| Matrix: SW (Surface | Water), GW | Matrix: SW (Surface Water), GW (Ground Water), S (Soil), P (Periphyton) | P (Periphyton) | | | NO | | AI / I | Dens | lids | |
| DATE T | TIME | SAMPLE I. D. | MATRIX | GRAB/ COMP | TSS | NH3 / | TP / C | Ca / | Bulk | % So | REMARKS / ALTERNATE DESC |
| 07 | 1340 | W-1 | WS | G | × | × | | | | | 2 |
| 10/17/2007 | 1346 | W-2 | WS | G | × | × | × | | | | -02 |
| 10/17/2007 | 1322 | W-3 | WS | G | × | × | × | | | | -03 |
| 10/17/2007 | 1404 | W-4 | SW | G | × | × | × | | | | しい |
| 13 | 144 1653 | W-5 | WS | G | × | × | × | | | | -05 -05 |
| \uparrow | | 2 C.2 | SW | ה ה | < > | < > | < | | | | د. مور |
| 10/17/2007 | 1420 | W-1 | S | Comp | > | > | × | × | × | × | -02 |
| | ાપ્યુ8 | W-2 | S | Comp | | | × | × | × | × | 60- |
| 10/17/2007 | 1500 | W-3 | S | Comp | | | × | × | × | × | -10 |
| 10/17/2007 | 1525 | W-4 | S | Comp | | | × | × | × | × | |
| | 1605 | C-1 | v | Comp | | | × | × | × | × | -12 |
| 10/17/2007 | 1520 | C-2 | S | Comp | | | × | × | × | × | -13 |
| RELINQU | RELINQUISHED BY: | . | RECEIVED BY: | | | REL | RELINQUISHED B | SHED | BY: | | RECEIVED BY: |
| Signature | e la | - signature LU | | | Signature | | | | | | Signature |
| Henry Brennan Printed Name | | Printed Name | llantin | 5 | Printed Name | me | | | | | Printed Name |
| Wetland Solutions, Inc. Company | s, Inc. | Company | | | Company | | | | | - | Company |
| した。18・07 Date / Time | 0920 | <i>10-1</i> そ・ のフ Date / Time | 7 6920 | | Date / Time | œ | | | | | Date / Time |
| | | | | | | | | | | | |

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Advanced Environmental Labs Inc

Advanced Environmental Labs 6815 SW Archer Rd. Gainesville, FL 32608

| Client: | Wetland | Solutions | _ Project name: | Lake Harcock | |
|-----------------|----------|-----------|------------------------|--------------|--|
| Date/Time Rcvd: | 10-18-07 | 0920 | Log-In request number: | 6710221 | |
| Received by: | PII | | Completed by: | PLTL | |
| <u> </u> | | | | | |

Cooler/Shipping Information:

Courier: □ AEL II Client □ UPS □ Pony Express □ FedEx □ Blue Streak □ ASAP □ Other (describe): _____

Type: Difference Cooler Difference Box Difference Other (describe) Used LT-1 mini temp. F.S.

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

| Cooler ID | C-) | C-2 | | | |
|-----------------------|--|--|---|--|--|
| Temp (°C) | 42 | 3.4 | | | |
| Temp taken from | Temp blankSample bottle | Temp blankSample bottle | Temp blank Sample bottle | Temp blankSample bottle | Temp blankSample bottle |
| Temp measured with | ■ IR gun □ Thermometer (enter ID): | IR gun ☐ Thermometer (enter ID): | □ IR gun □ Thermometer (enter ID): | ☐ IR gun ☐ Thermometer (enter ID): | ☐ IR gun ☐ Thermometer (enter ID): |

Other Information:

Any "NO" responses or discrepancies should be explained in the "Comments" section below.

| | CHECKLIST | YES | NO | NA |
|-----|--|-----|----|----|
| 1. | Were custody seals on shipping container(s) intact? | | | X |
| 2. | Were custody papers properly included with samples? | X | | |
| 3. | Were custody papers properly filled out (ink, signed, match labels)? | X | | |
| 4. | Did all bottles arrive in good condition (unbroken)? | X | | |
| 5. | Were all bottle labels complete (sample #, date, signed, analysis, preservatives)? | X | | |
| 6. | Did the sample labels agree with the chain of custody? | X | | |
| 7. | Were correct bottles used for the tests indicated? | X | | |
| 8. | Were proper sample preservation techniques indicated on the label? | X | | |
| 9. | Were samples received within holding times? | X | | |
| 10. | Were all VOA vials checked for the presence of air bubbles? | | | X |
| | Were there air bubbles present in the VOA vials? | | | X |
| 12. | Were samples in direct contact with wet ice? If "No," check one: NO ICE BLUE ICE | X | | |
| 13. | Was the cooler temperature less than 6°C? | X | | |
| 14. | Were sample pHs checked and recorded by Sample Control? | | | |
| | NOTE: VOA samples are checked by laboratory analysis. | X | | |
| 15. | Were the sample containers provided by AEL? | • | | |
| 16. | Were samples accepted into the laboratory? | X | | |

Comments:

C:\Documents and Settings\TWilliams\Desktop\Login Checklist.doc

MACTEC

REPORT OF SOIL TESTING

Project: Lake Hancock Vegitation Study

Project Number: 6738-03-4343-03

Client: Advanced Environmental Laboratories, Inc.

Date: October 31, 2007

As requested by Paul Berman of Advanced Environmental Laboratories, Inc., MACTEC Engineering & Consulting Inc. has completed Bulk Density with Moisture Content testing of six samples that were delivered to our Jacksonville office on October 22, 2007. The results are outlined below.

| Sample No. | Sample ID | Percent Moisture (% Wet) | Percent Moisture (% Dry) | Percent Solids | Bulk Density pcf (wet) | Bulk Density pcf (dry) |
|-------------|-----------|-----------------------------|-----------------------------|-------------------|---------------------------|---------------------------|
| 10710221-08 | W-1 | 52.7 | 111.5 | 47.3 | 90.5 | 42.8 |
| 0710221-09 | W-2 | 53.1 | 113.3 | 46.9 | 91.0 | 42.7 |
| 1710221-10 | W-3 | 54.4 | 119.2 | 45.6 | 85.4 | 39.0 |
| 0710221-11 | W-4 | 52.7 | 111.5 | 47.3 | 91.8 | 43.4 |
| 0710221-12 | C-1 | 35.8 | 55.7 | 64.2 | 72.8 | 46.8 |
| 0710221-13 | C-2 | 46.5 | 86.9 | 53.5 | 94.3 | 50.4 |

Respectfully Submitted,

Mike Holm, P.E



6815 SW Archer Road Gainesville, Florida 32608 (352) 377-2349 FAX (352) 395-6639

December 16, 2007

Serial: LAB-0712

Ron Clarke Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 RE: Lake Hancock Work Order: 0711158

Enclosed are the results of analyses for samples received by the laboratory on November 15, 2007.

All data were determined in accordance with published procedures (EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Rev March 1983; and Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992). Our laboratory is certified by Florida Department of Health (FDH No. E82001).

All results were determined in accordance with NELAP requirements and in accordance with the chain of custody document unless noted in the report case narrative or data report. All data is subject to a degree of uncertainty. For a discussion of laboratory uncertainty, please contact your project manager. This analytical report must be reproduced in its entirety.

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

Sincerely,

Paul Berman Quality Assurance Manager pberman@aellab.com

Advanced Environmental Laboratories

Page 1 of 12

NELAC requires that any value reported be listed as having less certainty if the result is between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ). The levels shown in the table below are the laboratories MDL and LOQ. Any result reported that falls between these two values should be considered to have less certainty.

| Analyte | units | Method | MDL | LOQ |
|--|--------------|-------------------|-------|------|
| Ammonia | mg/L | EPA 350.1 | 0.009 | 0.0 |
| Chloride | mg/L | EPA 325.2 | 0.12 | |
| Chromium +6 | ug/L | 3500CrB, EPA 7196 | 4.5 | 7 |
| COD | mg/L | EPA 410.4 | 6.2 | 7 |
| Conductivity | uS/cm | EPA 120.1 | 9.2 | 14 |
| Cyanide | mg/L | 335.2, 9010/9014 | 0.002 | 0.0 |
| Fluoride (undistilled) | mg/L | EPA 340.2 | 0.02 | 0. |
| Kjeldahl Nitrogen (Alpkem - CuSO4 digestion) | mg/L | EPA 351.2 | 0.08 | C |
| Nitrite (Spectrophotometer) | mg/L | EPA 353.3 | 0.004 | 0.0 |
| Nitrite/Nitrate | mg/L | EPA 353.2 | 0.003 | 0.0 |
| Organic Carbon | mg/L | EPA 415.2 | 0.7 | |
| Ortho Phosphorus, Genesys II | mg/L | EPA 365.2 | 0.002 | 0.00 |
| Dissolved Silica | mg/L | EPA 370.1 | 0.05 | |
| Sulfate | mg/L | EPA 375.4 | 0.33 | |
| Total Carbon | mg/L | EPA 415.2 | 0.5 | |
| Total Phosphorus, Spec - Genesys II | mg/L | EPA 365.3 | 0.006 | 0.0 |
| Total Phosphorus, Alpkem | mg/L | EPA 365.1 | 0.002 | 0.00 |
| Turbidity | NTU | EPA 180.1 | 0.03 | 0 |
| Silver | ug/L | EPA 272.2/7761 | 0.1 | 0. |
| Tin | ug/L | EPA 282.2/7871 | 1.8 | 3. |
| Aluminum | ug/L | EPA 200.7/6010 | 13.9 | |
| Antimony | ug/L | EPA 200.7/6010 | 2.9 | |
| Arsenic | ug/L | EPA 200.7/6010 | 2.3 | |
| Barium | ug/L | EPA 200.7/6010 | 0.2 | |
| Beryllium | ug/L | EPA 200.7/6010 | 0.10 | |
| Boron | ug/L | EPA 200.7/6010 | 1.5 | |
| Cadmium | ug/L | EPA 200.7/6010 | 0.4 | |
| Calcium | mg/L | EPA 200.7/6010 | 0.02 | |
| Chromium | ug/L | EPA 200.7/6010 | 0.4 | |
| Cobalt | ug/L | EPA 200.7/6010 | 0.4 | |
| Copper | ug/L | EPA 200.7/6010 | 0.4 | |
| Iron | ug/L | EPA 200,7/6010 | 0.7 | |
| Lead | ug/L | EPA 200.7/6010 | 1.9 | |
| Magnesium | mg/L | EPA 200.7/6010 | 0.014 | 0.0 |
| Manganese | ug/L | EPA 200.7/6010 | 0.15 | 0.0 |
| Molybdenum | ug/L | EPA 200.7/6010 | 0.13 | |
| Nickel | ug/L | EPA 200.7/6010 | 0.7 | |
| Potassium | mg/L | EPA 200.7/6010 | 0.006 | 0.0 |
| Selenium | ug/L | EPA 200.7/6010 | 2.4 | 0.0 |
| Sodium | mg/L | EPA 200.7/6010 | 0.065 | |
| Strontium | ug/L | EPA 200.7/6010 | 0.19 | |
| Thallium | ug/L ug/L | EPA 200.7/6010 | 3.6 | |
| Titanium | ug/L ug/L | EPA 200.7/6010 | | |
| | | | 0.26 | |
| Vanadium | ug/L | EPA 200.7/6010 | 0.5 | |
| Zinc | ug/L | EPA 200.7/6010 | 1.65 | 5 |

Serial: LAB-0712

Page 2 of 12



Advanced Environmental Laboratories, Ecc.

| 6815 SW Archer Rd |
|-------------------------------|
| Gainesville, FL 32608 |
| 352.377.2349 Phone |
| 352.395.6639 Fax |
| NELAP Certified - FDH #E82001 |
| |

| Wetlands Solutions Inc. |
|-------------------------|
| 2809 NW 161 Ct |
| Gainesville, FL 32609 |

Project: Lake Hancock Project Manager: Ron Clarke

Reported: 12/16/07 12:05

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| W - 1 | 0711158-01 | Water | 11/15/07 12:18 | 11/15/07 16:15 |
| W - 2 | 0711158-02 | Water | 11/15/07 12:23 | 11/15/07 16:15 |
| W - 3 | 0711158-03 | Water | 11/15/07 12:27 | 11/15/07 16:15 |
| W - 4 | 0711158-04 | Water | 11/15/07 12:34 | 11/15/07 16:15 |
| W - 5 | 0711158-05 | Water | 11/15/07 12:43 | 11/15/07 16:15 |
| C - 2 | 0711158-06 | Water | 11/15/07 12:37 | 11/15/07 16:15 |
| DUP | 0711158-07 | Water | 11/15/07 12:27 | 11/15/07 16:15 |



| Wetlands Solutions Inc. | | |
|-------------------------|-----------------------------|---------------------------------------|
| 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 12/16/07 12:05 |
| | | · · · · · · · · · · · · · · · · · · · |

REPORT OF RESULTS

W - 1 0711158-01 (Water)

| | Reporting | | | | | | |
|--------|---|---|--|---|---|--|---|
| Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| 0.046 | 0.009 | mg/L | 1 | 7120615 | 12/06/07 | 12/07/07 13:13 | |
| 0.035 | 0.003 | mg/L | 1 | 7112908 | 11/29/07 | 11/29/07 16:57 | |
| 0.113 | 0.002 | mg/L | 1 | 7111606 | 11/16/07 | 11/16/07 10:00 | |
| 6.99 | 0.33 | mg/L | 1 | 7111907 | 11/20/07 | 11/20/07 11:00 | |
| 2.73 | 0.08 | mg/L | 1 | 7112613 | 11/26/07 | 11/27/07 00:00 | |
| 4.68 | 0.08 | mg/L | 1 | 7112612 | 11/26/07 | 11/27/07 00:00 | |
| 43.0 | 2.0 | mg/L | 1 | 7111903 | 11/19/07 | 11/19/07 10:39 | |
| | 0.046 0.035 0.113 6.99 2.73 4.68 | 0.046 0.009 0.035 0.003 0.113 0.002 6.99 0.33 2.73 0.08 4.68 0.08 | Result Limit Units 0.046 0.009 mg/L 0.035 0.003 mg/L 0.113 0.002 mg/L 6.99 0.33 mg/L 2.73 0.08 mg/L 4.68 0.08 mg/L | Result Limit Units Dilution 0.046 0.009 mg/L 1 0.035 0.003 mg/L 1 0.113 0.002 mg/L 1 6.99 0.33 mg/L 1 2.73 0.08 mg/L 1 4.68 0.08 mg/L 1 | Result Limit Units Dilution Batch 0.046 0.009 mg/L 1 7120615 0.035 0.003 mg/L 1 7112908 0.113 0.002 mg/L 1 7111606 6.99 0.33 mg/L 1 7111907 2.73 0.08 mg/L 1 7112613 4.68 0.08 mg/L 1 7112612 | Result Limit Units Dilution Batch Prepared 0.046 0.009 mg/L 1 7120615 12/06/07 0.035 0.003 mg/L 1 7112908 11/29/07 0.113 0.002 mg/L 1 7111606 11/16/07 6.99 0.33 mg/L 1 7111907 11/20/07 2.73 0.08 mg/L 1 7112613 11/26/07 4.68 0.08 mg/L 1 7112612 11/26/07 | ResultLimitUnitsDilutionBatchPreparedAnalyzed0.0460.009mg/L1712061512/06/0712/07/07 13:130.0350.003mg/L1711290811/29/0711/29/07 16:570.1130.002mg/L1711160611/16/0711/16/07 10:006.990.33mg/L1711190711/20/0711/20/07 11:002.730.08mg/L1711261311/26/0711/27/07 00:004.680.08mg/L1711261211/26/0711/27/07 00:00 |

W - 1 0711158-01RE1 (Water)

| | | Reporting | | | | | | |
|--|--------|-----------|-------|----------|---------|----------|----------------|-------|
| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.37 | 0.030 | mg/L | 5 | 7111801 | 11/16/07 | 11/19/07 17:00 | |

W - 2

| 0711158-02 | (Water) |
|------------|---------|
|------------|---------|

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--|--------|--------------------|-------|----------|---------|----------|----------------|-------|
| Ammonia, Total EPA 350.1 | 0.039 | 0.009 | mg/L | 1 | 7120615 | 12/06/07 | 12/07/07 13:19 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.026 | 0.003 | mg/L | 1 | 7112908 | 11/29/07 | 11/29/07 16:58 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.291 | 0.002 | mg/L | 1 | 7111606 | 11/16/07 | 11/16/07 10:00 | |
| Sulfate, Total EPA 375.4 | 3.42 | 0.33 | mg/L | 1 | 7111907 | 11/20/07 | 11/20/07 11:00 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.37 | 0.08 | mg/L | 1 | 7112613 | 11/26/07 | 11/27/07 00:00 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 2.86 | 0.08 | mg/L | 1 | 7112612 | 11/26/07 | 11/27/07 00:00 | |
| Total Suspended Solids EPA 160.2 - 100mL | 5.0 I | 2.0 | mg/L | 1 | 7111903 | 11/19/07 | 11/19/07 10:39 | |

W - 2

0711158-02RE1 (Water)

| | | Reporting | | | | | | |
|--|--------|-----------|-------|----------|---------|----------|----------------|-------|
| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.10 | 0.030 | mg/L | 5 | 7111801 | 11/16/07 | 11/19/07 17:00 | |



7112626 11/27/07 11/27/07 13:00

7112612 11/26/07 11/27/07 00:00

7111903 11/19/07 11/19/07 10:39

11/26/07 11/27/07 00:00

1

1

1

1

7112613

| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Proj | Reported: 12/16/07 12:05 | | | | | | |
|--|---------|---------------------------------|---------|----------|---------|----------|----------------|------------|
| | | W - | 3 | | | ······· | | <u>,,,</u> |
| | | 0711158-03 | (Water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.020 I | 0.009 | mg/L | 1 | 7120615 | 12/06/07 | 12/07/07 13:20 | - |
| Nitrate-Nitrite, Total EPA 353.2 | 0.028 | 0.003 | mg/L | 1 | 7112908 | 11/29/07 | 11/29/07 16:59 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.384 | 0.002 | mg/L | 1 | 7111606 | 11/16/07 | 11/16/07 10:00 | |
| Sulfate, Total EPA 375.4 | 0.33 U | 0.33 | mg/L | 1 | 7111907 | 11/20/07 | 11/20/07 11:00 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.99 | 0.08 | mg/L | 1 | 7112613 | 11/26/07 | 11/27/07 00:00 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 1.36 | 0.08 | mg/L | 1 | 7112612 | 11/26/07 | 11/27/07 00:00 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.640 | 0.006 | mg/L | 1 | 7111619 | 11/16/07 | 11/17/07 12:00 | |
| Total Suspended Solids EPA 160.2 - 100mL | 10.0 | 2.0 | mg/L | 1 | 7111903 | 11/19/07 | 11/19/07 10:39 | |
| | | W - | 4 | | | | | |
| | | 0711158-04 | (Water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.009 U | 0.009 | mg/L | 1 | 7120615 | 12/06/07 | 12/07/07 13:17 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.031 | 0.003 | mg/L | 1 | 7112908 | 11/29/07 | 11/29/07 17:00 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.275 | 0.002 | mg/L | 1 | 7111606 | 11/16/07 | 11/16/07 10:00 | |
| | | | - | | | | | |

Sulfate, Total EPA 375.4 1.64 0.33 mg/L Total Kjeldahl Nitrogen, Dissolved EPA 351.2 1.50 0.08 mg/L Total Kjeldahl Nitrogen, Total EPA 351.2 1.92 0.08 mg/L Total Suspended Solids EPA 160.2 - 100mL 15.0 2.0 mg/L

W - 4 0711158-04RE1 (Water)

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--|--------|--------------------|-------|----------|---------|----------|----------------|-------|
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.01 | 0.030 | mg/L | 5 | 7111801 | 11/16/07 | 11/19/07 17:00 | |



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | | | | | | Reported: 12/16/07 12:05 | | |
|--|--|--------------------|-------|----------|---------|----------|---------------------------------|-------|--|
| | | W - 0711158-05 | | <u> </u> | 12 | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes | |
| Ammonia, Total EPA 350.1 | 0.175 | 0.009 | mg/L | 1 | 7120615 | 12/06/07 | 12/07/07 13:29 | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.073 | 0.003 | mg/L | 1 | 7112908 | 11/29/07 | 11/29/07 17:01 | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.008 1 | 0.002 | mg/L | 1 | 7111606 | 11/16/07 | 11/16/07 10:00 | | |
| Sulfate, Total EPA 375.4 | 13.9 | 0.33 | mg/L | 1 | 7112626 | 11/27/07 | 11/27/07 13:00 | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.79 | 0.08 | mg/L | 1 | 7112613 | 11/26/07 | 11/27/07 00:00 | | |
| fotal Kjeldahl Nitrogen, Total EPA 351.2 | 12.0 | 0.32 | mg/L | 4 | 7112612 | 11/26/07 | 11/27/07 00:00 | | |
| Fotal Phosphorus, Total EPA 365.3 (Spec) | 0.648 | 0.006 | mg/L | 1 | 7111619 | 11/16/07 | 11/17/07 12:00 | | |
| | 150 | 2.0 | mg/L | | 7111903 | 11/19/07 | 11/19/07 10:39 | | |

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--|---------|--------------------|-------|----------|---------|----------|----------------|-------|
| Ammonia, Total EPA 350.1 | 0.082 | 0.009 | mg/L | 1 | 7120615 | 12/06/07 | 12/07/07 13:30 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.045 | 0.003 | mg/L | 1 | 7112908 | 11/29/07 | 11/29/07 17:02 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.008 I | 0.002 | mg/L | 1 | 7111606 | 11/16/07 | 11/16/07 10:00 | |
| Sulfate, Total EPA 375.4 | 1.20 I | 0.33 | mg/L | 1 | 7112626 | 11/27/07 | 11/27/07 13:00 | |
| Fotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.72 | 0.08 | mg/L | 1 | 7112613 | 11/26/07 | 11/27/07 00:00 | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 10.0 | 0.32 | mg/L | 4 | 7112612 | 11/26/07 | 11/27/07 00:00 | |
| Fotal Phosphorus, Total EPA 365.3 (Spec) | 0.590 | 0.006 | mg/L | 1 | 7111619 | 11/16/07 | 11/17/07 12:00 | |
| Fotal Suspended Solids EPA 160.2 - 100mL | 63.3 | 2.0 | mg/L | 1 | 7111903 | 11/19/07 | 11/19/07 10:39 | |



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Proj | Веро 12/16/0 | rted: 7 12:05 | | | | | |
|--|--------|------------------------|------------------|----------|---------|----------|----------------|-------|
| | | DUI 0711158-07 | - | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.0101 | 0.009 | mg/L | 1 | 7120615 | 12/06/07 | 12/07/07 13:31 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.015 | 0.003 | mg/L | 1 | 7112908 | 11/29/07 | 11/29/07 17:09 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.410 | 0.002 | mg/L | 1 | 7111606 | 11/16/07 | 11/16/07 10:00 | |
| ulfate, Total EPA 375.4 | 0.571 | 0.33 | mg/L | 1 | 7112626 | 11/27/07 | 11/27/07 13:00 | |
| otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.00 | 0.08 | mg/L | 1 | 7112613 | 11/26/07 | 11/27/07 00:00 | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 1.41 | 0.08 | mg/L | 1 | 7112612 | 11/26/07 | 11/27/07 00:00 | |
| otal Phosphorus, Total EPA 365.3 (Spec) | 0.640 | 0.006 | mg/L | 1 | 7111619 | 11/16/07 | 11/17/07 12:00 | |
| otal Suspended Solids EPA 160.2 - 100mL | 15.0 | 2.0 | mg/L | 1 | 7111903 | 11/19/07 | 11/19/07 10:39 | |



Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609

Project: Lake Hancock

Reported: 12/16/07 12:05

QUALITY CONTROL FOR SAMPLES

Project Manager: Ron Clarke

Solids - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|--------|
| Batch 7111903 = Total Suspended Soli | ids EPA 16 | 0.2 - 100ml | | | HAL. | | | | | |
| Blank (7111903-BLK1) | ** | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | ······ |
| Blank (7111903-BLK2) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Duplicate (7111903-DUP4) Sour | ce: 0711158- | 03 | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 10.0 | 2.0 | mg/L | | 10.0 | | | 0 | 20 | |
| Reference (7111903-SRM1) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 44.0 | | mg/L | 45.5 | | 97 | 80-120 | | | |

Nutrients - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|------------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Batch 7111606 = Soluble Reactive | Phosphate EPA | A 365.2 | | | | | | | | |
| Blank (7111606-BLK1) | | | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.002 U | 0.002 | mg/L | | | | | | | |
| Duplicate (7111606-DUP1) | Source: 0711158- | 01 | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.113 | 0.002 | mg/L | | 0.113 | | | 0 | 20 | |
| Matrix Spike (7111606-MS1) | Source: 0711158- | 02 | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.541 | | mg/L | 0.250 | 0.283 | 103 | 80-120 | | | |
| Reference (7111606-SRM1) | | | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.654 | | mg/L | 0.610 | | 107 | 80-120 | | | |
| Batch 7111619 = Total Phosphoru | s, Total EPA 36 | 5.3 (Spec) | | | | | | | | |
| Blank (7111619-BLK1) | | | | | | | t | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| Reference (7111619-SRM1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.099 | 0.006 | mg/L | 0.108 | | 92 | 0-200 | | | |



| Wetlands Solutions Inc. | | |
|-------------------------|-----------------------------|----------------|
| 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 12/16/07 12:05 |

Nutrients - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|-----------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|--------------|
| Batch 7111801 = Total Phosphorus, 7 | Fotal EPA 36 | 5.3 (Spec) | | | | | | | | |
| Blank (7111801-BLK1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| Duplicate (7111801-DUP3) Sou | rce: 0711158-0 |)1RE1 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.33 | 0.030 | mg/L | | 1.37 | | | 3 | 20 | |
| Duplicate (7111801-DUP4) Sou | rce: 0711158-(|)2RE1 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.17 | 0.030 | mg/L | | 1.10 | | | 6 | 20 | |
| Duplicate (7111801-DUP5) Sou | rce: 0711158-(|)4RE1 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.01 | 0.030 | mg/L | | 1.01 | , | | 0 | 20 | |
| Matrix Spike (7111801-MS1) Sou | rce: 0711158-(| 2RE1 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 2.63 | 0.031 | mg/L | 1.33 | 1.10 | 115 | 80-120 | | | |
| Reference (7111801-SRM1) | | | | | | | | | | |
| Fotal Phosphorus, Total EPA 365.3 (Spec) | 0.101 | 0.006 | mg/L | 0.108 | ·· | 94 | 0-200 | | | |
| Batch 7112612 = Total Kjeldahl Nitro | ogen, Total E | PA 351.2 | | | | | | | | |
| Blank (7112612-BLK1) | | | | | | | | | | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| Blank (7112612-BLK2) | | | | | | | | | | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| LCS (7112612-BS1) | | | | | | | | | | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 1.83 | 0.08 | mg/L | 2.00 | | 92 | 90-110 | | | |
| LCS (7112612-BS2) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 1.85 | 0.08 | mg/L | 2.00 | | 92 | 90-110 | | | |
| Duplicate (7112612-DUP2) Sou | rce: 0711158-0 | 1 | | | | | | | | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 5.18 | 0.16 | mg/L | | 4.68 | | | 10 | 20 | |
| Matrix Spike (7112612-MS3) Sou | rce: 0711158-0 | 2 | | | | | | | | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 4.06 | 0.08 | mg/L | 1.00 | 2.86 | 120 | 80-120 | | | |
| Batch 7112613 = Total Kjeldahl Nitro | ogen. Dissolva | d EPA 35 | 12 | | | | | | | |
| | 5-11, 121330110 | u El A JJ. | 1.4 | | | | | | · ··· •· •• | . |
| Blank (7112613-BLK1) Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| Can rejereant retrogen, 1913001700 ETA 331.2 | 0.00 0 | 0.00 | படிட | | | | | | | |
| LCS (7112613-BS1) | | | | | | | | | | |



| Wetlands Solutions Inc. | | |
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| 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 12/16/07 12:05 |

Nutrients - Quality Control

| | | | | | | ······ | | | | |
|--|-------------------|--------------------|-------|----------------|------------------|--------|----------------|---------------------------------------|--------------|----------|
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 7112613 = Total Kjeldahl N | litrogen, Dissolv | ved EPA 35 | 51.2 | | | | | | | |
| LCS (7112613-BS1) | | | | | | | | | | <u> </u> |
| Total Kjeldahl Nitrogen, Dissolved EPA 351 | .2 2.07 | 0.08 | mg/L | 2.00 | | 104 | 90-110 | | | |
| Duplicate (7112613-DUP3) | Source: 0711158- | 03 | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351 | .2 1.13 | 0.08 | mg/L | | 0.99 | | | 13 | 20 | |
| Matrix Spike (7112613-MS2) | Source: 0711158- | 04 | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351 | .2 2.49 | 0.08 | mg/L | 1.00 | 1.50 | 99 | 80-120 | | | |
| Ratch 7112009 - Nituato Nituito 7 | | | | | | | | | | |
| Batch 7112908 = Nitrate-Nitrite, T | otal EPA 353.2 | | | | ······ | | | | | |
| Blank (7112908-BLK1) | | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.003 U | 0.003 | mg/L | | | | | | | |
| Duplicate (7112908-DUP4) | Source: 0711158- | 07 | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.017 | 0.003 | mg/L | | 0.015 | | | 13 | 20 | |
| Reference (7112908-SRM1) | | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 1.37 | 0.003 | mg/L | 1.38 | | 99 | 90-110 | | | |
| Reference (7112908-SRM2) | | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 1.09 | 0.003 | mg/L | 1.00 | | 109 | 0-200 | | | |
| D-4-1-7120/17 | | | Ū. | | | | 0 200 | | | |
| Batch 7120615 = Ammonia, Total | EPA 350.1 | <u></u> | | | ······ | | | | | |
| Blank (7120615-BLK1) | | | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.009 Ū | 0.009 | mg/L | | | | | | | |
| Matrix Spike (7120615-MS2) | Source: 0711158-0 | 01 | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.426 | 0.009 | mg/L | 0.400 | 0.046 | 95 | 80-120 | · · · · · · · · · · · · · · · · · · · | | |
| Reference (7120615-SRM1) | | | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.627 | 0.009 | mg/L | 0.635 | | 99 | 90-110 | | | |
| | | | | | | | | | | |

Minerals - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|---------------------------------|
| Batch 7111907 = Sulfate, Total EPA 375.4 | L | | | | | | | | | |
| Blank (7111907-BLK1) Sulfate, Total EPA 375.4 | 0.20 U | 0.20 | mg/L | | | | · | | | 1 1 2 - 1 20 - 100 - 100 1 1 |



| Wetlands Solutions Inc. | | |
|-------------------------|-----------------------------|----------------|
| 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 12/16/07 12:05 |

Minerals - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------|------------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Batch 7111907 = Sulfate, Tota | al EPA 375.4 | | | | | | | | | |
| Duplicate (7111907-DUP2) | Source: 0711158- | 03 | | | | | | | | |
| Sulfate, Total EPA 375.4 | 0.33 U | 0.33 | mg/L | | 0.33 U | | | | 20 | |
| Matrix Spike (7111907-MS2) | Source: 0711158- | 03 | | | | | | | | |
| Sulfate, Total EPA 375.4 | 11.2 | | mg/L | 10.0 | -0.142 | 113 | 85-115 | | | |
| Reference (7111907-SRM1) | | | | | | | | | | |
| Sulfate, Total EPA 375.4 | 7.65 | | mg/L | 7.37 | | 104 | 90-110 | | | |
| Batch 7112626 = Sulfate, Tota | al EPA 375.4 | | | | | | | | | |
| Blank (7112626-BLK1) | | | | | | | | | | |
| Sulfate, Total EPA 375.4 | 0.20 U | 0.20 | mg/L | | | | | | | |
| Duplicate (7112626-DUP1) | Source: 0711158- | 04 | | | | | | | | |
| Sulfate, Total EPA 375.4 | 1.26 | 0.33 | mg/L | | 1.64 | | | 26 | 20 | D-RNG |
| Matrix Spike (7112626-MS1) | Source: 0711158- | 04 | | | | | | | | |
| Sulfate, Total EPA 375.4 | 12.5 | | mg/L | 10.0 | 1.63 | 109 | 85-115 | | | |
| | | | | | | | | | | |
| Reference (7112626-SRM1) | | | | | | | | | | |



| Wetlands Solutions Inc. | | |
|-------------------------|-----------------------------|----------------|
| 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 12/16/07 12:05 |
| | | |

NOTES AND DEFINITIONS

- S-REX Poor matrix spike recovery; created reextract.
- S-CON Poor matrix spike recovery on reextract; results and recoveries confirm.
- D-RNG The difference of the concentrations of the sample and its duplicate is low in comparison to the MDL. It is the general policy of the laboratory that when the range is at this level the sample is not rerun and the data is considered acceptable.
- U Analyte not detected at or above the method detection limit
- I Analyte not detected above the practical quantitation limit.
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



6815 SW Archer Road Gainesville, Florida 32608 (352) 377-2349 FAX (352) 395-6639

December 28, 2007

Ron Clarke Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 RE: Lake Hancock Work Order: 0712016 Serial: LAB-0712

Enclosed are the results of analyses for samples received by the laboratory on December 4, 2007.

All data were determined in accordance with published procedures (EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Rev March 1983; and Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992). Our laboratory is certified by Florida Department of Health (FDH No. E82001).

All results were determined in accordance with NELAP requirements and in accordance with the chain of custody document unless noted in the report case narrative or data report. All data is subject to a degree of uncertainty. For a discussion of laboratory uncertainty, please contact your project manager. This analytical report must be reproduced in its entirety.

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

Sincerely.

Paul Berman Quality Assurance Manager pberman@aellab.com

Advanced Environmental Laboratories

Page 1 of 13

NELAC requires that any value reported be listed as having less certainty if the result is between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ). The levels shown in the table below are the laboratories MDL and LOQ. Any result reported that falls between these two values should be considered to have less certainty.

| Analyte | units | Method | MDL | LOQ |
|--|--------------|-------------------|-------|----------|
| Ammonia | mg/L | EPA 350.1 | 0.009 | 0.0 |
| Chloride | mg/L | EPA 325.2 | 0.12 | |
| Chromium +6 | ug/L | 3500CrB, EPA 7196 | 4.5 | 7 |
| COD | mg/L | EPA 410.4 | 6.2 | 7. |
| Conductivity | uS/cm | EPA 120.1 | 9.2 | 14. |
| Cyanide | mg/L | 335.2, 9010/9014 | 0.002 | 0.00 |
| Fluoride (undistilled) | mg/L | EPA 340.2 | 0.02 | 0.0 |
| Kjeldahl Nitrogen (Alpkem - CuSO4 digestion) | mg/L | EPA 351.2 | 0.08 | 0. |
| Nitrite (Spectrophotometer) | mg/L | EPA 353.3 | 0.004 | 0.00 |
| Nitrite/Nitrate | mg/L | EPA 353.2 | 0.003 | 0.00 |
| Organic Carbon | mg/L | EPA 415.2 | 0.7 | |
| Ortho Phosphorus, Genesys II | mg/L | EPA 365.2 | 0.002 | 0.00 |
| Dissolved Silica | mg/L | EPA 370.1 | 0.05 | |
| Sulfate | mg/L | EPA 375.4 | 0.33 | |
| Total Carbon | mg/L | EPA 415.2 | 0.5 | |
| Total Phosphorus, Spec - Genesys II | mg/L | EPA 365.3 | 0.006 | 0.00 |
| Total Phosphorus, Alpkem | mg/L | EPA 365.1 | 0.002 | 0.00 |
| Turbidity | NTU | EPA 180.1 | 0.03 | 0. |
| Silver | ug/L | EPA 272.2/7761 | 0.1 | 0.1 |
| Tín | ug/L | EPA 282.2/7871 | 1.8 | 3.1 |
| Aluminum | ug/L | EPA 200.7/6010 | 13.9 | 5 |
| Antimony | ug/L | EPA 200.7/6010 | 2.9 | 5 |
| Arsenic | ug/L | EPA 200.7/6010 | 2.3 | 51 |
| Barium | ug/L | EPA 200.7/6010 | 0.2 | 51 |
| Beryllium | ug/L | EPA 200.7/6010 | 0.10 | 5(|
| Boron | ug/L | EPA 200.7/6010 | 1.5 | 51 |
| Cadmium | ug/L | EPA 200.7/6010 | 0.4 | 51 |
| Calcium | mg/L | EPA 200.7/6010 | 0.02 | 0.0 |
| Chromium | ug/L | EPA 200.7/6010 | 0.4 | 5(|
| Cobalt | ug/L | EPA 200.7/6010 | 0.4 | 50 |
| Copper | ug/L | EPA 200.7/6010 | 0.4 | 5(|
| Iron | ug/L | EPA 200.7/6010 | 0.7 | 5(|
| Lead | ug/L | EPA 200.7/6010 | 1.9 | 5(|
| Magnesium | mg/L | EPA 200.7/6010 | 0.014 | 0.05 |
| Vanganese | ug/L | EPA 200.7/6010 | 0.15 | 5(|
| Molybdenum | ug/L | EPA 200.7/6010 | 0.7 | 5(|
| Nickel | ug/L | EPA 200.7/6010 | 0.7 | 5(|
| Potassium | mg/L | EPA 200.7/6010 | 0.006 | 0.05 |
| Selenium | ug/L | EPA 200.7/6010 | 2.4 | 5(|
| Sodium | mg/L | EPA 200.7/6010 | 0.065 | 0.1 |
| Strontium | ug/L | EPA 200.7/6010 | 0.19 | 5(|
| Thallium | ug/L | EPA 200.7/6010 | 3.6 | 5(|
| Fitanium | ug/L | EPA 200.7/6010 | 0.26 | 5(|
| Vanadium | ug/L ug/L | EPA 200.7/6010 | 0.26 | |
| | ······ | + | | 5(5(|
| Zinc | ug/L | EPA 200.7/6010 | 1.65 | |

Serial: LAB-0712

Page 2 of 13

| | | 6815 SW Archer Ro |
|--|--|---|
| Advanced Environmental Laboratories. In | Ĉ. | Gainesville, FL 32608 352.377.2349 Phon 352.395.6639 Fay NELAP Certified - FDH #E82001 |
| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | Reported: 12/28/07 11:49 |

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| W - 1 | 0712016-01 | Water | 12/03/07 13:57 | 12/04/07 08:50 |
| W - 2 | 0712016-02 | Water | 12/03/07 14:12 | 12/04/07 08:50 |
| W - 3 | 0712016-03 | Water | 12/03/07 14:26 | 12/04/07 08:50 |
| W - 4 | 0712016-04 | Water | 12/03/07 14:47 | 12/04/07 08:50 |
| W - 5 | 0712016-05 | Water | 12/03/07 15:45 | 12/04/07 08:50 |
| C - 2 | 0712016-06 | Water | 12/03/07 15:22 | 12/04/07 08:50 |
| DUP | 0712016-07 | Water | 12/03/07 13:57 | 12/04/07 08:50 |



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | 161 Ct Project: Lake Hancock | | | | | | | | | |
|--|------------------------------|-------------------------------|-------|----------|---------|----------|----------------|-------|--|--|
| | R | EPORT OF W - 0712016-01 | | | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes | | |
| Aluminum Total EPA 200.7/6010 (ICP) | 1040 | 13.9 | ug/L | 1 | 7120618 | 12/06/07 | 12/10/07 18:32 | | | |
| ammonia, Total EPA 350.1 | 0.026 I | 0.009 | mg/L | 1 | 7121213 | 12/12/07 | 12/13/07 15:48 | | | |
| alcium Total EPA 200.7/6010 (ICP) | 33.2 | 0.02 | mg/L | 1 | 7120618 | 12/06/07 | 12/10/07 18:32 | | | |
| ron Total EPA 200.7/6010 (ICP) | 707 | 0.7 | ug/L | I | 7120618 | 12/06/07 | 12/10/07 18:32 | | | |
| litrate-Nitrite, Total EPA 353.2 | 0.060 | 0.003 | mg/L | 1 | 7121908 | 12/19/07 | 12/19/07 15:00 | | | |
| oluble Reactive Phosphate EPA 365.2 | 0.412 | 0.002 | mg/L | I | 7120405 | 12/04/07 | 12/04/07 15:00 | | | |
| ulfate, Total EPA 375.4 | 7.38 | 0.33 | mg/L | 1 | 7120401 | 12/04/07 | 12/04/07 10:30 | | | |
| otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.37 | 0.08 | mg/L | 1 | 7121013 | 12/10/07 | 12/12/07 00:00 | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 3.57 | 0.08 | mg/L | 1 | 7120705 | 12/07/07 | 12/12/07 00:00 | | | |
| otal Phosphorus, Total EPA 365.3 (Spec) | 1.32 | 0.030 | mg/L | 5 | 7120402 | 12/10/07 | 12/11/07 15:30 | | | |
| otal Suspended Solids EPA 160.2 - 100mL | 19.0 | 2.0 | mg/L | 1 | 7120703 | 12/07/07 | 12/07/07 11:51 | | | |
| | | W - 2 | | | | | | | | |

0712016-02 (Water)

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--|--------|--------------------|-------|----------|---------|----------|----------------|-------|
| Aluminum Total EPA 200.7/6010 (ICP) | 1910 | 13.9 | ug/L | 1 | 7120618 | 12/06/07 | 12/10/07 18:41 | |
| Ammonia, Total EPA 350.1 | 0.053 | 0.009 | mg/L | 1 | 7121213 | 12/12/07 | 12/13/07 15:49 | |
| Calcium Total EPA 200.7/6010 (ICP) | 35.4 | 0.02 | mg/L | 1 | 7120618 | 12/06/07 | 12/10/07 18:41 | |
| Iron Total EPA 200.7/6010 (ICP) | 971 | 0.7 | ug/L | 1 | 7120618 | 12/06/07 | 12/10/07 18:41 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.049 | 0.003 | mg/L | 1 | 7121908 | 12/19/07 | 12/19/07 15:01 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.236 | 0.002 | mg/L | 1 | 7120405 | 12/04/07 | 12/04/07 15:00 | |
| Sulfate, Total EPA 375.4 | 10.4 | 0.33 | mg/L | 1 | 7120401 | 12/04/07 | 12/04/07 10:30 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.19 | 0.08 | mg/L | 1 | 7121013 | 12/10/07 | 12/12/07 00:00 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 6.09 | 0.16 | mg/L | 2 | 7120705 | 12/07/07 | 12/12/07 00:00 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 2.50 | 0.060 | mg/L | 10 | 7120402 | 12/10/07 | 12/11/07 15:30 | |
| Total Suspended Solids EPA 160.2 - 100mL | 58.0 | 2.0 | mg/L | 1 | 7120703 | 12/07/07 | 12/07/07 11:51 | |



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Proj | Project: L ect Manager: R | Repo 12/28/0 | | | | | |
|--|--|---|--|--------------------------------------|--|--|--|-------|
| | | W - 0712016-03 | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Total EPA 200.7/6010 (ICP) | 602 | 13.9 | ug/L | 1 | 7120618 | 12/06/07 | 12/10/07 18:51 | |
| Ammonia, Total EPA 350.1 | 0.033 I | 0.009 | mg/L | 1 | 7121213 | 12/12/07 | 12/13/07 15:50 | |
| Calcium Total EPA 200.7/6010 (ICP) | 29.9 | 0.02 | mg/L | 1 | 7120618 | 12/06/07 | 12/10/07 18:51 | |
| Iron Total EPA 200.7/6010 (ICP) | 192 | 0.7 | ug/L | 1 | 7120618 | 12/06/07 | 12/10/07 18:51 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.031 | 0.003 | mg/L | 1 | 7121908 | 12/19/07 | 12/19/07 15:02 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.397 | 0.002 | mg/L | 1 | 7120405 | 12/04/07 | 12/04/07 15:00 | |
| Sulfate, Total EPA 375.4 | 3.94 | 0.33 | mg/L | 1 | 7120401 | 12/04/07 | 12/04/07 10:30 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.88 | 0.08 | mg/L | 1 | 7121013 | 12/10/07 | 12/12/07 00:00 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 3.05 | 0.08 | mg/L | 1 | 7120705 | 12/07/07 | 12/12/07 00:00 | |
| Total Suspended Solids EPA 160.2 - 100mL | 16.0 | 2.0 | mg/L | 1 | 7120703 | 12/07/07 | 12/07/07 11:51 | |
| | 0 | W 712016-03RI | |) | anna an | | | |
| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.00 | 0.030 | mg/L | 5 | 7120402 | 12/10/07 | 12/11/07 15:30 | |
| | | W - · | 4 | | | | | |
| | | 0712016-04 | (Water) | | | | | |
| Analysis | | Reporting | | | | | | |
| | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Total EPA 200.7/6010 (ICP) | Result 1920 | | Units ug/L | Dilution 1 | Batch 7120618 | Prepared 12/06/07 | Analyzed 12/10/07 19:10 | Notes |
| | | Limit | | | | | | Notes |
| Ammonia, Total EPA 350.1 | 1920 | Limit 13.9 | ug/L | 1 | 7120618 | 12/06/07 | 12/10/07 19:10 | Notes |
| Ammonia, Total EPA 350.1 Calcium Total EPA 200.7/6010 (ICP) | 1920 0.050 | Limit 13.9 0.009 | ug/L mg/L | l 1 | 7120618 7122604 | 12/06/07 12/26/07 | 12/10/07 19:10 12/27/07 13:29 | Notes |
| Ammonia, Total EPA 350.1 Calcium Total EPA 200.7/6010 (ICP) Iron Total EPA 200.7/6010 (ICP) | 1920 0.050 24.9 | Limit 13.9 0.009 0.02 | ug/L mg/L mg/L | l 1 1 | 7120618 7122604 7120618 | 12/06/07 12/26/07 12/06/07 | 12/10/07 19:10 12/27/07 13:29 12/10/07 19:10 | Notes |
| Ammonia, Total EPA 350.1 Calcium Total EPA 200.7/6010 (ICP) Iron Total EPA 200.7/6010 (ICP) Nitrate-Nitrite, Total EPA 353.2 | 1920 0.050 24.9 698 | Limit 13.9 0.009 0.02 0.7 | ug/L mg/L mg/L ug/L | 1 1 1 | 7120618 7122604 7120618 7120618 | 12/06/07 12/26/07 12/06/07 12/06/07 | 12/10/07 19:10 12/27/07 13:29 12/10/07 19:10 12/10/07 19:10 | Notes |
| Ammonia, Total EPA 350.1 Calcium Total EPA 200.7/6010 (ICP) Iron Total EPA 200.7/6010 (ICP) Nitrate-Nitrite, Total EPA 353.2 Soluble Reactive Phosphate EPA 365.2 | 1920 0.050 24.9 698 0.022 | Limit 13.9 0.009 0.02 0.7 0.003 | ug/L mg/L mg/L ug/L mg/L | 1 1 1 1 | 7120618 7122604 7120618 7120618 7121908 | 12/06/07 12/26/07 12/06/07 12/06/07 12/19/07 | 12/10/07 19:10 12/27/07 13:29 12/10/07 19:10 12/10/07 19:10 12/19/07 15:03 | Notes |
| Ammonia, Total EPA 350.1 Calcium Total EPA 200.7/6010 (ICP) Iron Total EPA 200.7/6010 (ICP) Nitrate-Nitrite, Total EPA 353.2 Soluble Reactive Phosphate EPA 365.2 Sulfate, Total EPA 375.4 | 1920 0.050 24.9 698 0.022 0.403 | Limit 13.9 0.009 0.02 0.7 0.003 0.002 | ug/L mg/L mg/L ug/L mg/L mg/L | 1 1 1 1 1 | 7120618 7122604 7120618 7120618 7120618 7121908 7120405 | 12/06/07 12/26/07 12/06/07 12/06/07 12/19/07 12/04/07 | 12/10/07 19:10 12/27/07 13:29 12/10/07 19:10 12/10/07 19:10 12/19/07 15:03 12/04/07 15:00 | Notes |
| Aluminum Total EPA 200.7/6010 (ICP) Ammonia, Total EPA 350.1 Calcium Total EPA 200.7/6010 (ICP) Iron Total EPA 200.7/6010 (ICP) Nitrate-Nitrite, Total EPA 353.2 Soluble Reactive Phosphate EPA 365.2 Sulfate, Total EPA 375.4 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 Total Kjeldahl Nitrogen, Total EPA 351.2 | 1920 0.050 24.9 698 0.022 0.403 5.15 | Limit 13.9 0.009 0.02 0.7 0.003 0.002 0.33 | ug/L mg/L mg/L ug/L mg/L mg/L | 1 1 1 1 1 1 | 7120618 7122604 7120618 7120618 7121908 7120405 7120616 | 12/06/07 12/26/07 12/06/07 12/06/07 12/19/07 12/04/07 12/06/07 | 12/10/07 19:10 12/27/07 13:29 12/10/07 19:10 12/10/07 19:10 12/19/07 15:03 12/04/07 15:00 12/07/07 11:30 | Notes |
| Ammonia, Total EPA 350.1 Calcium Total EPA 200.7/6010 (ICP) Iron Total EPA 200.7/6010 (ICP) Nitrate-Nitrite, Total EPA 353.2 Soluble Reactive Phosphate EPA 365.2 Sulfate, Total EPA 375.4 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1920 0.050 24.9 698 0.022 0.403 5.15 2.00 | Limit 13.9 0.009 0.02 0.7 0.003 0.002 0.33 0.08 | ug/L mg/L mg/L ug/L mg/L mg/L mg/L | 1 1 1 1 1 1 1 1 | 7120618 7122604 7120618 7120618 7121908 7120405 7120616 7121013 | 12/06/07 12/26/07 12/06/07 12/06/07 12/19/07 12/04/07 12/06/07 12/10/07 | 12/10/07 19:10 12/27/07 13:29 12/10/07 19:10 12/10/07 19:10 12/19/07 15:03 12/04/07 15:00 12/07/07 11:30 12/12/07 00:00 | Notes |



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Proj | Project: L ect Manager: R | ake Hancoo ton Clarke | 1 | Reported: 12/28/07 11:49 | | | |
|--|---------|------------------------------|--------------------------|----------|------------------------------------|----------|----------------|-------|
| | | W - 0712016-05 | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Total EPA 200.7/6010 (ICP) | 470 | 13.9 | ug/L | 1 | 7120618 | 12/06/07 | 12/10/07 19:39 | |
| Ammonia, Total EPA 350.1 | 0.009 U | 0.009 | mg/L | 1 | 7122604 | 12/26/07 | 12/27/07 13:19 | |
| Calcium Total EPA 200.7/6010 (ICP) | 35.9 | 0.02 | mg/L | 1 | 7120618 | 12/06/07 | 12/10/07 19:39 | |
| Iron Total EPA 200.7/6010 (ICP) | 269 | 0.7 | ug/L | I | 7120618 | 12/06/07 | 12/10/07 19:39 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.091 | 0.003 | mg/L | 1 | 7121908 | 12/19/07 | 12/19/07 15:09 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.015 | 0.002 | mg/L | 1 | 7120405 | 12/04/07 | 12/04/07 15:00 | |
| Sulfate, Total EPA 375.4 | 15.0 | 0.33 | mg/L | 1 | 7121201 | 12/12/07 | 12/12/07 12:00 | |
| Fotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 4.04 | 0.08 | mg/L | 1 | 7121013 | 12/10/07 | 12/12/07 00:00 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 14.7 | 0.32 | mg/L | 4 | 7120708 | 12/07/07 | 12/12/07 00:00 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.520 | 0.006 | mg/L | 1 | 7120402 | 12/10/07 | 12/11/07 15:30 | |
| Total Suspended Solids EPA 160.2 - 100mL | 125 | 2.0 | mg/L | 1 | 7120703 | 12/07/07 | 12/07/07 11:51 | |
| | | C - 2 | 2 | | | | | |

0712016-06 (Water)

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--|--------|--------------------|-------|----------|---------|----------|----------------|-------|
| Aluminum Total EPA 200.7/6010 (ICP) | 1380 | 13.9 | ug/L | 1 | 7120618 | 12/06/07 | 12/10/07 19:48 | |
| Ammonia, Total EPA 350.1 | 6.51 | 0.090 | mg/L | 10 | 7122604 | 12/26/07 | 12/27/07 13:35 | |
| Calcium Total EPA 200.7/6010 (ICP) | 46.5 | 0.02 | mg/L | 1 | 7120618 | 12/06/07 | 12/10/07 19:48 | |
| Iron Total EPA 200.7/6010 (ICP) | 2110 | 0.7 | ug/L | 1 | 7120618 | 12/06/07 | 12/10/07 19:48 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.061 | 0.003 | mg/L | 1 | 7121908 | 12/19/07 | 12/19/07 15:10 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.100 | 0.002 | mg/L | 1 | 7120405 | 12/04/07 | 12/04/07 15:00 | |
| Sulfate, Total EPA 375.4 | 0.73 I | 0.33 | mg/L | 1 | 7121201 | 12/12/07 | 12/12/07 12:00 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 9.84 | 0.32 | mg/L | 4 | 7121013 | 12/10/07 | 12/27/07 11:58 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 12.2 | 0.32 | mg/L | 4 | 7120708 | 12/07/07 | 12/12/07 00:00 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 2.16 | 0.120 | mg/L | 20 | 7120402 | 12/10/07 | 12/11/07 15:30 | |
| Total Suspended Solids EPA 160.2 - 100mL | 33.3 | 2.0 | mg/L | I | 7120703 | 12/07/07 | 12/07/07 11:51 | |

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Representation

| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Proj | Reported: 12/28/07 11:49 | | | | | | |
|--|---------|------------------------------------|-------|----------|---------|----------|----------------|-------|
| | | W - | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Total EPA 200.7/6010 (ICP) | 470 | 13.9 | ug/L | 1 | 7120618 | 12/06/07 | 12/10/07 19:39 | |
| Ammonia, Total EPA 350.1 | 0.009 U | 0.009 | mg/L | 1 | 7122604 | 12/26/07 | 12/27/07 13:19 | |
| Calcium Total EPA 200.7/6010 (ICP) | 35.9 | 0.02 | mg/L | 1 | 7120618 | 12/06/07 | 12/10/07 19:39 | |
| Iron Total EPA 200.7/6010 (ICP) | 269 | 0.7 | ug/L | 1 | 7120618 | 12/06/07 | 12/10/07 19:39 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.091 | 0.003 | mg/L | 1 | 7121908 | 12/19/07 | 12/19/07 15:09 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.015 | 0.002 | mg/L | 1 | 7120405 | 12/04/07 | 12/04/07 15:00 | |
| Sulfate, Total EPA 375.4 | 15.0 | 0.33 | mg/L | 1 | 7121201 | 12/12/07 | 12/12/07 12:00 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 4.04 | 0.08 | mg/L | 1 | 7121013 | 12/10/07 | 12/12/07 00:00 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 14.7 | 0.32 | mg/L | 4 | 7120708 | 12/07/07 | 12/12/07 00:00 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.520 | 0.006 | mg/L | 1 | 7120402 | 12/10/07 | 12/11/07 15:30 | |
| Total Suspended Solids EPA 160.2 - 100mL | 125 | 2.0 | mg/L | 1 | 7120703 | 12/07/07 | 12/07/07 11:51 | |

C - 2 0712016-06 (Water)

| A - alouia | | Reporting | ¥] : 4 | T5-18 - 41 | Datab | D | 4 | Ni - 4 |
|--|--------|-----------|---------|---------------|---------|----------|----------------|--------|
| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Total EPA 200.7/6010 (ICP) | 1380 | 13.9 | ug/L | 1 | 7120618 | 12/06/07 | 12/10/07 19:48 | |
| Ammonia, Total EPA 350.1 | 6.51 | 0.090 | mg/L | 10 | 7122604 | 12/26/07 | 12/27/07 13:35 | |
| Calcium Total EPA 200.7/6010 (ICP) | 46.5 | 0.02 | mg/L | 1 | 7120618 | 12/06/07 | 12/10/07 19:48 | |
| Iron Total EPA 200.7/6010 (ICP) | 2110 | 0.7 | ug/L | 1 | 7120618 | 12/06/07 | 12/10/07 19:48 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.061 | 0.003 | mg/L | 1 | 7121908 | 12/10/07 | 10/10/201 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.100 | 0.002 | | | | | | |
| Sulfate, Total EPA 375.4 | 0.73 I | 0.3: | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 9.84 | 0.32 | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 12.2 | 0.32 | | , 6 /28 | ŝ | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 2.16 | 0.120 | | \mathcal{N} | | Å, | | |
| Total Suspended Solids EPA 160.2 - 100mL | 33.3 | 2.0 | | 5 | 10 | e / | | |

Currento QC 1/A+1/17 Borth out out The Borth out out Recurr Azepine) tablets (oxcarbazepine) tablets

Page 6 of 13



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Proj | Project: Lake Hancock Project Manager: Ron Clarke | | | | | | | | |
|--|---------|--|-------|----------|---------|----------|----------------|-------|--|--|
| | | DUI 0712016-07 | | | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes | | |
| Aluminum Total EPA 200.7/6010 (ICP) | 940 | 13.9 | ug/L | 1 | 7120618 | 12/06/07 | 12/10/07 19:58 | | | |
| Ammonia, Total EPA 350.1 | 0.020 I | 0.009 | mg/L | 1 | 7122604 | 12/26/07 | 12/27/07 13:21 | | | |
| Calcium Total EPA 200.7/6010 (ICP) | 32.3 | 0.02 | mg/L | 1 | 7120618 | 12/06/07 | 12/10/07 19:58 | | | |
| Iron Total EPA 200.7/6010 (ICP) | 681 | 0.7 | ug/L | 1 | 7120618 | 12/06/07 | 12/10/07 19:58 | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.034 | 0.003 | mg/L | I | 7121908 | 12/19/07 | 12/19/07 15:11 | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.259 | 0.002 | mg/L | 1 | 7120405 | 12/04/07 | 12/04/07 15:00 | | | |
| Sulfate, Total EPA 375.4 | 7.52 | 0.33 | mg/L | Ι | 7121201 | 12/12/07 | 12/12/07 12:00 | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.99 | 0.08 | mg/L | 1 | 7121013 | 12/10/07 | 12/12/07 00:00 | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 3.72 | 0.08 | mg/L | 1 | 7120708 | 12/07/07 | 12/12/07 00:00 | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.45 | 0.120 | mg/L | 20 | 7120402 | 12/10/07 | 12/11/07 15:30 | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 19.0 | 2.0 | mg/L | 1 | 7120703 | 12/07/07 | 12/07/07 11:51 | | | |
| | | | | | | | | | | |



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | | Project Ma | - | ke Hancock n Clarke | 5 | | | | Repor 12/28/07 | |
|--|--------------|--------------------|------------|------------------------|--|------|--|---|---|--------------|
| | QUA | LITY CO | NTROL | FOR SA | AMPLE | S | | | | |
| | | Solids · | - Quality | y Contro | | | | | | |
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 7120703 = Total Suspended Sol | ids EPA 16 | 0.2 - 100ml | | | NORMANN KING LICENSE BARBARY MANAGEMEN | | | | | |
| Blank (7120703-BLK1) | | | | , | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Blank (7120703-BLK2) Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | *10 10111111110000000000000000000000000 | |
| Blank (7120703-BLK3) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Blank (7120703-BLK4) | | | | | | | | | | ····· |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Reference (7120703-SRM1) Total Suspended Solids EPA 160.2 - 100mL | . 48.0 | | mg/L | 45.5 | | 105 | 80-120 | 147 y 27 14 14 14 14 14 14 14 14 14 14 14 14 14 | | |
| | | Nutrient | s - Quali | ity Cont | rol | | | | | |
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 7120402 = Total Phosphorus, To | otal EPA 30 | 5.3 (Spec) | ********** | | | | | | | |
| Blank (7120402-BLK1) | | | | | | | 99 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 - 199 | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| Duplicate (7120402-DUP4) Sour | ce: 0712016- | 02RE1 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 2.59 | 0.120 | mg/L | | 2.65 | | | 2 | 20 | |
| | ce: 0712016- | 03RE1 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 2.35 | 0.031 | mg/L | 1.33 | 1.00 | 102 | 80-120 | | | |
| Reference (7120402-SRM1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.105 | 0.006 | mg/L | 0.108 | | 97 | 0-200 | | | |
| Batch 7120405 = Soluble Reactive Pho | sphate EPA | \$ 365.2 | | | | | | | | |
| Blank (7120405-BLK1) Soluble Reactive Phosphate EPA 365.2 | 0 002 | 0.002 | mg/L | | , | | | | | CUST |
| Duplicate (7120405-DUP1) Sour- | ce: 0712016- | 01 | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.410 | 0.002 | mg/L | | 0.412 | | | 0.5 | 20 | |
| Serial: LAB-0712 | | | | | | | | | | Page 8 of 13 |
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| | Environmental | Laboratories, | leic. |

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| Project: Lake Hancock Project Manager: Ron Clarke | | | 16 Mary State Course State Course State Courses | Reported: 12/28/07 11:49 | | | |
|--|----------------|------------------|---|------------------------------------|----------------------------------|--|--|
| rients - Qua | lity Cont | rol | | | | | |
| ting nit Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| 2 | | | | | | | |
| mg/L | 0.250 | 0.230 | 103 | 80-120 | | | |
| mg/L | 0.610 | | 106 | 80-120 | | | |
| 51.2 | | | | | | | |
| 8 mg/L | | | | aa | | - | · · - |
| 8 mg/L | | ····· | | | | | |
| 8 mg/L | 2.00 | | 103 | 90-110 | | | |
| 8 mg/L | 2.00 | | 100 | 90-110 | | 111 1 Westerleinen französigen auf | |
| 8 mg/L | | 3.57 | | 10 1000 1546 West 110 1000 | 2 | 20 | |
| 51.2 | | | | | | | |
| 8 mg/L | | | | | | | |
| 8 mg/L | 2.00 | | 97 | 90-110 | | | n na sana ang sana a |
| 8 mg/L | | 2.88 | | | 3 | 20 | |
| 2 mg/L | 4.00 | 14.7 | 90 | 85-115 | N. T. MARY I. I. MARY M. MARY M. | Mar 17 1990 1 1990 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| PA 351.2 | | | | | | | |
| 8 mg/L | | | | | n - 147 - shirin habita | | |
| 8 mg/L | | | | | | | |
| | | | | | | | Page 9 of |
| | | | | | | | |



| Wetlands Solutions Inc. | | |
|-------------------------|-----------------------------|----------------|
| 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 12/28/07 11:49 |

Nutrients - Quality Control

| | | Reporting | ***** | Spike | Source | ar an | %REC | | RPD | |
|--|-----------------|-----------|-------|-------|--|---|--------|-----|--|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 7121013 = Total Kjeldahl Nit | trogen, Dissolv | ed EPA 35 | 51.2 | | | | | | | |
| LCS (7121013-BS1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.95 | 0.08 | mg/L | 2.00 | | 98 | 90-110 | | | |
| LCS (7121013-BS2) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.99 | 0.08 | mg/L | 2.00 | | 100 | 90-110 | | | |
| A | ource: 0712016- | 03 | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.28 | 0.08 | mg/L | | 1.88 | | | 19 | 20 | |
| | ource: 0712016- | 04 | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.11 | 0.08 | mg/L | 1.00 | 2.00 | 111 | 85-115 | | | |
| Batch 7121213 = Ammonia, Total E | 2PA 350.1 | | | | | | | | | |
| Blank (7121213-BLK1) | | | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.009 U | 0.009 | mg/L | | | | , | | | |
| Reference (7121213-SRM1) | | | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.611 | 0.009 | mg/L | 0.635 | | 96 | 90-110 | | | |
| Batch 7121908 = Nitrate-Nitrite, To | otal EPA 353.2 | | | | | 01 | | | | |
| Blank (7121908-BLK1) | | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.003 U | 0.003 | mg/L | | | | | | | |
| Reference (7121908-SRM1) | | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 1.48 | 0.003 | mg/L | 1.38 | | 107 | 90-110 | | | |
| Reference (7121908-SRM2) | | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 1.03 | 0.003 | mg/L | 1.00 | | 103 | 0-200 | | | |
| Batch 7122604 = Ammonia, Total E | PA 350.1 | | | | | | | | | |
| Blank (7122604-BLK1) | | | | | and a state of the | | | | net tervit setter en | |
| Ammonia, Total EPA 350.1 | 0.009 U | 0.009 | mg/L | | | | | | | |
| Matrix Spike (7122604-MS1) So | ource: 0712016- | 04 | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.415 | 0.009 | mg/L | 0.400 | 0.050 | 91 | 80-120 | | | |
| Reference (7122604-SRM1) | | | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.579 | 0.009 | mg/L | 0.635 | 79.007% /s. Vander | 91 | 90-110 | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |



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| Wetlands Solutions Inc. | | |
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| 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 12/28/07 11:49 |

Minerals - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|------------------|--|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Batch 7120401 = Sulfate, Tota | I EPA 375.4 | 2010/2010/00/00/00/00/00/00/00/00/00/00/00/00/ | | | | | | | | |
| Blank (7120401-BLK1) | | | | | | | | | | |
| Sulfate, Total EPA 375.4 | 0.20 U | 0.20 | mg/L | | | | | | | |
| Duplicate (7120401-DUP2) | Source: 0712016- | 03 | | | | | | | | |
| Sulfate, Total EPA 375.4 | 3.20 | 0.33 | mg/L | | 3.94 | | | 21 | 20 | D-RNG |
| Matrix Spike (7120401-MS2) | Source: 0712016- | 03 | | | | | | | | |
| Sulfate, Total EPA 375.4 | 15.8 | | mg/L | 10.0 | 3.91 | 119 | 75-125 | | | |
| Reference (7120401-SRM1) | | | | | | | | | | |
| Sulfate, Total EPA 375.4 | 7.31 | | mg/L | 7.37 | | 99 | 90-110 | | | |
| Batch 7120616 = Sulfate, Tota | I EPA 375.4 | | | | | | | | | |
| Blank (7120616-BLK1) | | | | | | | | | | |
| Sulfate, Total EPA 375.4 | 0.20 U | 0.20 | mg/L | | | | | | | |
| Blank (7120616-BLK2) | | | | | | | | | | |
| Sulfate, Total EPA 375.4 | 0.20 U | 0.20 | mg/L | | | | | | | |
| Blank (7120616-BLK3) | | | | | | | | | | |
| Sulfate, Total EPA 375.4 | 0.20 U | 0.20 | mg/L | | | | | | | |
| Duplicate (7120616-DUP2) | Source: 0712016- | 04 | | | | | | | | |
| Sulfate, Total EPA 375.4 | 4.79 | 0.33 | mg/L | | 5.15 | | *** | 7 | 20 | |
| Matrix Spike (7120616-MS2) | Source: 0712016- | 04 | | | | | | | | |
| Sulfate, Total EPA 375.4 | 16.0 | | mg/L | 10.0 | 5.10 | 109 | 80-120 | | | |
| Reference (7120616-SRM1) | | | | | | | | | | |
| Sulfate, Total EPA 375.4 | 7.47 | an Malaka da Malaka da Malaka da 2010 Manazar (m. 1990). | mg/L | 7.37 | | 101 | 90-110 | | | |
| Batch 7121201 = Sulfate, Tota | I EPA 375.4 | | | | | | | | | |
| Blank (7121201-BLK1) Sulfate, Total EPA 375.4 | 0.20 U | 0.20 | mg/L | | | | | | | |
| Reference (7121201-SRM1) | | | | | | | | | | |
| Sulfate, Total EPA 375.4 | 7.69 | | mg/L | 7.37 | | 104 | 90-110 | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |



| Wetlands Solutions Inc. | | |
|-------------------------|-----------------------------|----------------|
| 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 12/28/07 11:49 |

Metals by EPA 200 Series Methods - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------------|------------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Batch 7120618 = ICP Metals | | | | | | | | | | |
| Blank (7120618-BLK1) | | | | | | | | | | |
| Aluminum Total EPA 200.7/6010 (ICP) | 13.9 U | 13.9 | ug/L | | | | | | - | |
| Calcium Total EPA 200.7/6010 (ICP) | 0102 U | 0.02 | mg/L | | | | | | | |
| Iron Total EPA 200.7/6010 (ICP) | 0.7 U | 0.7 | ug/L | | | | | | | |
| LCS (7120618-BS1) | | | | | | | | | | |
| Iron Total EPA 200.7/6010 (ICP) | 102 | 0.7 | ug/L | 100 | | 102 | 85-115 | | | |
| Aluminum Total EPA 200.7/6010 (ICP) | 98.2 | 13.9 | ug/L | 100 | | 98 | 85-115 | | | |
| Calcium Total EPA 200.7/6010 (ICP) | 9.68 | 0.02 | mg/L | 10.0 | | 97 | 85-115 | | | |
| Duplicate (7120618-DUP2) | Source: 0712016- | -03 | | | | | | | | |
| Aluminum Total EPA 200.7/6010 (ICP) | 594 | 13.9 | ug/L | | 602 | | | l | 20 | |
| Calcium Total EPA 200.7/6010 (ICP) | 29.6 | 0.02 | mg/L | | 29.9 | | | 1 | 20 | |
| Iron Total EPA 200.7/6010 (ICP) | 190 | 0.7 | ug/L | | 192 | | | 1 | 20 | |
| Matrix Spike (7120618-MS2) | Source: 0712016- | -04 | | | | | | | | |
| Aluminum Total EPA 200.7/6010 (ICP) | 2170 | 13.9 | ug/L | 100 | 1920 | 250 | 75-125 | | | PSOUT |
| Iron Total EPA 200.7/6010 (ICP) | 792 | 0.7 | ug/L | 100 | 698 | 94 | 75-125 | | | |
| Calcium Total EPA 200.7/6010 (ICP) | 34.6 | 0.02 | mg/L | 10.0 | 24.9 | 97 | 75-125 | | | |
| Post Spike (7120618-PS2) | Source: 0712016- | -04 | | | | | | | | |
| Aluminum Total EPA 200.7/6010 (ICP) | 8840 | | ug/L | 5310 | 1850 | 132 | 75-125 | | | PSOUT |
| Calcium Total EPA 200.7/6010 (ICP) | 75.8 | | mg/L | 48.8 | 24.1 | 106 | 75-125 | | | |
| Iron Total EPA 200.7/6010 (ICP) | 6540 | | ug/L | 5310 | 674 | 110 | 75-125 | | | |



| 2809 NW | Solutions Inc. 161 Ct le, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | Reported: 12/28/07 11:49 |
|---------|---|--|------------------------------------|
| | | NOTES AND DEFINITIONS | |
| S-REX | Poor matrix spike recovery; created reextra | act. | |
| PSOUT | Poor matrix spike recovery; post digestion | spike outside acceptance criteria. | |
| D-RNG | | sample and its duplicate is low in comparison to the MDL. It is the general policy of the vel the sample is not rerun and the data is considered acceptable. | |
| CUSTb | use results from 7120618-MS1 | | |
| CUSTa | SJRWMD ACCEPTS 70-130% | | |
| CUST | actual value 0.0017 | | |
| U | Analyte not detected at or above the metho | d detection limit | |
| I | Analyte not detected above the practical q | uantitation limit. | |
| NR | Not Reported | | |
| dry | Sample results reported on a dry weight be | asis | |
| RPD | Relative Percent Difference | | |



6815 SW Archer Road Gainesville, Florida 32608 (352) 377-2349 FAX (352) 395-6639

January 30, 2008

Serial: LAB-080130 31143

Ron Clarke Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 RE: Lake Hancock Work Order: 0801106

Enclosed are the results of analyses for samples received by the laboratory on January 11, 2008.

All data were determined in accordance with published procedures (EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Rev March 1983; and Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992). Our laboratory is certified by Florida Department of Health (FDH No. E82001).

All results were determined in accordance with NELAP requirements and in accordance with the chain of custody document unless noted in the report case narrative or data report. All data is subject to a degree of uncertainty. For a discussion of laboratory uncertainty, please contact your project manager. This analytical report must be reproduced in its entirety.

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

Sincerely,

Karen Daniels Operations Manager kdaniels@aellab.com

Advanced Environmental Laboratories

Page 1 of 21

NELAC requires that any value reported be listed as having less certainty if the result is between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ). The levels shown in the table below are the laboratories MDL and LOQ. Any result reported that falls between these two values should be considered to have less certainty.

| Analyte | <u>units</u> | Method | MDL | LOQ |
|--|---------------------------------------|-------------------|-------|---------------|
| Chloride | mg/L | EPA 350.1 | 0.009 | 0.0 |
| Chonium+6 | mg/L | EPA 325.2 | 0.12 | |
| COD | ug/L | 3500CrB, EPA 7196 | 4.5 | 7. |
| Conductivity | mg/L | EPA 410.4 | 6.2 | 7: |
| Cvanide | uS/cm | EPA 120.1 | 9.2 | 14. |
| Cyanne Fluoride (undistilled) | mg/L. | 335.2,9010/9014 | 0.002 | 0.00 |
| | mg/L | EPA 340.2 | 0.02 | 0.0 |
| Kieldahl Nitrogen (Alpkem - CuSO4 digestion) | mg/L | EPA 351.2 | 0.08 | 0.3 |
| Nitrite (Spectrophotometer) Nitrite/Nitrate | mg/L | EPA 353.3 | 0.004 | 0.00 |
| Organic Cabon | mg/L | EPA 353.2 | 0.003 | 0.00 |
| | mg/L | EPA 415.2 | 0.7 | |
| Ortho Phosphorus, Genesys II | mg/L | EPA 365.2 | 0.002 | 0.004 |
| Dissolved Silica Sulfate | mg/L | EPA 370.1 | 0.05 | |
| | mg/L | EPA 375.4 | 0.33 | 1 |
| Total Carbon | mg/L | EPA 4152 | 0.5 | |
| Total Phosphorus, Spec - Genesys II | mg/L | EPA 365.3 | 0.006 | 0.00 |
| Total Phosphorus, Alpkem | mg/L | EPA 365.1 | 0.002 | 0.006 |
| Turbidity | NTU | EPA 180.1 | 0.03 | 0.1 |
| Silver | og/L | EPA 272.2/7761 | 0.1 | 0.16 |
| <u>Fin</u> | ug/L | EPA 282.2/7871 | 1.8 | 3.12 |
| 4 birraraim | ug/L | EPA 200.7/6010 | 13.9 | 50 |
| Antimony | ugL | EPA 200.7/6010 | 2.9 | 0 |
| Asenic | ug/L | EPA 200.7/6010 | 2.3 | |
| Barium | ug/L | EPA 200.7/6010 | 0.2 | |
| Beryllnım | ug/L | EPA 200.7/6010 | 0.2 | |
| lom n | ug/L | EPA 200.7/6010 | 1.5 | |
| admin | og/L | EPA 200.7/6010 | 0.4 | <u></u> 50 |
| alcium | mg/L | EPA 200.7/6010 | 0.4 | |
| homin | ug/L | EPA 200.7/6010 | 0.4 | 0.05 |
| obalt | ug/L | EPA 200.7/6010 | 0.4 | |
| opper | ug/L | EPA 200.7/6010 | 0.4 | <u> </u> |
| <u>ion</u> | | EPA 200.7/6010 | 1 | |
| ead | | EPA 200.7/6010 | 0.7 | |
| lagnesium | 1 | EPA 200.7/6010 | 1.9 | |
| langanese | | EPA 200.7/6010 | 0.014 | 0.05 |
| lolybdenim | · · · · · · · · · · · · · · · · · · · | EPA 200.7/6010 | 0.15 | |
| ickel | | EPA 200.7/6010 | 0.7 | |
| otass burn | | EPA 200.7/6010 | 0.7 | |
| elenium | | EPA 200.7/6010 | 0.006 | 0.05 |
| dium | | | 2.4 | |
| rontium | ······ | EPA 200.7/6010 | 0.065 | 0.1 |
| hallium | | EPA 200.7/6010 | 0.19 | |
| tannum | | EPA 200.7/6010 | 3.6 | 20 |
| anadium | | EPA 200.7/6010 | 0.26 | 50 |
| nc | 1 | EPA 200.7/6010 | 0.5 | |
| | ug/L | EPA 200.7/6010 | 1.65 | 50 |

Serial: LAB-080130 31144

Page 2 of 21

6815 SW Archer Rd Gainesville, FL 32608 Rinced 352.377.2349 Phone terrironmental Laboratories, Inc. 352.395.6639 Fax NELAP Certified - FDH #E82001 Wetlands Solutions Inc. 2809 NW 161 Ct Project: Lake Hancock **Reported:** Gainesville, FL 32609 Project Manager: Ron Clarke 01/30/08 15:11 ANALYTICAL REPORT FOR SAMPLES Sample ID Laboratory ID Matrix Date Sampled **Date Received** W - 1 0801106-01 Water 01/10/08 12:59 01/11/08 08:40 W - 2 0801106-02 Water 01/11/08 08:40 01/10/08 13:20 W - 3 0801106-03 Water 01/10/08 13:38 01/11/08 08:40 W - 4 0801106-04 Water 01/10/08 13:53 01/11/08 08:40 W - 5 0801106-05 Water 01/10/08 16:13 01/11/08 08:40 C-1 0801106-06 Water 01/10/08 10:44 01/11/08 08:40 C-2 0801106-07 Water 01/11/08 08:40 01/10/08 12:49 W-1 0801106-08 Soil 01/10/08 14:35 01/11/08 08:40 W-2 0801106-09 Soil 01/10/08 14:50 01/11/08 08:40 W-3 0801106-10 Soil 01/10/08 15:05 01/11/08 08:40 W-4 0801106-11 Soil 01/10/08 15:20 01/11/08 08:40 C-1

Soil

Soil

01/10/08 15:30

01/10/08 15:50

01/11/08 08:40

01/11/08 08:40

0801106-12

0801106-13

C-2



| | rojectivanager. Kon Charke | 01/50/08 15.11 |
|-------------------------|-----------------------------|----------------|
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 01/30/08 15:11 |
| 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
| Wetlands Solutions Inc. | | |

REPORT OF RESULTS

W - 1 0801106-01 (Water)

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--|---------|--------------------|-------|----------|---------|----------|----------------|-------|
| Aluminum Total EPA 200.7/6010 (ICP) | 347 | 13.9 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 15:45 | |
| Ammonia, Total EPA 350.1 | 0.030 I | 0.009 | mg/L | 1 | 8011505 | 01/15/08 | 01/15/08 14:27 | |
| Calcium Total EPA 200.7/6010 (ICP) | 35.4 | 0.02 | mg/L | 1 | 8011413 | 01/14/08 | 01/16/08 15:45 | |
| Iron Total EPA 200.7/6010 (ICP) | 1430 | 0.7 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 15:45 | v |
| Nitrate-Nitrite, Total EPA 353.2 | 0.003 U | 0.003 | mg/L | 1 | 8011720 | 01/17/08 | 01/18/08 12:01 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.023 | 0.002 | mg/L | 1 | 8011110 | 01/11/08 | 01/11/08 17:00 | |
| Sulfate, Total EPA 375.4 | 9.57 | 0.33 | mg/L | 1 | 8011706 | 01/17/08 | 01/17/08 10:45 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.19 | 0.08 | mg/L | 1 | 8011508 | 01/15/08 | 01/17/08 00:00 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 5.55 | 0.16 | mg/L | 2 | 8011507 | 01/15/08 | 01/17/08 00:00 | |
| Total Suspended Solids EPA 160.2 - 100mL | 36.0 | 2.0 | mg/L | 1 | 8011102 | 01/11/08 | 01/11/08 09:34 | |
| | | | | | | | | |

W - 1

0801106-01RE1 (Water)

| | 0801106-01RE | 1 (Water) | | | | · . | |
|--------|--|---|--|--|---|--|--|
| Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| 0.909 | 0.030 | mg/L | 5 | 8012410 | 01/25/08 | 01/25/08 13:00 | |
| | W - 2 | 2 | | | | | |
| | 0801106-02 | (Water) | | | | | |
| Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| 241 | 13.9 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 16:05 | |
| 0.534 | 0.009 | mg/L | 1 | 8011505 | 01/15/08 | 01/15/08 14:32 | |
| 35.7 | 0.02 | mg/L | 1 | 8011413 | 01/14/08 | 01/16/08 16:05 | |
| 290 | 0.7 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 16:05 | v |
| 0.039 | 0.003 | mg/L | 1 | 8011720 | 01/17/08 | 01/18/08 12:03 | |
| 0.053 | 0.002 | mg/L | 1 | 8011110 | 01/11/08 | 01/11/08 17:00 | |
| 11.2 | 0.33 | mg/L | 1 | 8011706 | 01/17/08 | 01/17/08 10:45 | |
| 7.45 | 0.16 | mg/L | 2 | 8011507 | 01/15/08 | 01/17/08 00:00 | |
| 0.629 | 0.006 | mg/L | 1 | 8012202 | 01/22/08 | 01/23/08 16:30 | |
| 13.0 | 2.0 | mg/L | 1 | 8011102 | 01/11/08 | 01/11/08 09:34 | |
| | Result 0.909 Result 241 0.534 35.7 290 0.039 0.053 11.2 7.45 0.629 | Result Reporting Limit 0.909 0.030 W - 2 0801106-02 0801106-02 Reporting Limit 241 13.9 0.534 0.009 35.7 0.02 290 0.7 0.039 0.003 0.053 0.002 11.2 0.33 7.45 0.16 0.629 0.006 | Result Reporting Limit Units 0.909 0.030 mg/L W - 2 0801106-02 (Water) Ver - 2 0801106-02 (Water) Temporting Limit 241 13.9 ug/L 0.534 0.009 mg/L 35.7 0.02 mg/L 290 0.7 ug/L 0.039 0.003 mg/L 0.053 0.002 mg/L 11.2 0.33 mg/L 7.45 0.16 mg/L 0.629 0.006 mg/L | Result Limit Units Dilution 0.909 0.030 mg/L 5 W - 2 0801106-02 (Water) Dilution Result Limit Units Dilution 241 13.9 ug/L 1 0.534 0.009 mg/L 1 35.7 0.02 mg/L 1 290 0.7 ug/L 1 0.039 0.003 mg/L 1 0.039 0.002 mg/L 1 11.2 0.33 mg/L 1 7.45 0.16 mg/L 2 0.629 0.006 mg/L 1 | Result Reporting Limit Units Dilution Batch 0.909 0.030 mg/L 5 8012410 W - 2 0801106-02 (Water) Exporting Limit Units Dilution Batch 241 13.9 ug/L 1 8011413 0.534 0.009 mg/L 1 8011413 0.534 0.009 mg/L 1 8011413 290 0.7 ug/L 1 8011413 0.039 0.003 mg/L 1 801110 11.2 0.33 mg/L 1 8011706 7.45 0.16 mg/L 1 8012202 | Result Reporting Limit Units Dilution Batch Prepared 0.909 0.030 mg/L 5 8012410 01/25/08 W - 2 0801106-02 (Water) W - 2 Dilution Batch Prepared Result Limit Units Dilution Batch Prepared 241 13.9 ug/L 1 8011413 01/14/08 0.534 0.009 mg/L 1 8011413 01/14/08 35.7 0.02 mg/L 1 8011413 01/14/08 290 0.7 ug/L 1 8011413 01/14/08 0.039 0.003 mg/L 1 8011700 01/17/08 0.053 0.002 mg/L 1 8011100 01/11/08 11.2 0.33 mg/L 1 8011706 01/17/08 7.45 0.16 mg/L 2 8011507 01/15/08 0.629 0.006 mg/L </td <td>ResultLimitUnitsDilutionBatchPreparedAnalyzed$0.909$$0.030mg/L5$$8012410$$01/25/08$$01/25/08$$13:00$W - 2 0801106-02 (Water)W - 2 0801106-02 (Water)Reporting LimitDilutionBatchPreparedAnalyzed241$13.9$$ug/L$1$8011413$$01/14/08$$01/16/08$$0.534$$0.009$$mg/L$1$8011505$$01/15/08$$01/16/08$$0.534$$0.002$$mg/L$1$8011413$$01/14/08$$01/16/08$$290$$0.7$$ug/L$1$8011413$$01/14/08$$01/16/08$$0.039$$0.003$$mg/L$1$8011720$$01/17/08$$01/16/08$$0.053$$0.002$$mg/L$1$8011700$$01/11/08$$01/11/08$$01/17/08$$11.2$$0.33$$mg/L$1$8011507$$01/17/08$$01/17/08$$01/23/08$$0.629$$0.006$$mg/L$1$8012202$$01/22/08$$01/23/08$$16:30$</td> | ResultLimitUnitsDilutionBatchPreparedAnalyzed 0.909 0.030 mg/L 5 8012410 $01/25/08$ $01/25/08$ $13:00$ W - 2 0801106-02 (Water)W - 2 0801106-02 (Water)Reporting LimitDilutionBatchPreparedAnalyzed241 13.9 ug/L 1 8011413 $01/14/08$ $01/16/08$ 0.534 0.009 mg/L 1 8011505 $01/15/08$ $01/16/08$ 0.534 0.002 mg/L 1 8011413 $01/14/08$ $01/16/08$ 290 0.7 ug/L 1 8011413 $01/14/08$ $01/16/08$ 0.039 0.003 mg/L 1 8011720 $01/17/08$ $01/16/08$ 0.053 0.002 mg/L 1 8011700 $01/11/08$ $01/11/08$ $01/17/08$ 11.2 0.33 mg/L 1 8011507 $01/17/08$ $01/17/08$ $01/23/08$ 0.629 0.006 mg/L 1 8012202 $01/22/08$ $01/23/08$ $16:30$ |

Page 4 of 21



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Pro | Project: 1 oject Manager: 1 | Lake Hancock Ron Clarke | : | | | - | orted:)8 15:11 |
|--|---------|--------------------------------|----------------------------|----------|---------|----------|----------------|--------------------|
| | | W - | | | | | | |
| | | 0801106-02R | E1 (Water) | | | | | - |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 6.16 | 0.16 | mg/L | 2 | 8011803 | 01/18/08 | 01/24/08 00:00 | |
| | | W - | 3 | | | | | |
| | | 0801106-03 | (Water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Total EPA 200.7/6010 (ICP) | 466 | 13.9 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 16:33 | |
| Ammonia, Total EPA 350.1 | 0.037 | 0.009 | mg/L | 1 | 8011505 | 01/15/08 | 01/15/08 14:28 | |
| Calcium Total EPA 200.7/6010 (ICP) | 39.2 | 0.02 | mg/L | 1 | 8011413 | 01/14/08 | 01/16/08 16:33 | |
| Iron Total EPA 200.7/6010 (ICP) | 144 | 0.7 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 16:33 | v |
| Nitrate-Nitrite, Total EPA 353.2 | 0.008 I | 0.003 | mg/L | 1 | 8011720 | 01/17/08 | 01/18/08 12:12 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.365 | 0.002 | mg/L | 1 | 8011110 | 01/11/08 | 01/11/08 17:00 | |
| Sulfate, Total EPA 375.4 | 12.2 | 0.33 | mg/L | 1 | 8011706 | 01/17/08 | 01/17/08 10:45 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.22 | 0.08 | mg/L | 1 | 8011508 | 01/15/08 | 01/17/08 00:00 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 2.99 | 0.08 | mg/L | 1 | 8011507 | 01/15/08 | 01/17/08 00:00 | |
| Total Suspended Solids EPA 160.2 - 100mL | 9.0 | 2.0 | mg/L | 1 | 8011102 | 01/11/08 | 01/11/08 09:34 | |
| | | - W 0801106-03RI | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus Total EPA 365.3 (Spee) | 0.027 | 0.010 | · · · · · · | | | - | • | |

| | result | Lanut | Units | Dilution | Daten | rrepared | Analyzed | Notes |
|--|--------|-------|-------|----------|---------|----------|----------------|-------|
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.837 | 0.018 | mg/L | 3 | 8012410 | 01/25/08 | 01/25/08 13:00 | |

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| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Pro | Reported: 01/30/08 15:11 | | | | | | |
|--|---------|------------------------------------|-------|----------|---------|----------------------|----------------------------------|-------|
| | | - W 0801106-04 | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Total EPA 200.7/6010 (ICP) | 948 | 13.9 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 16:43 | |
| mmonia, Total EPA 350.1 | 0.032 I | 0.009 | mg/L | 1 | 8011505 | 01/15/08 | 01/15/08 14:34 | |
| alcium Total EPA 200.7/6010 (ICP) | 32.3 | 0.02 | mg/L | 1 | 8011413 | 01/14/08 | 01/16/08 16:43 | |
| on Total EPA 200.7/6010 (ICP) | 391 | 0.7 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 16:43 | v |
| itrate-Nitrite, Total EPA 353.2 | 0.003 U | 0.003 | mg/L | 1 | 8011720 | 01/17/08 | 01/18/08 12:13 | v |
| oluble Reactive Phosphate EPA 365.2 | 0.209 | 0.002 | mg/L | 1 | 8011110 | 01/11/08 | 01/11/08 17:00 | |
| llfate, Total EPA 375.4 | 10.9 | 0.33 | mg/L | 1 | 8011706 | 01/17/08 | 01/17/08 10:45 | |
| otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.32 | 0.08 | mg/L | 1 | 8011508 | 01/15/08 | 01/17/08 00:00 | |
| tal Kjeldahl Nitrogen, Total EPA 351.2 | 3.85 | 0.08 | mg/L | 1 | 8011508 | | | |
| otal Suspended Solids EPA 160.2 - 100mL | 21.0 | 2.0 | mg/L | 1 | 8011307 | 01/15/08 01/11/08 | 01/17/08 00:00 01/11/08 09:34 | |

W - 4

0801106-04RE1 (Water)

| | | | | , | | | | |
|---|---------|--------------------|---------|----------|---------|----------------------|----------------|-------|
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.37 | 0.030 | mg/L | 5 | 8012410 | 01/25/08 | 01/25/08 13:00 | |
| | | W - | 5 | | | | | |
| | | 0801106-05 | (Water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Total EPA 200.7/6010 (ICP) | 343 | 13.9 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 17:12 | |
| Ammonia, Total EPA 350.1 | 0.216 | 0.009 | mg/L | 1 | 8011505 | 01/15/08 | 01/15/08 14:39 | |
| Calcium Total EPA 200.7/6010 (ICP) | 39.6 | 0.02 | mg/L | 1 | 8011413 | 01/14/08 | 01/16/08 17:12 | |
| ron Total EPA 200.7/6010 (ICP) | 217 | 0.7 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 17:12 | 17 |
| Nitrate-Nitrite, Total EPA 353.2 | 0.009 I | 0.003 | mg/L | 1 | 8011720 | 01/17/08 | 01/18/08 12:14 | v |
| Soluble Reactive Phosphate EPA 365.2 | 0.006 I | 0.002 | mg/L | 1 | 8011110 | 01/11/08 | 01/11/08 17:00 | |
| ulfate, Total EPA 375.4 | 15.7 | 0.33 | mg/L | 1 | 8011706 | 01/17/08 | 01/17/08 10:45 | |
| otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.63 | 0.08 | mg/L | 1 | 8011508 | 01/15/08 | 01/17/08 00:00 | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 15.6 | 0.32 | mg/L | 4 | 8011508 | | 01/17/08 00:00 | |
| Cotal Suspended Solids EPA 160.2 - 100mL | 148 | 2.0 | mg/L | 1 | 8011307 | 01/15/08 01/11/08 | 01/11/08 09:34 | |
| | | | | | | | | |



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Pro | Project: I ject Manager: F | .ake Hancoc Ron Clarke | k | | | - | orted:)8 15:11 |
|--|---------|-------------------------------|---------------------------|----------|---------|----------|----------------|--------------------|
| | | W - | | | | | | |
| | | 0801106-05RI | E1 (Water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.815 | 0.030 | mg/L | 5 | 8012410 | 01/25/08 | 01/25/08 13:00 | |
| | | C-1 | | | | | | |
| | | 0801106-06 | (Water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Total EPA 200.7/6010 (ICP) | 64.7 | 13.9 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 17:21 | |
| Ammonia, Total EPA 350.1 | 0.388 | 0.009 | mg/L | 1 | 8011505 | 01/15/08 | 01/15/08 14:47 | |
| Calcium Total EPA 200.7/6010 (ICP) | 41.3 | 0.02 | mg/L | 1 | 8011413 | 01/14/08 | 01/16/08 17:21 | |
| Iron Total EPA 200.7/6010 (ICP) | 420 | 0.7 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 17:21 | v |
| Nitrate-Nitrite, Total EPA 353.2 | 0.008 I | 0.003 | mg/L | 1 | 8011720 | 01/17/08 | 01/18/08 12:15 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.006 I | 0.002 | mg/L | 1 | 8011110 | 01/11/08 | 01/11/08 17:00 | |
| Sulfate, Total EPA 375.4 | 11.3 | 0.33 | mg/L | . 1 | 8011706 | 01/17/08 | 01/17/08 10:45 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 4.44 | 0.16 | mg/L | 2 | 8011603 | 01/16/08 | 01/17/08 00:00 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.438 | 0.006 | mg/L | 1 | 8012202 | 01/22/08 | 01/23/08 16:30 | |
| Total Suspended Solids EPA 160.2 - 100mL | 30.0 | 2.0 | mg/L | 1 | 8011102 | 01/11/08 | 01/11/08 09:34 | |
| | | C-1 | | | | | | |
| | 0 | 801106-06RE | 1 (Water) | | | | | |

| | | Reporting | | | | | | |
|--|--------|-----------|-------|----------|---------|----------|----------------|-------|
| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 8.67 | 0.32 | mg/L | 4 | 8011802 | 01/18/08 | 01/24/08 00:00 | |



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Pro | Reported: 01/30/08 15:11 | | | | | | |
|--|---------|------------------------------------|-----------|----------|---------|----------|----------------|-------|
| | | C-2 0801106-07 | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Total EPA 200.7/6010 (ICP) | 289 | 13.9 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 17:31 | |
| Ammonia, Total EPA 350.1 | 0.434 | 0.009 | mg/L | 1 | 8011505 | 01/15/08 | 01/15/08 14:52 | |
| Calcium Total EPA 200.7/6010 (ICP) | 40.4 | 0.02 | mg/L | 1 | 8011413 | 01/14/08 | 01/16/08 17:31 | |
| Iron Total EPA 200.7/6010 (ICP) | 1030 | 0.7 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 17:31 | v |
| Nitrate-Nitrite, Total EPA 353.2 | 0.007 I | 0.003 | mg/L | 1 | 8011720 | 01/17/08 | 01/18/08 12:17 | • |
| Soluble Reactive Phosphate EPA 365.2 | 0.011 | 0.002 | mg/L | 1 | 8011110 | 01/11/08 | 01/11/08 17:00 | |
| Sulfate, Total EPA 375.4 | 8.13 | 0.33 | mg/L | 1 | 8011706 | 01/17/08 | 01/17/08 10:45 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 5.36 | 0.32 | mg/L | 4 | 8011603 | 01/16/08 | 01/17/08 00:00 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.602 | 0.006 | mg/L | 1 | 8012202 | 01/22/08 | 01/23/08 16:30 | |
| Total Suspended Solids EPA 160.2 - 100mL | 42.0 | 2.0 | mg/L | 1 | 8011102 | 01/11/08 | 01/11/08 09:34 | |
| | | C-2 | | | | | | |
| | (|)801106-07RE | 2 (Water) | | | | | |

| Analysis Total Kjeldahl Nitrogen, Total EPA 351.2 | Result 8.40 | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---|-----------------|---------------------------------|---------------|--------------------|------------------|--------------------------|-----------------------------------|-------|
| Total LI A 551.2 | 8.40 | 0.32 | mg/L | 4 | 8012505 | 01/25/08 | 01/28/08 00:00 | |
| | | W- | 1 | | | | | |
| | | 0001107 | | | | | | |
| | | 0801106-0 |)8 (Soil) | | | | | |
| Analysis | Result | 0801106-0 Reporting Limit |)8 (Soil) | Dilution | Batch | Prepared | Analyzed | Notes |
| | Result 71500 | Reporting | | Dilution | Batch 8011411 | Prepared 01/14/08 | Analyzed 01/18/08 18:42 | Notes |
| Analysis Aluminum Sediment EPA 6010B (ICP) Calcium Sediment EPA 6010B (ICP) | | Reporting Limit | Units | Dilution 1 1 | | | | Notes |

| | | | 000 | - | | 01/11/00 | | v |
|--|-------|---------------|----------------------|-------------|-------------|----------|----------------|---|
| Phosphorus in Sediment Not NELAC certified | 65600 | 57.1 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 18:42 | v |
| Phosphorus, Inorganic in Sediment | 21900 | 1080 | mg/kg dry | 500 | 8012303 | 01/23/08 | 01/28/08 14:59 | |
| Solids, Dry Weight | 46.2 | 0.1 | % by Weight | 1 | 8011506 | 01/15/08 | 01/15/08 09:22 | |
| Subcontracted Analyses | | Sample was si | ubcontracted. Please | e see attac | hed report. | | | |

W-1

0801106-08RE1 (Soil)

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--------------------------|--------|--------------------|-----------|----------|---------|----------|----------------|-------|
| Sulfate, Total EPA 375.4 | 610 | 40 | mg/kg dry | 20 | 8012910 | 01/29/08 | 01/29/08 12:56 | |

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Advanced Environmental Laboratories, Inc.

6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

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| Wetlands Solutions Inc. | | Project | Lake Hancock | | | | | |
|--|--------|--------------------|------------------------|-------------------|--|----------|----------------------------------|----------|
| 2809 NW 161 Ct Gainesville, FL 32609 | Dm | | | | | | - | orted: |
| | | oject Manager: | Ron Clarke | | | | 01/30/0 | 08 15:11 |
| | | W | -2 | | | | | |
| | | 0801106- | -09 (Soil) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Sediment EPA 6010B (ICP) | 78600 | 275 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 18:52 | |
| Calcium Sediment EPA 6010B (ICP) | 122000 | 0.15 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 18:52 | v |
| Iron Sediment EPA 6010B (ICP) | 36800 | 7.6 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 18:52 | v |
| Phosphorus in Sediment Not NELAC certified | 66700 | 76.3 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 18:52 | v |
| Phosphorus, Inorganic in Sediment | 65000 | 2240 | mg/kg dry | 1000 | 8012303 | 01/23/08 | 01/28/08 14:59 | • |
| Solids, Dry Weight | 44.7 | 0.1 | % by Weight | 1 | 8011506 | 01/15/08 | 01/15/08 09:22 | |
| Subcontracted Analyses | | Sample was sul | bcontracted. Plea | | | | | |
| | | W | -2 | | | | | |
| | | 0801106-09 | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Sulfate, Total EPA 375.4 | 119 | 40 | mg/kg dry | 20 | 8012910 | 01/29/08 | 01/29/08 12:56 | |
| | | W | 3 | | | | | |
| | | 0801106- | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Potok | Buonovod | | |
| Aluminum Sediment EPA 6010B (ICP) | 77600 | 212 | | Dilution | Batch | Prepared | Analyzed 01/18/08 19:02 | Notes |
| Calcium Sediment EPA 6010B (ICP) | 104000 | 0.12 | mg/kg dry mg/kg dry | 1 | 8011411 | 01/14/08 | | |
| ron Sediment EPA 6010B (ICP) | 26900 | 5.9 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 19:02 01/18/08 19:02 | V |
| hosphorus in Sediment Not NELAC certified | 63000 | 58.9 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 19:02 | V |
| hosphorus, Inorganic in Sediment | 38500 | 1090 | mg/kg dry | 1 | 8011411 | 01/14/08 | | V |
| Solids, Dry Weight | 46.0 | 0.1 | % by Weight | 500 | 8012303 | 01/23/08 | 01/28/08 14:59 01/15/08 09:22 | |
| Subcontracted Analyses | 10.0 | | contracted. Pleas | 1 e see attach | 8011506 ed report | 01/15/08 | 01/15/06 09:22 | |
| | | W- | | - See attaoli | es report. | | | |
| | | - w- 0801106-10 | | | | | | |
| | | Reporting | · · · | | an ta an | | | |
| analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| ulfate, Total EPA 375.4 | 43 I | 40 | mg/kg dry | 20 | 8012910 | 01/29/08 | 01/29/08 12:56 | |



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | NW 161 Ct Project: Lake Hancock | | | | | | | orted:)8 15:11 |
|--|---------------------------------|--------------------|-------------------|---------------|------------|----------|----------------|--------------------|
| | | W 0801106- | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Sediment EPA 6010B (ICP) | 54500 | 241 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 19:21 | |
| Calcium Sediment EPA 6010B (ICP) | 95600 | 0.13 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 19:21 | v |
| Iron Sediment EPA 6010B (ICP) | 26100 | 6.7 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 19:21 | v |
| Phosphorus in Sediment Not NELAC certified | 48400 | 66.9 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 19:21 | v |
| Phosphorus, Inorganic in Sediment | 3410 | 239 | mg/kg dry | 100 | 8012303 | 01/23/08 | 01/28/08 14:59 | |
| Solids, Dry Weight | 41.9 | 0.1 | % by Weight | 1 | 8011506 | 01/15/08 | 01/15/08 09:22 | |
| Subcontracted Analyses | | Sample was sub | contracted. Pleas | se see attach | ed report. | | | |
| | | W | -4 | | | | | |
| | | 0801106-11 | RE1 (Soil) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |

 Sulfate, Total EPA 375.4
 324
 20
 mg/kg dry
 20
 8012910
 01/29/08
 01/29/08

C-1

0801106-12 (Soil)

| Analysis | Result | Reporting Limit | Units | | n / 1 | · | | |
|--|--------|--------------------|-------------------|---------------|------------|----------|----------------|-------|
| | Kesuit | Linu | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Sediment EPA 6010B (ICP) | 73700 | 271 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 19:59 | |
| Calcium Sediment EPA 6010B (ICP) | 110000 | 0.15 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 19:59 | v |
| Iron Sediment EPA 6010B (ICP) | 34400 | 7.5 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 19:59 | v |
| Phosphorus in Sediment Not NELAC certified | 54700 | 75.3 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 19:59 | v |
| Phosphorus, Inorganic in Sediment | 57500 | 1260 | mg/kg dry | 500 | 8012303 | 01/23/08 | 01/28/08 14:59 | |
| Solids, Dry Weight | 39.6 | 0.1 | % by Weight | 1 | 8011506 | 01/15/08 | 01/15/08 09:22 | |
| Subcontracted Analyses | | Sample was sul | contracted. Pleas | se see attach | ed report. | | | |

C-1 0801106-12RE1 (Soil)

| | | Reporting | | | | | | |
|--------------------------|--------|-----------|-----------|----------|---------|----------|----------------|-------|
| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Sulfate, Total EPA 375.4 | 1660 | 40 | mg/kg dry | 20 | 8012910 | 01/29/08 | 01/29/08 12:56 | |



| 2809 NW 161 Ct Gainesville, FL 32609 | Pro | Project: ject Manager: | Lake Hancock Ron Clarke | | | - | orted:)8 15:11 | |
|--|--------|---------------------------|----------------------------|---------------|---------|----------|--------------------|-------|
| | | | -2 -13 (Soil) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Aluminum Sediment EPA 6010B (ICP) | 68800 | 213 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 20:09 | |
| Calcium Sediment EPA 6010B (ICP) | 98000 | 0.12 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 20:09 | v |
| Iron Sediment EPA 6010B (ICP) | 23800 | 5.9 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 20:09 | v v |
| Phosphorus in Sediment Not NELAC certified | 57900 | 59.1 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 20:09 | v |
| Phosphorus, Inorganic in Sediment | 31800 | 1090 | mg/kg dry | 500 | 8012303 | 01/23/08 | 01/28/08 14:59 | v |
| Solids, Dry Weight | 45.8 | 0.1 | % by Weight | 1 | 8011506 | 01/25/08 | 01/15/08 09:22 | |
| Subcontracted Analyses | | | contracted. Pleas | se see attach | | 01/13/08 | 0115/08 09.22 | |
| | | C- 0801106-13 | 2 | | | | | |

| Analysis | Result | Reporting Limit | Units | Dilution | Datab | D | | |
|--------------------------|--------|--------------------|-----------|----------|---------|----------|----------------|-------|
| Sulfate Total EDA 275 4 | | | | Dilution | Batch | Prepared | Analyzed | Notes |
| Sulfate, Total EPA 375.4 | 1190 | 40 | mg/kg dry | 20 | 8012910 | 01/29/08 | 01/29/08 12:56 | |



Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609

Project: Lake Hancock

Reported: 01/30/08 15:11

QUALITY CONTROL FOR SAMPLES

Project Manager: Ron Clarke

Solids - Quality Control

| | | | <u> </u> | | | | | | | |
|--|--------------------|--------------------|---------------|----------------|------------------|------|----------------|-----|--------------|-------|
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 8011102 = Total Suspended | l Solids EPA 160.2 | - 100mL | - | | | | | | | |
| Blank (8011102-BLK1) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Blank (8011102-BLK2) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | · A | | | | |
| Blank (8011102-BLK3) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Duplicate (8011102-DUP2) | Source: 0801106-0 | 2 | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 15.0 | 2.0 | mg/L | | 13.0 | | | 14 | 20 | |
| Reference (8011102-SRM1) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 56.0 | | mg/L | 51.0 | | 110 | 80-120 | | | |
| Batch 8011506 = Solids, Dry Weig | ght | | | | | | | | | |
| Blank (8011506-BLK1) | | | · · · | | | | | | | |
| Solids, Dry Weight | 0.1 U | 0.1 | % by Weight | | | | | | | |
| Blank (8011506-BLK2) | | | | | | | | | | |
| Solids, Dry Weight | 0.1 U | 0.1 | % by Weight | | | | | | | |
| | | | | | | | | | | |
| | | Nutrier | nts - Quality | y Contr | ol | | | | | |
| A | Result | Reporting | | Spike | Source | | %REC | | RPD | |
| Analyte | Kesun | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 8011110 = Soluble Reactive | Phosphate EPA 36 | 5.2 | | | | | | | | |
| Blank (8011110-BLK1) | | | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.002 U | 0.002 | mg/L | | | | | | | |
| Duplicate (8011110-DUP5) | Source: 0801106-01 | l | | | | | | | | |
| oluble Reactive Phosphate EPA 365.2 | 0.023 | 0.002 | mg/L | | 0.023 | | | 0 | 20 | |
| Aatrix Spike (8011110-MS5) | Source: 0801106-02 | 2 | | | | | | | | |
| oluble Reactive Phosphate EPA 365.2 | 0.307 | | mg/L | 0.250 | 0.0512 | 102 | 85-115 | | | - |
| Reference (8011110-SRM1) | | | | | | | | | | |
| oluble Reactive Phosphate EPA 365.2 | 0.646 | | mg/L | 0.610 | | 106 | 80-120 | | | |
| | | | | | | | | | | |

Serial: LAB-080130 31144

Page 12 of 21



| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | | | | | | | | | ed: 15:11 |
|--|--|--------------------|-------------|----------------|------------------|------|-----------------------------------|-----|--------------|--------------|
| | | Nutrie | nts - Quali | ty Conti | rol | | | | | |
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 8011110 = Soluble Reactive | Phosphate EPA 36 | 5.2 | | | | | | | | |
| Batch 8011411 = Phosphorus in S | ediment Not NELA | C certifi | ed | | | | | | | |
| Blank (8011411-BLK1) | | | | | | | | | | |
| Phosphorus in Sediment Not NELAC certifie | d 4.0 | 1.0 | mg/kg wet | | | | | | | v |
| LCS (8011411-BS1) | | | | | | | | | | |
| Phosphorus in Sediment Not NELAC certifie | d 660 | 3.8 | mg/kg wet | | | | 85-115 | | | NT |
| Duplicate (8011411-DUP2) | Source: 0801106-10 | | | | | | | | | |
| Phosphorus in Sediment Not NELAC certifie | d 56300 | 56.3 | mg/kg dry | | 63000 | | | 11 | 20 | |
| Reference (8011411-SRM1) | | | | | | | | | | |
| Phosphorus in Sediment Not NELAC certified | d 2610 | 7.7 | mg/kg wet | 3070 | | 85 | 85-115 | | | |
| Batch 8011505 = Ammonia, Total | EPA 350.1 | | | | | | | | | |
| Blank (8011505-BLK1) | | | | | | | *** ** <u>**************</u> **** | | | |
| Ammonia, Total EPA 350.1 | 0.009 U | 0.009 | mg/L | | | | | | - | |
| Duplicate (8011505-DUP6) | Source: 0801106-06 | | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.411 | 0.009 | mg/L | | 0.388 | | | 6 | 20 | |
| Reference (8011505-SRM1) | | | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.653 | 0.009 | mg/L | 0.635 | | 103 | 90-110 | | | |
| Batch 8011507 = Total Kjeldahl N | itragen Tatal FPA | 351.2 | | | | | | | | |
| Blank (8011507-BLK1) | terogen, rotar ErA | JJ1.2 | | | | | | | | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| Blank (8011507-BLK2) | | | 3- | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| LCS (8011507-BS1) | | | <i>-</i> | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 1.92 | 0.08 | mg/L | 2.00 | | 96 | 90-110 | | | |
| LCS (8011507-BS2) | | | ÷ | - | | | ~~ | | | |
| Cotal Kjeldahl Nitrogen, Total EPA 351.2 | 1.85 | 0.08 | mg/L | 2.00 | | 92 | 90-110 | | | |
| Duplicate (8011507-DUP3) | Source: 0801106-01 | | - | | | | 20 110 | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 5.39 | 0.16 | mg/L | | 5.55 | | | 3 | 20 | |
| Aatrix Spike (8011507-MS3) | Source: 0801106-03 | | č | | | | | 5 | 20 | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 3.96 | 0.08 | mg/L | 1.00 | 2.99 | 97 | 85-115 | | | |
| | | | | 1.00 | 4.19 | 21 | 03-113 | | | |

Serial: LAB-080130 31144

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Page 13 of 21



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| Wetlands Solution | Inc. | |
|--------------------|--------------------------------|------------------------------------|
| 2809 NW 161 Ct | Project: Lake Hancock | |
| Gainesville, FL 32 | 09 Project Manager: Ron Clarke | Reported: 01/30/08 15:11 |

Nutrients - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | N-4- |
|---|----------------|--------------------|-------|----------------|---------------------------------------|------|----------------|-----|--------------|-------|
| Batch 8011508 = Total Kjeldahl Nitrog | gen, Dissolved | I EPA 351 | .2 | | | | 2.11113 | | Limi | Notes |
| Blank (8011508-BLK1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| Blank (8011508-BLK2) | | | 5 | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| LCS (8011508-BS1) | | 0.00 | ing/L | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.97 | 0.00 | | | | | | | | |
| | 1.97 | 0.08 | mg/L | 2.00 | | 98 | 90-110 | | | |
| LCS (8011508-BS2) | | | | | | | | | | |
| fotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.83 | 0.08 | mg/L | 2.00 | | 92 | 90-110 | | | |
| Duplicate (8011508-DUP3) Sou | rce: 0801106-0 | 1 | | | | | | | | |
| Cotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.90 | 0.08 | mg/L | | 3.19 | | | 10 | 20 | |
| Matrix Spike (8011508-MS3) Sou | rce: 0801106-0 | 2 | | | | | | 10 | 20 | |
| otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 5.70 | 0.16 | mg/L | 1.00 | 5.85 | NID | 05.445 | | | S-RI |
| Potob 9011602 The Little Lines | | | mg D | 1.00 | 5.85 | NR | 85-115 | | | |
| <u> Batch 8011602 = Total Kjeldahl Nitrog</u> | en, Total EPA | 351.2 | | | | | | | | |
| Blank (8011602-BLK1) | | | | | | | | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| lank (8011602-BLK2) | | | | | | | | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | · · · · · · · · · · · · · · · · · · · | | | | | |
| CS (8011602-BS1) | | | - | | | | | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 1.93 | 0.08 | mg/L | 2.00 | | | | | | |
| CS (8011602-BS2) | | | ing/L | 2.00 | | 96 | 90-110 | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 1.85 | 0.00 | | | | | | | | |
| | 1.05 | 0.08 | mg/L | 2.00 | | 92 | 90-110 | | | |
| uplicate (8011602-DUP1) Source | ce: 0801106-06 | | | | | | | | | D DE |
| tal Kjeldahl Nitrogen, Total EPA 351.2 | 6.60 | 0.32 | mg/L | | 8.62 | | | 27 | 20 | D-RE2 |
| atrix Spike (8011602-MS1) Source | ce: 0801106-07 | | | | | | | | 20 | |
| tal Kjeldahl Nitrogen, Total EPA 351.2 | 9.24 | 0.32 | mg/L | 4.00 | 8.10 | 28 | 95 115 | | | S-RE |
| | - D' | | 5 | | 0.10 | 20 | 85-115 | | | |
| atch 8011603 = Total Kialdahl Nites | I. DISSOIVED | PA 351.2 | | | | | | | | |
| atch 8011603 = Total Kjeldahl Nitroger | a, 2155017Cu 1 | | | | | | | | | |
| ank (8011603-BLK1) | | | | | | | | | | |
| | 0.08 U | 0.08 | mg/L | | | | | | | |

Serial: LAB-080130 31144

Page 14 of 21



| Wetlands Solutions Inc. | | |
|-------------------------|-----------------------------|----------------|
| 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 01/30/08 15:11 |
| | | |

Nutrients - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|------------------------|--------------------|--------------|----------------|------------------|------|----------------|-----|--------------|---------------|
| 3atch 8011603 = Total Kjeldahl Nitroge | en, Dissolved | EPA 351.2 | | | | | | | | |
| Blank (8011603-BLK2) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| LCS (8011603-BS1) | | | | | | | | | | |
| Fotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.89 | 0.08 | mg/L | 2.00 | | 94 | 90-110 | | | - 1. - |
| LCS (8011603-BS2) | | | - · | | | | | | | |
| Fotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.94 | 0.08 | mg/L | 2.00 | | 97 | 90-110 | | | |
| Duplicate (8011603-DUP1) Sour | 0001107.07 | | | 2.00 | | 51 | <i>J</i> 0-110 | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | ce: 0801106-06 4.79 | 0.08 | ma/I | | | | | - | | |
| | 4.75 | 0.08 | mg/L | | 4.44 | | | 8 | 20 | |
| | ce: 0801106-07 | | | | | | | | | |
| 'otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 9.40 | 0.32 | mg/L | 4.00 | 5.36 | 101 | 85-115 | | | |
| Batch 8011720 = Nitrate-Nitrite, Total E | PA 353.2 | | | | | | | | | |
| Blank (8011720-BLK1) | | | | | | | | | ······ | |
| Vitrate-Nitrite, Total EPA 353.2 | 0.003 U | 0.003 | mg/L | | | | | | | |
| Source (8011720-DUP1) | 0001107 01 | | U U | | | | | | | |
| Vitrate-Nitrite, Total EPA 353.2 | 0.003 U | 0.003 | mg/L | | 0.003 U | | | | • • | |
| | | 0.005 | mg/L | | 0.003 0 | | | | 20 | |
| Atrix Spike (8011720-MS1) Source litrate-Nitrite, Total EPA 353.2 Source | e: 0801106-02 | 0.002 | | | | | | | | |
| maio mino, Iolai Er A 555.2 | 0.405 | 0.003 | mg/L | 0.400 | 0.039 | 92 | 90-110 | | | |
| Reference (8011720-SRM1) | | | | | | | | | | |
| litrate-Nitrite, Total EPA 353.2 | 1.37 | 0.003 | mg/L | 1.38 | | 99 | 90-110 | | | |
| Reference (8011720-SRM2) | | | | | | | | | | |
| litrate-Nitrite, Total EPA 353.2 | 0.984 | 0.003 | mg/L | 1.00 | | 98 | 0-200 | | | |
| atch 8011802 = Total Kjeldahl Nitroger | Total EDA | 251 2 | | | | | | | | |
| | i, Iotai EPA | 351.2 | | | | | | | | |
| | | | | | | | | | | |
| lank (8011802-BLK1) | | | | | | | | | | |
| | 0.08 U | 0.08 | mg/L | | | | | | | |
| lank (8011802-BLK1) otal Kjeldahl Nitrogen, Total EPA 351.2 lank (8011802-BLK2) | 0.08 U | 0.08 | mg/L | | | | | | | |
| l ank (8011802-BLK1) otal Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U 0.08 U | 0.08 | mg/L mg/L | | | | | | | |
| lank (8011802-BLK1) otal Kjeldahl Nitrogen, Total EPA 351.2 lank (8011802-BLK2) | | | | | | | | | | |
| lank (8011802-BLK1) otal Kjeldahl Nitrogen, Total EPA 351.2 lank (8011802-BLK2) otal Kjeldahl Nitrogen, Total EPA 351.2 | | | | 2.00 | | 98 | 90-110 | | | |

Serial: LAB-080130 31144

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| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | | I Project Ma | | Reported: 01/30/08 15:11 | | | | | | |
|---|----------------------|--------------------|------------|------------------------------------|------------------|------|----------------|---|--|--------------|
| | | Nutrien | ts - Quali | ity Contr | ol | | | | | |
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 8011802 = Total Kjeldahl Nitroge | n. Total EP | A 351.2 | | | | | | | | |
| LCS (8011802-BS2) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 2.07 | 0.08 | mg/L | 2.00 | **** | 104 | 90-110 | | | |
| Duplicate (8011802-DUP1) Sour | ce: 0801106-(| ADE1 | Ũ | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 8.05 | 0.32 | mg/L | | 8.67 | | | 7 | 20 | |
| Matrix Spike (8011802-MS1) Sour | 0001107 0 | | 5 | | | | | , | 20 | (D . |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | ce: 0801106-0 | 0.32 | mg/L | 4.00 | 8.21 | 130 | 80-120 | | | S-RX- |
| | | | • | | 0.21 | 150 | 00-120 | | | |
| Batch 8011803 = Total Kjeldahl Nitroge | n, Dissolved | I EPA 351.2 | | | | | | | | |
| Blank (8011803-BLK1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| Blank (8011803-BLK2) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | : | | | |
| LCS (8011803-BS1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.99 | 0.08 | mg/L | 2.00 | | 100 | 90-110 | | | · · · · |
| LCS (8011803-BS2) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.00 | 0.08 | mg/L | 2.00 | | 100 | 90-110 | • • · · · · · · · · · · · · · · · · · · | | |
| Matrix Spille (9011902 MS2) | 0001107.0 | | Ũ | | | | | | | |
| Matrix Spike (8011803-MS2) Source Total Kjeldahl Nitrogen, Dissolved EPA 351.2 Source | e: 0801106-0 8.34 | 0.16 | mg/L | 2.00 | 6.16 | 109 | 85-115 | | ····· | |
| Total Agendant PriceBen, 20000000 DETE 551.2 | 0.54 | 0.10 | mg/L | 2.00 | 0.10 | 109 | 85-115 | | | |
| Batch 8012202 = Total Phosphorus, Tota | al EPA 365. | 3 (Spec) | WW.1 | · | | | | | | |
| Blank (8012202-BLK1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| Blank (8012202-BLK2) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | · | | | anna <u>nan</u> 1 <u>11 () () () () () () () () () (</u> | | |
| Blank (8012202-BLK3) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | ana ana amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o a | | |
| Blank (8012202-BLK4) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | ······································ | |
| | | | | | | | | | | |
| Blank (8012202-BLK5) Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/I | | | | | | | |
| | 0.000 U | 0.006 | mg/L | | | | | | | |
| Blank (8012202-BLK6) | | | | | | | | | | |

Serial: LAB-080130 31144

Page 16 of 21



| Wetlands Solutions Inc. | | | Decise 1 1 | . 11 | | | | | | |
|--|-----------------------------|--------------------|---|----------------|------------------|------|----------------|-----|--|-------|
| 2809 NW 161 Ct | | | Project: Lak | e Hancock | | | | | Report | ed: |
| Gainesville, FL 32609 | | Project N | Aanager: Ron | Clarke | | | | | 01/30/08 | |
| | | Nutrie | nts - Quali | ty Contr | ol | | | | | |
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 8012202 = Total Phosphor | us, Total EPA 365.3 | 3 (Spec) | | | | | | | | |
| Blank (8012202-BLK6) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| Duplicate (8012202-DUP2) | Source: 0801106-0 | 2 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.608 | 0.006 | mg/L | | 0.629 | | | 3 | 20 | |
| Reference (8012202-SRM1) | | | | | | | | 5 | 20 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.104 | 0.006 | mg/L | 0.108 | | 96 | 0-200 | | | |
| | | | iiig/L | 0.108 | | 90 | 0-200 | | | |
| Batch 8012303 = Phosphorus, Inc | organic in Sediment | t | | | | | | | | |
| Blank (8012303-BLK1) | | | | | | | | | | |
| Phosphorus, Inorganic in Sediment | 1.0 U | 1.0 | mg/kg wet | | | | | | | |
| 3lank (8012303-BLK2) | | | | | | | | | | |
| Phosphorus, Inorganic in Sediment | 14.5 | 1.0 | mg/kg wet | | | | | | | v |
| Duplicate (8012303-DUP2) | Sources 0801106 00 | ` | | | | | | | | · |
| Phosphorus, Inorganic in Sediment | Source: 0801106-09 64300 | 2240 | mg/kg dry | | 65000 | | | 1 | | |
| | | | mb ng uny | | 05000 | | | 1 | 20 | |
| Batch 8012410 = Total Phosphoru | is, Total EPA 365.3 | (Spec) | | | | | | | | |
| Blank (8012410-BLK1) | | | | | | | | | | |
| Otal Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | 1998 I I I I I I I I I I I I I I I I I I | |
| Blank (8012410-BLK2) | | | | | | | | | | |
| otal Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | ÷ | | | | | | |
| Duplicate (8012410-DUP2) | Source: 0801106-01 | RF1 | - | | | | | | | |
| otal Phosphorus, Total EPA 365.3 (Spec) | 0.882 | 0.030 | mg/L | | 0.909 | | | 3 | 20 | |
| Duplicate (8012410-DUP3) | 0 000445455 | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | 0.202 | | | 5 | 20 | |
| otal Phosphorus, Total EPA 365.3 (Spec) | Source: 0801106-03 0.813 | | | | | | | | | |
| our racophorus, rotai Li A 505.5 (spec) | 0.813 | 0.018 | mg/L | | 0.837 | | | 3 | 20 | |

| 1), (- F), | 0.015 | 0.010 | mg/L | | 0.857 | | | 3 | | 20 |
|--|-------------------|-------|------|------|-------|-----|--------|---|---------|----|
| Duplicate (8012410-DUP4) | Source: 0801106-0 | 4RE1 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.34 | 0.030 | mg/L | | 1.37 | | | 2 | | 20 |
| Duplicate (8012410-DUP5) | Source: 0801106-0 | 5RE1 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.815 | 0.030 | mg/L | | 0.815 | | | 0 | · · · · | 20 |
| Matrix Spike (8012410-MS1) | Source: 0801106-0 | 1RE1 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 2.27 | 0.031 | mg/L | 1.33 | 0.909 | 102 | 80-120 | | | |
| Reference (8012410-SRM1) | | | | | | | | | | |

Serial: LAB-080130 31144

Page 17 of 21



A. A. A.

ġ.

| Wetlands Solutions Inc. 2809 NW 161 Ct | | 1 | Project: Lal | ce Hancock | : | | | | Report | ed: |
|---|-----------------|--------------------|---------------------------------------|----------------|------------------|------|----------------|------------------|--------------|--|
| Gainesville, FL 32609 | | Project M | anager: Ro | n Clarke | | | | | 01/30/08 | 15:11 |
| | | Nutrien | ts - Qual | itv Contı | rol | | | | | |
| Analyte | Result | Reporting Limit | | Spike | Source | | %REC | | RPD | |
| | | | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 8012410 = Total Phosphorus, T | otal EPA 365. | 3 (Spec) | | | | | • | | | |
| Reference (8012410-SRM1) Fotal Phosphorus, Total EPA 365.3 (Spec) | 0.103 | 0.006 | mg/L | 0.108 | | 95 | 0-200 | | | |
| Batch 8012505 = Total Kjeldahl Nitro | gen, Total EP | A 351.2 | | | | | | | | |
| Blank (8012505-BLK1) | •• | | | | | -ii | | | · | · · · · · · · · · · · · · · · · · · · |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| LCS (8012505-BS1) | | | | | | | | | | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 1.82 | 0.08 | mg/L | 2.00 | | 91 | 90-110 | | | |
| Matrix Spike (8012505-MS1) Sou | urce: 0801106-(| 7RE2 | | | | | | | | S-CO |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 11.2 | 0.32 | mg/L | 4.00 | 8.40 | 70 | 80-120 | | | 5-00 |
| | | | | | | | | | | |
| | | Mineral | s - Quali | ty Contr | ol | | | 4 - ¹ | | |
| | | Domostin - | · · · · · · · · · · · · · · · · · · · | | 2 | | | | | |
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| 3 Batch 8011706 = Sulfate, Total EPA 3 | 75.4 | | ······ | | | | | | | |
| Blank (8011706-BLK1) | | | | | | | | | | |
| Sulfate, Total EPA 375.4 | 0.20 U | 0.20 | mg/L | | | | | | | a barran da barran d |
| Reference (8011706-SRM1) | | | C | | | | | | | |
| Sulfate, Total EPA 375.4 | 24.9 | | mg/L | 24.8 | | 100 | 90-110 | | | |
| Batch 8012215 = Sulfate, Total EPA 3' | 75 A | | - | | | | | | | |
| | / 3.4 | | | | | | | | | |
| Blank (8012215-BLK1) ulfate, Total EPA 375.4 | 1.00 U | 20 | mg/L | | | | | | | |
| | | | mg/L | | | | | | | |
| Reference (8012215-SRM1) ulfate, Total EPA 375.4 | 26.3 | | mall | 24.9 | | 100 | | | | |
| | 20.5 | | mg/L | 24.8 | | 106 | 90-110 | | | |

Metals by EPA 200 Series Methods - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|----------------------------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Batch 8011413 = ICP Metals | | | | | | | | | | |

Serial: LAB-080130 31144



Wetlands Solutions Inc. 2809 NW 161 Ct

Gainesville, FL 32609

Project: Lake Hancock

Project Manager: Ron Clarke

Reported: 01/30/08 15:11

Metals by EPA 200 Series Methods - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------------|--------------------|--------------------|--------------|----------------|------------------|---------|----------------|------|--------------|--------|
| Batch 8011413 = ICP Metals | | | | | | | | 14.5 | | INDICS |
| Blank (8011413-BLK1) | | | | | | | | | | |
| Aluminum Total EPA 200.7/6010 (ICP) | 13.9 U | 13.9 | ug/L | | | | | | | |
| Calcium Total EPA 200.7/6010 (ICP) | 0.02 U | 0.02 | mg/L | | | | | | | |
| Iron Total EPA 200.7/6010 (ICP) | 3.5 | 0.7 | ug/L | | | | | | | |
| LCS (8011413-BS1) | | | 0 | | | | | | | v |
| Iron Total EPA 200.7/6010 (ICP) | 101 | 0.7 | | | | | | | | |
| Calcium Total EPA 200.7/6010 (ICP) | 9,53 | 0.02 | ug/L | 100 | | 101 | 85-115 | | | |
| Aluminum Total EPA 200.7/6010 (ICP) | 94.0 | 13.9 | mg/L | 10.0 | | 95 | 85-115 | | | |
| | | | ug/L | 100 | | 94 | 85-115 | | | |
| Duplicate (8011413-DUP1) | Source: 0801106-01 | | | | | | | | | |
| ron Total EPA 200.7/6010 (ICP) | 1420 | 0.7 | ug/L | | 1430 | | | 0.7 | | |
| Calcium Total EPA 200.7/6010 (ICP) | 34.9 | 0.02 | mg/L | | 35.4 | | | 0.7 | 20 | |
| Aluminum Total EPA 200.7/6010 (ICP) | 347 | 13.9 | ug/L | | 347 | | | 0 | 20 20 | |
| Matrix Spike (8011413-MS1) | Source: 0801106-02 | | | | | | | U | 20 | |
| ron Total EPA 200.7/6010 (ICP) | 383 | 0.7 | ug/L | 100 | 200 | | | | | |
| Aluminum Total EPA 200.7/6010 (ICP) | 317 | 13.9 | ug/L ug/L | 100 | 290 | 93 | 75-125 | | | |
| Calcium Total EPA 200.7/6010 (ICP) | 45.2 | 0.02 | mg/L | 10.0 | 241 | 76 | 75-125 | | | |
| ost Spike (8011413-PS1) | | | ing/L | 10.0 | 35.7 | 95 | 75-125 | | | |
| | Source: 0801106-02 | | | | | | | | | |
| on Total EPA 200.7/6010 (ICP) | 5390 | | ug/L | 5310 | 281 | 96 | 75-125 | | | |
| luminum Total EPA 200.7/6010 (ICP) | 5350 | | ug/L | 5310 | 233 | 96 | 75-125 | | | |
| alcium Total EPA 200.7/6010 (ICP) | 80.4 | | mg/L | 49.0 | 34.5 | 94 | 75-125 | | | |
| | | | | | | <i></i> | , 5-125 | | | |

Metals by EPA 6000/7000 Series Methods - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|-----------------------|----------------------|-------------------------------------|-----------------------|------------------|-----------------|----------------------------|-----|--------------|--------|
| Batch 8011411 = ICP Metals | | | | | | | | | Linit | INDIES |
| Blank (8011411-BLK1) | | | | | | | | | | |
| Iron Sediment EPA 6010B (ICP) Calcium Sediment EPA 6010B (ICP) Aluminum Sediment EPA 6010B (ICP) | 1.0 4.52 3.6 U | 0.1 0.002 3.6 | mg/kg wet mg/kg wet mg/kg wet | | | | | | | v v |
| LCS (8011411-BS1) | | | | | | | | | | |
| Calcium Sediment EPA 6010B (ICP) Iron Sediment EPA 6010B (ICP) Aluminum Sediment EPA 6010B (ICP) | 6630 11900 8840 | 0.008 0.4 13.6 | mg/kg wet mg/kg wet mg/kg wet | 6740 15100 8720 | | 98 79 101 | 85-115 85-115 85-115 | | | CUST |

Serial: LAB-080130 31144



Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609

Project: Lake Hancock

Project Manager: Ron Clarke

Reported: 01/30/08 15:11

Metals by EPA 6000/7000 Series Methods - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------------------|--------------------|-----------|----------------|------------------|------|----------------|------|--------------|--|
| Batch 8011411 = ICP Metals | | | | | | | | | | |
| Duplicate (8011411-DUP2) | Source: 0801106-1 | 0 | | | | | | | | |
| Aluminum Sediment EPA 6010B (ICP) | 68100 | 203 | mg/kg dry | | 77600 | | | 13 | 20 | |
| Iron Sediment EPA 6010B (ICP) | 22700 | 5.6 | mg/kg dry | | 26900 | | | · 17 | 20 | |
| Calcium Sediment EPA 6010B (ICP) | 87900 | 0.11 | mg/kg dry | | 104000 | | | 17 | 20 | |
| Matrix Spike (8011411-MS2) | Source: 0801106-1 | L · | | | | | | | | |
| Aluminum Sediment EPA 6010B (ICP) | 56000 | 295 | mg/kg dry | 20.5 | 54500 | NR | 75-125 | - | | PSIN |
| Calcium Sediment EPA 6010B (ICP) | 101000 | 0.16 | mg/kg dry | 2050 | 95600 | 263 | 75-125 | | | PSIN |
| fron Sediment EPA 6010B (ICP) | 25700 | 8.2 | mg/kg dry | 20.5 | 26100 | NR | 75-125 | | | PSIN |
| Matrix Spike Dup (8011411-MSD2) | Source: 0801106-11 | L | | | | | | | | |
| Iron Sediment EPA 6010B (ICP) | 26900 | 7.6 | mg/kg dry | 19.0 | 26100 | NR | 75-125 | NR | 20 | PSIN |
| Calcium Sediment EPA 6010B (ICP) | 106000 | 0.15 | mg/kg dry | 1900 | 95600 | 547 | 75-125 | 70 | 20 | PSIN |
| Aluminum Sediment EPA 6010B (ICP) | 57000 | 274 | mg/kg dry | 19.0 | 54500 | NR | 75-125 | 57 | 20 | PSIN |
| Post Spike (8011411-PS2) | Source: 0801106-11 | l | | | | | | | | |
| Calcium Sediment EPA 6010B (ICP) | 73.5 | | mg/L | 48.6 | 27.5 | 95 | 75-125 | | | 10-5-1-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5 |
| Aluminum Sediment EPA 6010B (ICP) | 20700 | | ug/L | 5290 | 15700 | 95 | 75-125 | | | |
| ron Sediment EPA 6010B (ICP) | 12500 | | ug/L | 5290 | 7500 | 95 | 75-125 | | | |



| 2809 NW | | Project: Lake Hancock | Reported: | | | | | | | | | |
|----------|--|---|------------------------|--|--|--|--|--|--|--|--|--|
| Gainesvi | lle, FL 32609 | Project Manager: Ron Clarke | 01/30/08 15:11 | | | | | | | | | |
| | | NOTES AND DEFINITIONS | | | | | | | | | | |
| v | Analyte present in blank and samples. | | | | | | | | | | | |
| S-RX+ | Poor matrix spike recovery on reextrac | ; results or recoveries do not confirm; created rextract. | | | | | | | | | | |
| S-REX | Poor matrix spike recovery; created ree | xtract. | | | | | | | | | | |
| S-CON | Poor matrix spike recovery on reextract | covery on reextract; results and recoveries confirm. | | | | | | | | | | |
| PSIN | Poor matrix spike recovery; post digest | rery; post digestion spike within acceptance criteria. | | | | | | | | | | |
| NT | Result is for a nontarget analyte. | | | | | | | | | | | |
| D-RNG | The difference of the concentrations of when the range is at this level the samp | the sample and its duplicate is low in comparison to the MDL. It is the general policy e is not rerun and the data is considered acceptable. | of the laboratory that | | | | | | | | | |
| D-REX | Poor duplicates; Created reextract. | | | | | | | | | | | |
| CUST | ERA limits 8660-21600mg/kg | | | | | | | | | | | |
| U | Analyte not detected at or above the me | thod detection limit | | | | | | | | | | |
| I | Analyte not detected above the practical | quantitation limit. | | | | | | | | | | |
| NR | Not Reported | | | | | | | | | | | |
| dry | Sample results reported on a dry weight | basis | | | | | | | | | | |
| RPD | Relative Percent Difference | | | | | | | | | | | |
| | | | | | | | | | | | | |

CASE NARRATIVE

Sample 0801106-02 (W-2) was reanalyzed for TKN-Dissolved due to an initial matrix spike result that was outside of control limits. The reanalysis QC met acceptable criteria. The reanalysis result is reported.

Sample 0801106-06 (C-1) was reanalyzed for TKN-Total due to an initial duplicate results that was outside of control limits. The reanalysis duplicate confirmed the original run and the reanalysis QC was within acceptable limits. The reanalysis result is reported.

Sample 0801106-07 (C-2) was reanalyzed for TKN-Total due to an initial matrix spike result that was outside of control limits. The reanalysis result was also outside of limits, confirming a matrix effect for this sample. The sample results confirmed the original results and the reanalysis result is reported.

Signature Date / Time Company Wetland Solutions, Inc Henry Brennan No samples filtered in field No ChI a this month. Special Instructions/Comments: Printed Name Matrix: SW (Surface Water), GW (Ground Water), S (Soil), P (Periphyton) **TURN AROUND TIME: PROJECT MANAGER:** 1/10/2008 1/10/2008 1/10/2008 /10/2008 /10/2008 /10/2008 1/10/2008 1/10/2008 1/10/2008 1/10/2008 1/10/2008 /10/2008 1/10/2008 1-11-08 DATE **RELINQUISHED BY:** 1530 ADDRESS: PROJECT: Ì Ì 1505 PHONE: 1259 1520 E-MAIL: 1435 1353 1249 8251 1320 TIME 1550 1613 104 FAX: 8880 2809 NW 161 Court, Gainesville, FL 32609 Chris Keller Lake Hancock Vegetation Study ckeller@wetlandsolutionsinc.com (386) 462-9286 (386) 462-3196 × SAMPLE I. D. <u>.</u> ₩-4 ₩-3 **∀**-2 **×-**† **₩-**5 ×-4 **₩-**2 C-2 ×-3 ဂု လ ₹-1 $\tilde{\mathcal{C}}$ Signature/ Company Date / Time Printed Name L'lon Lin Standard 1-11-08 AEL 7.2.0 RECEIVED BY: MATRIX WS WS WS WS WS WS ¢≹ 0440 S XSW S ഗ S S S Rush COMP COMP GRAB/ COMP COMP COMP COMP/C2 COMP GRAB GRAB **CPAB** GRAB GRAB GRAB GRAB Signature Date / Time Company Printed Name TSS ᡟ × × × × × × ANALYSIS REQUESTED × NH3 / NO3 / TKN / TKN Dis 7 × × × × **RELINQUISHED BY:** × PRESERVATIVE Wetland Solutions, Finc. 件 TP / Ortho-P × × × × × × × × × × × × CHAIN-OF-CUSTODY FORM ¥ × × × × × × × Ca, Fe, Al × × × × × ¥ × S04 × × × × × × × × × × × × × × × × × Bulk Density / % Solids Date / Time Company Printed Name Signature 1. HCL 2. NHO3 0. NONE LAB: Advanced Environmental **REMARKS / ALTERNATE DESC** Laboratories, Inc. Page PRESERVATIVE KEY RECEIVED BY: 5. Other 4. Sodium Thiosulfate 3. H2SO4 ----오 ¢ N -09 50 -10 i V ŝ -04 303 é 102

mo/0801106

C. 2

5.4.5

| Received on ice: get | Ret. / Via: D/1 3 1 1 1 4 1 | mple Kit Cooler # 1 D/T 2 2 | $I = ICe$ $H = (HCI)$ $S = (H_2SO_4)$ $N = (HNO_3)$ $I = (Sodium Thiosulfate)$ Relinquished by: Date | | | | 5 08230 | SAMPLE ID SAMPLE DESCRIPTION Grab Composite SAMPLING MATRIX NO. | WW= waste water SW=surface water GW=ground water DW=drinking water OIL A=air SO=soil SL=sludge | | STANDARD | TURN AROUND TIME: REMARKS / SPECIAL INSTRUCTIONS: | ^{ót:} bris Keller | PHONE: FAX: (386) 462 - 9286 (386) 462-3196 | niwesu | $\frac{2}{80} + \frac{2}{16} + \frac{1}{16} $ | land Salutions in Lake Haurank | Orlando: 528 S. North Lake Blvd., Suite 1016, Altamonte Springs, FL 32701 • (407) 937-1594 Fax (407) 937-1597 | | phtal Laboratories, Inc. wile: 6601 Southpoint Parkway, Jacksonville, FL 32216 • (904) 363-9350 Fax (904) 363-9354 | fidvanced CHAIN OF CUSTODY RECORD |
|---|---|---|--|------|------|------|-------------|--|--|--------------------------|----------|---|-------------------------------|--|--------|--|--------------------------------|---|------------|--|-----------------------------------|
| | | | Time | | | | | | Preserv | | | | | | | A R | SIZE & | | | | 1 |
| | | | | | | | × | | | TP, | 0 | P | | | | | | | | LAB |] |
| | | | Rece | | | | X | | | ТР, Са, 50 Ви/к | Fc, | , A | 2 | | | | | | | LAB NUMBER: | |
| revised 8/01 | | | Received by: | | | | × × | | | 50 | ¥ | | | | , , | | | _ | | | |
| 8/01 | | | •• | | | | | | | Bu/K | De | nsi t | · /• / | 650 | lids | | | aye | Dana | 9011080 | |
| | | | Date | | | | | | | | | | | | | | | | | 06 | |
| | | | Time | | | | 1 | | | | | נכ | mϲ | cz | B > | | • <u></u> | | - h | | |
| L | | | | | | | /* | | | | | | | | | | | | | | |

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Advanced Environmental Labs Inc

Advanced Environmental Labs 6815 SW Archer Rd. Gainesville, FL 32608

| Client: wetland Solutions | Project name: La Kc HANCOCK |
|------------------------------|-----------------------------|
| Date/Time Rcvd: 1-11-08 0890 | Log-In request number: |
| Received by: <u>p/</u> | Completed by: <u>P/</u> |

Cooler/Shipping Information:

Courier:
AEL DI Client UPS Pony Express FedEx Blue Streak ASAP Other (describe): _____

Type: Cooler D Box D Other (describe) <u>Used LT-1 mini temp. F.S.</u>

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

| Cooler ID | <u> </u> | C-2 | | - | |
|-----------------|-------------------------------|---------------------------------|---|---|---|
| Temp (°C) | 2.2 | 5.4 | | | |
| Temp taken from | □ Temp blank Sample bottle | ☐ Temp blank ☐ Sample bottle | Temp blank | Temp blank | Temp blank |
| Tama | 🗷 IR gun | 🖸 IR gun | □ Sample bottle □ IR gun □ Thermometer (enter ID); | □ Sample bottle □ IR gun □ Thermometer (enter ID): | □ Sample bottle □ IR gun □ Thermometer (enter ID): |

Other Information:

Any "NO" responses or discrepancies should be explained in the "Comments" section below.

| CHECKLIST | YES | NO | B T 4 |
|--|-----|----------|--------------|
| 1. Were custody seals on shipping container(s) intact? | 115 | NO | |
| 2. Were custody papers properly included with samples? | | | |
| 3. Were custody papers properly filled out (ink, signed, match labels)? | × | | |
| 4. Did all bottles arrive in good condition (unbroken)? | | <u> </u> | |
| 5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)? | X | | |
| 6. Did the sample labels agree with the chain of custody? | X | | |
| 7. Were correct bottles used for the tests indicated? | X | | |
| 8. Were proper sample preservation techniques indicated on the label? | × | | |
| Were samples received within holding times? | X | | |
| 10 Were all VOA vials checked for the | X | - | |
| 10. Were all VOA vials checked for the presence of air bubbles? | | | X |
| 11. Were there air bubbles present in the VOA vials? | | | X |
| 12. Were samples in direct contact with wet ice? If "No," check one: □ NO ICE □ BLUE ICE | X | | |
| 15. Was the cooler temperature less than $6^{\circ}C?$ | | | |
| 14. Were sample pHs checked and recorded by Sample Control? | × | | |
| NOTE: VOA samples are checked by laboratory analysis | | | |
| 15. Were the sample containers provided by AEL? | | | |
| 16. Were samples accepted into the laboratory? | × | | |
| | X | | |

Comments:

Diferent matrix were included in the same line on the C.O.C.



REPORT OF SOIL TESTING

Project: Lake Hancock Vegitation Study

Project Number: 6738-03-4343-03

Client: Advanced Environmental Laboratories, Inc.

Date: January 23, 2008

As requested by Karen Daniels of Advanced Environmental Laboratories, Inc., MACTEC Engineering & Consulting Inc. has completed Bulk Density with Moisture Content testing of six samples that were delivered to our Jacksonville office on January 15, 2008. The results are outlined below.

| | · | | | | | |
|------------|-----------|-----------------------------|-----------------------------|-------------------|---------------------------|---------------------------|
| Sample No. | Sample ID | Percent Moisture (% Wet) | Percent Moisture (% Dry) | Percent Solids | Bulk Density pcf (wet) | Bulk Density pcf (dry) |
| 0801106-08 | W-1 | 51.1 | 104.5 | 48.9 | 88.9 | 43.5 |
| 0801106-09 | W-2 | 53.6 | 115.4 | 46.4 | 101.6 | 47.2 |
| 0801106-10 | W-3 | 54.9 | 121.8 | 45.1 | 91.7 | 41.3 |
| 0801106-11 | W-4 | 59.5 | 146.9 | 40.5 | 86.7 | 35.1 |
| 0801106-12 | C-1 | 53.0 | 112.9 | 47.0 | 98.6 | 46.3 |
| 0801106-13 | C-2 | 55.3 | 123.7 | 44.7 | 87.9 | 39.3 |

Respectfully Submitted,

Mike Holm, P.E

| Heceived on Ice: U yes | | Out: / / Via: (| | | | | | | | 02010 | טאואדרב וט | CAMPIE ID | | DARD | TURN AROUND TIME: | CONTACT: | PHONE: | | AUDRESS: | . Acc | CLIENT NAME: | | | |
|------------------------|----------------|-------------------------|------------------------|-----|----------|-----------------------------|--|----|------|-------------|-------------------|-------------------|-----|--------------------|-----------------------|-------------|----------------|-------------------|-------------------------------|-----------------------------|-------------------------|---|---------------------------------------|----------|
| | AB Trip BI. | a: A RB | 2 T) = 0 | | n . N | | utilitation reception | | 09 | 30-9(| SAMPLE | SW=surface water | | 20 122 h 20 | D TIME: | Kada D | 1 . 4 . 1 . 2 | 202 V | 415 5W/ | - 6×10 - | | Tampa: Gainesville: Orlando: | | Havanced |
| sent | | <pre>(it Cooler #</pre> | (HNO ₃) T | 6-1 |) | ł | 2 - 13 | | 2-12 | W/~ 1 | LE DESCRIPTION | | | A A | REMARKS / S | Kara S | FAX: | FC 3260 | | 1. I. S | | 9610 Princess Palm Aven 3815 SW Archer Road, G 528 S. North Lake Blvd. | Jacksonville: 6601 Southpoint Parkway | |
| | 4 <u>3</u> 2 | | = (Sodium Thiosulfate) | | | 100 Million Baldy States of | | | | 0 | Composite | DW=drinking water | | 21100 (D) 21 0 112 | SPECIAL INSTRUCTIONS: | SAMPLED BY: | | PROJECT LOCATION: | P.O. NUMBER | | PROJECT NAME: | 9610 Princess Palm Avenue, Tampa, FL 32216 • (904) 363-3500 (Pax (904) 363-9354 9610 Princess Palm Avenue, Tampa, FL 33619 • (813) 630-9616 Fax (813) 630-4327 6815 SW Archer Road, Gainesville, FL 32608 • (352) 377-2349 Fax (352) 395-6639 528 S. North Lake Blyd, Suite 1016 Alternote Series El 30201 • (352) 35-6639 | lacksonville El 20016 | 2 |
| | | Eller 2 | Relinguished by: | | | | •••••••••••••••••••••••••••••••••••••• | | | | | ₽F | | | · · | | | DCATION: | P.O. NUMBER / PROJECT NUMBER: | | AME: | (904) 363-9350 Fax (904) 13) 630-9616 Fax (813) (2) 377-2349 Fax (352) 3 | | |
| | | | | 8 | C | N | 0 | J. | | 30 | TIME MATRIX CONT. | SO=s | | đ | | | ŝ | | IBER: | 2 | 137-1594 Fax (407) 937- | 4) 363-9354 630-4327 95-6639 | | |
| | | $\frac{2}{2}$ | Date Time | | | | | | | ***ivejiec, | CONT. | SL=sludge Preserv | | | | O m : | S → L S → C | | | BOTTLE SIZE & TYPE | | | | |
| revised 8/01 | | - received by. | Denoitod bu: | | × | | < | | | × | | | ĔIJ | 1.k | <u>De</u> . | A#31 | 134 | | | | | | LAB NUMBER: | |
| | | Date | , | | | | | | | | | | | | | | | | | | | Pane 6 | | |
| | | lime | ! | | | | | | | | | | | | m Œ | m≤⊂ | z | ₽≥г | • • • | | | | | |

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6815 SW Archer Road Gainesville, Florida 32608 (352) 377-2349 FAX (352) 395-6639

February 7, 2008

Serial: LAB-08027 44236

Ron Clarke Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609

RE: Lake Hancock Work Order: 0801106 - REVISED

Enclosed are the results of analyses for samples received by the laboratory on January 11, 2008.

All data were determined in accordance with published procedures (EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Rev March 1983; and Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992). Our laboratory is certified by Florida Department of Health (FDH No. E82001).

All results were determined in accordance with NELAP requirements and in accordance with the chain of custody document unless noted in the report case narrative or data report. All data is subject to a degree of uncertainty. For a discussion of laboratory uncertainty, please contact your project manager. This analytical report must be reproduced in its entirety.

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

Sincerely,

Karen Daniels Operations Manager kdaniels@aellab.com

Advanced Environmental Laboratories

Page 1 of 21

NELAC requires that any value reported be listed as having less certainty if the result is between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ). The levels shown in the table below are the laboratories MDL and LOQ. Any result reported that falls between these two values should be considered to have less certainty.

| Analyte Annonia | units | 411CUL021 | MDL | LOQ |
|--|---|-------------------|-------|----------|
| Chloride | mg/L | EPA 350.1 | 0.009 | 0.0 |
| Chronium +6 | mg/L | EPA 325.2 | 0.12 | |
| COD | ug/L | 3500CrB, EPA 7196 | 4.5 | 7. |
| Conductivity | me/L | EPA 410.4 | 6.2 | 7. |
| Cvanide | uS/cm | EPA 120.1 | 9.2 | 14. |
| Fluoride (undistilled) | me/L | 335.2,9010/9014 | 0.002 | 0.00 |
| Kjeldahl Nitrogen (Alpkem - CuSO4 digestion) | mg/L | EPA 340.2 | 0.02 | 0.0 |
| Nitrite (Spectrophotometer) | mg/L | EPA 351.2 | 0.08 | 0. |
| Nitrite/Nitrate | mg/L | EPA 353.3 | 0.004 | 0.00 |
| Dızanic Caibon | mg/L | EPA 353.2 | 0.003 | 0.00 |
| Ortho Phosphorus, Genesys II | mg/L | EPA 415.2 | 0.7 | - |
| Dissolved Silica | mg/L | EPA 365.2 | 0.002 | 0.004 |
| Sulfate | mg/L | EPA 370.1 | 0.05 | 1 |
| Fotal Carbon | mg/L | EPA 375.4 | 0.33 |] |
| Fotal Phosphorus, Spec - Genesys II | | EPA 415.2 | 0.5 | - |
| Fotal Phosphorus, Alpkern | mg/L | EPA 365.3 | 0.006 | 0.00 |
| Subidity | mg/L | EPA 365.1 | 0.002 | 0.006 |
| ilver | NTU | EPA 180.1 | 0.03 | 0.1 |
| 'n | ug/L | EPA 272.2/7761 | 0.1 | 0.16 |
| birrinim | ug/L | EPA 282.2/7871 | 1.8 | 3.12 |
| ntimony | ug/L | EPA 200.7/6010 | 13.9 | ຠ |
| .senic | ug/ <u>L</u> | EPA 200.7/6010 | 2.9 | 50 |
| arnım | ug/L | EPA 200.7/6010 | 2.3 | SO |
| eryllium | ug/L | EPA 200.7/6010 | 0.2 | N |
| om | | EPA 200.7/6010 | 0.10 | 50 |
| admium | og/L | EPA 200.7/6010 | 1.5 | 50 |
| alcium | | EPA 200.7/6010 | 0.4 | 50 |
| wonwim | š | EPA 200.7/6010 | 0.02 | 0.05 |
| obalt | | EPA 200.7/6010 | 0.4 | SO |
| opper | | EPA 200.7/6010 | 0.4 | SO |
| m | | EPA 200.7/6010 | 0.4 | |
| ad | | EPA 200.7/6010 | 0.7 | 50 |
| agnesium | | EPA 200.7/6010 | 1.9 | |
| arganese | | EPA 200.7/6010 | 0.014 | 0.05 |
| alybdenim | | EPA 200.7/6010 | 0.15 | <u> </u> |
| ckel | 이 같은 것 같은 | EPA 200.7/6010 | 0.7 | 50 |
| tæsium | 3 | EPA 200.7/6010 | 0.7 | 50 |
| enium | | EPA 200.7/6010 | 0.006 | 0.05 |
| lium | | SPA 200.7/6010 | 2.4 | 50 |
| <u>ortium</u> | | CPA 200.7/6010 | 0.065 | 0.1 |
| allium | | SPA 200.7/6010 | 0.19 | 30 |
| mum | | CPA 200.7/6010 | 3.6 | 50 |
| nadium | | PA 200.7/6010 | 0.26 | |
| 2 | | PA 200.7/6010 | 0.5 | 50 |
| | ug/L F | PA 200.7/6010 | 1.65 | 50 |

Serial: LAB-08027 44237

Page 2 of 21

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6815 SW Archer Rd Read Gainesville, FL 32608 Environmental Laboratories, Inc. 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001 Wetlands Solutions Inc. 2809 NW 161 Ct Project: Lake Hancock Gainesville, FL 32609 **Reported:** Project Manager: Ron Clarke 02/07/08 16:42 ANALYTICAL REPORT FOR SAMPLES Sample ID Laboratory ID Matrix **Date Sampled** Date Received W - 1 0801106-01 Water 01/10/08 12:59 01/11/08 08:40 W - 2 0801106-02 Water 01/10/08 13:20 01/11/08 08:40 W - 3 0801106-03 Water 01/10/08 13:38 01/11/08 08:40 W - 4 0801106-04 Water 01/10/08 13:53 01/11/08 08:40 W - 5 0801106-05 Water 01/10/08 16:13 01/11/08 08:40

Water

Water

Soil

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01/10/08 10:44

01/10/08 12:49

01/10/08 14:35

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01/10/08 15:30

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0801106-06

0801106-07

0801106-08

0801106-09

0801106-10

0801106-11

0801106-12

0801106-13

C-1

C-2

W-1

W-2

W-3

W-4

C-1

C-2



Wetlands Solutions Inc. 2809 NW 161 Ct

Gainesville, FL 32609

Project: Lake Hancock

Project Manager: Ron Clarke

Reported: 02/07/08 16:42

REPORT OF RESULTS

W - 1

0801106-01 (Water)

| Analysis | Result | Reporting Limit | Units | | _ | | | |
|--|---------|--------------------|-------|----------|---------|----------|----------------|-------|
| Aluminum Total EPA 200.7/6010 (ICP) | | | | Dilution | Batch | Prepared | Analyzed | Notes |
| | 347 | 13.9 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 15:45 | |
| Ammonia, Total EPA 350.1 | 0.030 I | 0.009 | mg/L | 1 | | | | |
| Calcium Total EPA 200.7/6010 (ICP) | 35.4 | 0.02 | - | 1 | 8011505 | 01/15/08 | 01/15/08 14:27 | |
| Iron Total EPA 200.7/6010 (ICP) | | 0.02 | mg/L | 1 | 8011413 | 01/14/08 | 01/16/08 15:45 | |
| | 1430 | 0.7 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 15:45 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.003 U | 0.003 | mg/L | 1 | | | | V |
| Soluble Reactive Phosphate EPA 365.2 | 0.023 | | mg/L | 1 | 8011720 | 01/17/08 | 01/18/08 12:01 | |
| Sulfate, Total EPA 375.4 | 0.025 | 0.002 | mg/L | 1 | 8011110 | 01/11/08 | 01/11/08 17:00 | |
| | 9.57 | 0.33 | mg/L | 1 | 8011706 | 01/17/08 | 01/17/08 10:45 | |
| Fotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.19 | 0.08 | - | | | 01/1//08 | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | | | mg/L | 1 | 8011508 | 01/15/08 | 01/17/08 00:00 | |
| | 5.55 | 0.16 | mg/L | 2 | 8011507 | 01/15/08 | 01/17/08 00:00 | |
| Total Suspended Solids EPA 160.2 - 100mL | 36.0 | 2.0 | mg/L | 1 | 9011100 | | | |
| | | | | 1 | 8011102 | 01/11/08 | 01/11/08 09:34 | |

W - 1

0801106-01RE1 (Water)

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzad | |
|--|--------|--------------------|-------|----------|---------|----------|-------------------------|-------|
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.909 | 0.030 | mg/L | 5 | 8012410 | 01/25/08 | Analyzed 01/25/08 13:00 | Notes |
| | | W - 1 | 2 | | | | | |

0801106-02 (Water)

| Analysis | Result | Reporting Limit | ¥ I | | | | | |
|---|--------|--------------------|-------|---------------------------------|---------|----------|----------------|----------|
| Aluminum Total EPA 200.7/6010 (ICP) | | | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| . , | 241 | 13.9 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 16:05 | |
| Ammonia, Total EPA 350.1 | 1.60 | 0.027 | mg/L | 3 | 8011505 | | 01/15/00 14 00 | |
| Calcium Total EPA 200.7/6010 (ICP) | 35.7 | 0.02 | - | 5 | 8011305 | 01/15/08 | 01/15/08 14:32 | |
| ron Total EPA 200.7/6010 (ICP) | | | mg/L | 1 | 8011413 | 01/14/08 | 01/16/08 16:05 | |
| | 290 | 0.7 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 16:05 | v |
| Nitrate-Nitrite, Total EPA 353.2 | 0.039 | 0.003 | mg/L | · · · · · · · · · · · · · · · · | 8011720 | | | v |
| oluble Reactive Phosphate EPA 365.2 | 0.053 | 0.002 | - | | | 01/17/08 | 01/18/08 12:03 | |
| ulfate, Total EPA 375.4 | | | mg/L | 1 | 8011110 | 01/11/08 | 01/11/08 17:00 | |
| | 11.2 | 0.33 | mg/L | 1 | 8011706 | 01/17/08 | 01/17/08 10:45 | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 7.45 | 0.16 | mg/L | 2 | 8011507 | | | |
| otal Phosphorus, Total EPA 365.3 (Spec) | 0.629 | 0.006 | ÷ | 2 | | 01/15/08 | 01/17/08 00:00 | |
| otal Suspended Solids EPA 160.2 - 100mL | | | mg/L | 1 | 8012202 | 01/22/08 | 01/23/08 16:30 | |
| | 13.0 | 2.0 | mg/L | 1 | 8011102 | 01/11/08 | 01/11/08 09:34 | |
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| Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | | | | | | | Reported: 02/07/08 16:42 | | |
|--|--|-------------------------|---------|----------|---------|----------|----------------|---------------------------------|--|--|
| | | - W 0801106-02R | |) | | | | - | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 6.16 | 0.16 | mg/L | 2 | 8011803 | 01/18/08 | 01/24/08 00:00 | | | |
| | | 0801106-03 Reporting | (Water) | | | | | | | |
| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes | | |
| Aluminum Total EPA 200.7/6010 (ICP) | 466 | 13.9 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 16:33 | | | |
| Ammonia, Total EPA 350.1 | 0.037 | 0.009 | mg/L | 1 | 8011505 | 01/15/08 | 01/15/08 14:28 | | | |
| Calcium Total EPA 200.7/6010 (ICP) | 39.2 | 0.02 | mg/L | 1 | 8011413 | 01/14/08 | 01/16/08 16:33 | | | |
| ron Total EPA 200.7/6010 (ICP) | 144 | 0.7 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 16:33 | v | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.008 I | 0.003 | mg/L | 1 | 8011720 | 01/17/08 | 01/18/08 12:12 | v | | |
| Soluble Reactive Phosphate EPA 365.2 | | | - | | | | | | | |

| Analysis | _ | Reporting | | | | | | |
|--|--------|-----------|-------|----------|---------|----------|----------------|-------|
| | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.837 | 0.018 | mg/L | 3 | 8012410 | 01/25/08 | 01/25/08 13:00 | |

W - 3 0801106-03RE1 (Water)

0.33

0.08

0.08

2.0

mg/L

mg/L

mg/L

mg/L

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1

8011706

8011508

8011507

8011102

01/17/08

01/15/08

01/15/08

01/11/08

01/17/08 10:45

01/17/08 00:00

01/17/08 00:00

01/11/08 09:34

12.2

2.22

2.99

9.0

Sulfate, Total EPA 375.4

Total Kjeldahl Nitrogen, Dissolved EPA 351.2

Total Kjeldahl Nitrogen, Total EPA 351.2

Total Suspended Solids EPA 160.2 - 100mL



| Wetlands Solutions Inc. | | | | | | | | - 211 //12 |
|---|--|--------------------|-------|----------|---------|----------|----------------|--------------------|
| 2809 NW 161 Ct Gainesville, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | | | | | | - | orted:)8 16:42 |
| | | - W 0801106-04 | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | N |
| Aluminum Total EPA 200.7/6010 (ICP) | 948 | 13.9 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 16:43 | Notes |
| Ammonia, Total EPA 350.1 | 0.032 I | 0.009 | mg/L | 1 | 8011505 | 01/14/08 | 01/15/08 14:34 | |
| Calcium Total EPA 200.7/6010 (ICP) | 32.3 | 0.02 | mg/L | 1 | 8011413 | 01/13/08 | 01/16/08 16:43 | |
| ron Total EPA 200.7/6010 (ICP) | 391 | 0.7 | ug/L | 1 | | | | |
| litrate-Nitrite, Total EPA 353.2 | 0.003 U | 0.003 | mg/L | 1 | 8011413 | 01/14/08 | 01/16/08 16:43 | v |
| oluble Reactive Phosphate EPA 365.2 | 0.209 | 0.002 | mg/L | 1 | 8011720 | 01/17/08 | 01/18/08 12:13 | |
| ulfate, Total EPA 375.4 | 10.9 | 0.33 | - | 1 | 8011110 | 01/11/08 | 01/11/08 17:00 | |
| otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.32 | 0.08 | mg/L | 1 | 8011706 | 01/17/08 | 01/17/08 10:45 | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 3.85 | | mg/L | 1 | 8011508 | 01/15/08 | 01/17/08 00:00 | |
| otal Suspended Solids EPA 160.2 - 100mL | | 0.08 | mg/L | 1 | 8011507 | 01/15/08 | 01/17/08 00:00 | |
| | 21.0 | 2.0 | mg/L | 1 | 8011102 | 01/11/08 | 01/11/08 09:34 | |

W - 4

0801106-04RE1 (W

| 0801106-04RE1 (Water) | | | | | | | | | |
|---|---------|--------------------|---------|----------|---------|----------|-------------------------|-------|--|
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.37 | 0.030 | mg/L | 5 | 8012410 | 01/25/08 | Analyzed 01/25/08 13:00 | Notes | |
| | | W - | 5 | | | | | | |
| | | 0801106-05 | (Water) | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | | | |
| Aluminum Total EPA 200.7/6010 (ICP) | 343 | 13.9 | ug/L | 1 | 8011413 | 01/14/08 | Analyzed 01/16/08 17:12 | Notes | |
| Ammonia, Total EPA 350.1 | 0.216 | 0.009 | mg/L | 1 | 8011505 | 01/15/08 | 01/15/08 14:39 | | |
| Calcium Total EPA 200.7/6010 (ICP) | 39.6 | 0.02 | mg/L | 1 | 8011413 | 01/13/08 | 01/16/08 17:12 | | |
| ron Total EPA 200.7/6010 (ICP) | 217 | 0.7 | ug/L | 1 | 8011413 | | 01/16/08 17:12 | | |
| litrate-Nitrite, Total EPA 353.2 | 0.009 I | 0.003 | mg/L | 1 | 8011413 | 01/14/08 | | v | |
| oluble Reactive Phosphate EPA 365.2 | 0.006 I | 0.002 | mg/L | 1 | | 01/17/08 | 01/18/08 12:14 | | |
| ulfate, Total EPA 375.4 | 15.7 | 0.33 | mg/L | | 8011110 | 01/11/08 | 01/11/08 17:00 | | |
| otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.63 | 0.08 | | 1 | 8011706 | 01/17/08 | 01/17/08 10:45 | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 15.6 | 0.32 | mg/L | 1 | 8011508 | 01/15/08 | 01/17/08 00:00 | | |
| otal Suspended Solids EPA 160.2 - 100mL | 13:0 | | mg/L | 4 | 8011507 | 01/15/08 | 01/17/08 00:00 | | |
| | 148 | 2.0 | mg/L | 1 | 8011102 | 01/11/08 | 01/11/08 09:34 | | |

8011102 01/11/08 01/11/08 09:34

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| Gainesville, FL 32609 | Pro | oject Manager: | Lake Hancoc Ron Clarke | A | | | Reported: 02/07/08 16:42 | | |
|--|---------|--------------------|---------------------------|----------|---------|----------|---------------------------------|--------|--|
| | | W- 0801106-05R | | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.815 | 0.030 | mg/L | 5 | 8012410 | 01/25/08 | 01/25/08 13:00 | Notes | |
| | | C- 2 | 1 | | | | | | |
| | | 0801106-06 | 6 (Water) | | | | | | |
| analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Nieter | |
| luminum Total EPA 200.7/6010 (ICP) | 64.7 | 13.9 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 17:21 | Notes | |
| mmonia, Total EPA 350.1 | 1.16 | 0.027 | mg/L | 3 | 8011505 | 01/15/08 | 01/15/08 14:47 | | |
| alcium Total EPA 200.7/6010 (ICP) | 41.3 | 0.02 | mg/L | 1 | 8011413 | 01/14/08 | 01/16/08 17:21 | | |
| on Total EPA 200.7/6010 (ICP) | 420 | 0.7 | ug/L | 1 | 8011413 | 01/14/08 | 01/16/08 17:21 | v | |
| trate-Nitrite, Total EPA 353.2 | 0.008 I | 0.003 | mg/L | 1 | 8011720 | 01/17/08 | 01/18/08 12:15 | v | |
| luble Reactive Phosphate EPA 365.2 | 0.006 I | 0.002 | mg/L | 1 | 8011110 | 01/11/08 | 01/11/08 17:00 | | |
| lfate, Total EPA 375.4 | 11.3 | 0.33 | mg/L | 1 | 8011706 | 01/17/08 | 01/17/08 10:45 | | |
| tal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 4.44 | 0.16 | mg/L | 2 | 8011603 | 01/16/08 | 01/17/08 00:00 | | |
| tal Phosphorus, Total EPA 365.3 (Spec) | 0.438 | 0.006 | mg/L | 1 | 8012202 | 01/22/08 | 01/23/08 16:30 | | |
| tal Suspended Solids EPA 160.2 - 100mL | 30.0 | 2.0 | mg/L | 1 | 8011102 | | 01/11/08 09:34 | | |
| | | C-1 | | | | | | | |
| - | 08 | 801106-06RE | 1 (Water) | | | | | | |

| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--|--------|-------|-------|----------|---------|----------|----------------|-------|
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 8.67 | 0.32 | mg/L | 4 | 8011802 | 01/18/08 | 01/24/08 00:00 | notes |



Wetlands Solutions Inc. 2809 NW 161 Ct Project: Lake Hancock Gainesville, FL 32609 **Reported:** Project Manager: Ron Clarke 02/07/08 16:42 C-2 0801106-07 (Water) Reporting Analysis Result Limit Units Dilution Batch Aluminum Total EPA 200.7/6010 (ICP) Prepared Analyzed Notes 289 13.9 ug/L 1 8011413 01/14/08 01/16/08 17:31 Ammonia, Total EPA 350.1 2.17 0.045 mg/L 5 8011505 Calcium Total EPA 200.7/6010 (ICP) 01/15/08 01/15/08 14:52 40.4 0.02 mg/L 1 8011413 Iron Total EPA 200.7/6010 (ICP) 01/14/08 01/16/08 17:31 1030 0.7 ug/L 1 8011413 01/16/08 17:31 01/14/08 Nitrate-Nitrite, Total EPA 353.2 v 0.007 I 0.003 mg/L 1 8011720 Soluble Reactive Phosphate EPA 365.2 01/17/08 01/18/08 12:17 0.011 0.002 mg/L 1 8011110 01/11/08 01/11/08 17:00 Sulfate, Total EPA 375.4 8.13 0.33 mg/L 1 8011706 01/17/08 10:45 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 01/17/08 5.36 0.32 mg/L 4 8011603 Total Phosphorus, Total EPA 365.3 (Spec) 01/16/08 01/17/08 00:00 0.602 0.006 mg/L Total Suspended Solids EPA 160.2 - 100mL 1 8012202 01/22/08 01/23/08 16:30 42.0 2.0 mg/L 1 8011102 01/11/08 01/11/08 09:34

C-2

0801106-07RE2 (Water)

| Analysis Total Kjeldahl Nitrogen, Total EPA 351.2 | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--|--------|--------------------|-----------|----------|---------|----------|----------------|-------|
| Total Rycham Willogen, Total EPA 351.2 | 8.40 | 0.32 | 0.32 mg/L | | 8012505 | | 01/28/08 00:00 | Totes |
| | | W | -1 | | | | | |
| | | 0801106- | 08 (Soil) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | | |
| Aluminum Sediment EPA 6010B (ICP) | 71500 | 206 | mg/kg dry | - Autom | | | Analyzed | Notes |
| Calcium Sediment EPA 6010B (ICP) | 121000 | | | 1 | 8011411 | 01/14/08 | 01/18/08 18:42 | |
| Iron Sediment EDA (010D (TOD) | 121000 | 0.11 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 18.42 | |

| = no contractica / maryses | Se | | | | | 01/15/00 | 01110100009.22 | |
|--|--------|------|-------------|---------------------------------------|---------|----------|----------------|---|
| Subcontracted Analyses | 40.2 | 0.1 | % by Weight | · · · · · · · · · · · · · · · · · · · | 8011506 | 01/15/08 | 01/15/08 09:22 | |
| Solids, Dry Weight | 46.2 | | | 500 | 8012303 | 01/23/08 | 01/28/08 14:59 | |
| | 21900 | 1080 | mg/kg dry | 500 | 0010000 | | 0.1 /0.0 /0.0 | v |
| Phosphorus, Inorganic in Sediment | | 57.1 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 18:42 | V |
| Phosphorus in Sediment Not NELAC certified | 65600 | 57.1 | | - | 0011411 | 01/14/08 | 01/18/08 18:42 | V |
| | 31500 | 5.7 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 18:42 | |
| Iron Sediment EPA 6010B (ICP) | 31 600 | | | • | 0011411 | 01/14/08 | 01/18/08 18:42 | V |

Sample was subcontracted. Please see attached report.

W-1

0801106-08RE1 (Soil)

| Analysis | Result | Reporting | | | | | | | | |
|--------------------------|--------|-----------|-----------|----------|---------|----------|----------------|-------|--|--|
| Sulfate, Total EPA 375.4 | | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes | | |
| | 610 | 40 | mg/kg dry | 20 | 8012910 | 01/29/08 | 01/29/08 12:56 | | | |



Wetlands Solutions Inc. 2809 NW 161 Ct Project: Lake Hancock Gainesville, FL 32609 **Reported:** Project Manager: Ron Clarke 02/07/08 16:42 W-2 0801106-09 (Soil) Reporting Analysis Result Limit Units Dilution Batch Prepared Analyzed Aluminum Sediment EPA 6010B (ICP) Notes 78600 275 mg/kg dry 1 8011411 01/14/08 01/18/08 18:52 Calcium Sediment EPA 6010B (ICP) 122000 0.15 mg/kg dry 1 8011411 01/14/08 01/18/08 18:52 Iron Sediment EPA 6010B (ICP) v 36800 7.6 mg/kg dry 1 8011411 01/14/08 01/18/08 18:52 Phosphorus in Sediment Not NELAC certified v 66700 76.3 mg/kg dry 1 8011411 01/18/08 18:52 01/14/08 Phosphorus, Inorganic in Sediment ν 65000 2240 mg/kg dry 1000 8012303 01/23/08 01/28/08 14:59 Solids, Dry Weight 44.7 0.1 % by Weight 1 8011506 01/15/08 01/15/08 09:22 Subcontracted Analyses Sample was subcontracted. Please see attached report. W-2 0801106-09RE1 (Soil) Reporting Analysis Result Limit Units Dilution Batch Prepared Analyzed Sulfate, Total EPA 375.4 Notes 119 40 mg/kg dry 20 8012910 01/29/08 12:56 01/29/08 W-3 0801106-10 (Soil) Reporting Analysis Result Limit Units Dilution Batch Prepared Analyzed Aluminum Sediment EPA 6010B (ICP) Notes 77600 212 mg/kg dry 1 8011411 01/18/08 19:02 01/14/08 Calcium Sediment EPA 6010B (ICP) 104000 0.12 mg/kg dry 1 8011411 01/14/08 01/18/08 19:02 Iron Sediment EPA 6010B (ICP) v 26900 5.9 mg/kg dry 1 8011411 01/14/08 01/18/08 19:02 Phosphorus in Sediment Not NELAC certified v 63000 58.9 mg/kg dry 1 8011411 01/18/08 19:02 01/14/08 Phosphorus, Inorganic in Sediment v 38500 1090 mg/kg dry 500 8012303 01/23/08 01/28/08 14:59 Solids, Dry Weight 46.0 0.1 % by Weight 1 8011506 01/15/08 01/15/08 09:22 Subcontracted Analyses Sample was subcontracted. Please see attached report. W-3 0801106-10RE1 (Soil)

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--------------------------|--------|--------------------|-----------|----------|---------|----------|----------------|-------|
| Sulfate, Total EPA 375.4 | 43 I | 40 | mg/kg dry | 20 | 8012910 | 01/29/08 | 01/29/08 12:56 | Hotes |



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| Wetlands Solutions Inc. 2809 NW 161 Ct | | Project | : Lake Hancoc | k | | | | |
|--|--------|----------------------------|--------------------|----------|------------------|----------------------|----------------|----------------------|
| Gainesville, FL 32609 | Р | Project Managery Box Clash | | | | | | oorted: /08 16:42 |
| | | v | V-4 | | | | | |
| | | 0801106 | -11 (Soil) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notos |
| Aluminum Sediment EPA 6010B (ICP) | 54500 | 241 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 19:21 | Notes |
| Calcium Sediment EPA 6010B (ICP) | 95600 | 0.13 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 19:21 | ••• |
| Iron Sediment EPA 6010B (ICP) | 26100 | 6.7 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 19:21 | V |
| Phosphorus in Sediment Not NELAC certified | 48400 | 66.9 | mg/kg dry | 1 | 8011411 | | 01/18/08 19:21 | V |
| Phosphorus, Inorganic in Sediment | 3410 | 239 | mg/kg dry | 100 | 8012303 | 01/14/08 | 01/28/08 14:59 | V |
| Solids, Dry Weight | 41.9 | 0.1 | % by Weight | 1 | 8012303 | 01/23/08 01/15/08 | 01/28/08 14:59 | |
| Subcontracted Analyses | | | bcontracted. Plea | | | 01/15/08 | 01/10/00 09:22 | |
| | | W | | | | | | |
| | | 0801106-11 | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Sulfate, Total EPA 375.4 | 324 | 40 | mg/kg dry | 20 | 8012910 | 01/29/08 | 01/29/08 12:56 | Notes |
| | | C- | 1 | | | | | |
| | | 0801106-1 | | | | | | |
| analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| luminum Sediment EPA 6010B (ICP) | 73700 | 271 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 19:59 | Inotes |
| Calcium Sediment EPA 6010B (ICP) | 110000 | 0.15 | mg/kg dry | | 8011411 | 01/14/08 | 01/18/08 19:59 | 17 |
| ron Sediment EPA 6010B (ICP) | 34400 | 7.5 | mg/kg dry | | 8011411 | 01/14/08 | 01/18/08 19:59 | V |
| hosphorus in Sediment Not NELAC certified | 54700 | 75.3 | mg/kg dry | | 8011411 | 01/14/08 | 01/18/08 19:59 | v v |
| hosphorus, Inorganic in Sediment | 57500 | 1260 | mg/kg dry | | 8012303 | 01/23/08 | 01/28/08 14:59 | v |
| olids, Dry Weight | 39.6 | 0.1 | % by Weight | | 8011506 | 01/15/08 | 01/15/08 09:22 | |
| · · · · · · · · · · · · · · · · · · · | 59.0 | 0.1 | / o o y morgin | | | | | |
| abcontracted Analyses | | | • • | | l report. | | | |
| abcontracted Analyses | | | contracted. Please | | l report. | | | |
| abcontracted Analyses | | Sample was subc | contracted. Please | | l report. | | | |
| abcontracted Analyses | | Sample was subc | contracted. Please | | 517 7 (944) 2001 | Prepared | Analyzed | Notes |



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| 2809 NW 161 Ct Gainesville, FL 32609 | | Reported: 02/07/08 16:42 | | | | | | |
|--|---|------------------------------------|-------------------|----------|---------|-----------------------------|----------------|-------|
| | | | 2-2 -13 (Soil) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Dropoud | | · |
| Aluminum Sediment EPA 6010B (ICP) | 68800 | 213 | mg/kg dry | 1 | 8011411 | Prepared 01/14/08 | Analyzed | Notes |
| Calcium Sediment EPA 6010B (ICP) | 98000 | 0.12 | mg/kg dry | 1 | 8011411 | | 01/18/08 20:09 | |
| fron Sediment EPA 6010B (ICP) | 23800 | 5.9 | mg/kg dry | 1 | | 01/14/08 | 01/18/08 20:09 | V |
| Phosphorus in Sediment Not NELAC certified | 57900 | 59.1 | mg/kg dry | 1 | 8011411 | 01/14/08 | 01/18/08 20:09 | V |
| hosphorus, Inorganic in Sediment | 31800 | 1090 | | 1 | 8011411 | 01/14/08 | 01/18/08 20:09 | v |
| olids, Dry Weight | 45.8 | 0.1 | mg/kg dry | 500 | 8012303 | 01/23/08 | 01/28/08 14:59 | |
| bubcontracted Analyses | 45.8 0.1 % by Weight 1 8011506 0 Sample was subcontracted. Please see attached report. | | | | | | 01/15/08 09:22 | |
| | | C- : | | | | | | |
| | | 0801106-13] | RE1 (Soil) | | | | | |

| Analysis | | Reporting | | | | | | | 1 |
|--------------------------|--------|-----------|-----------|----------|---------|----------|----------------|-------|---|
| Sulfate, Total EPA 375.4 | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes | |
| | 1190 | 40 | mg/kg dry | 20 | 8012910 | 01/29/08 | 01/29/08 12:56 | notes | 1 |



Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609

Project: Lake Hancock

Project Manager: Ron Clarke

Reported: 02/07/08 16:42

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QUALITY CONTROL FOR SAMPLES

Solids - Quality Control

| Analyte | Result | Reportin Limit | | Spike | Source | | %REC | | RPD | |
|--|----------------|-------------------|-----------------|----------------|------------------|------|---|--------------------|--------------|--|
| Batch 8011102 = Total Suspended Solid | | | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Blank (8011102-BLK1) | 13 EI A 100.2 | - 100ml | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Blank (8011102-BLK2) | | | 8- | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Blank (8011102-BLK3) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Duplicate (8011102-DUP2) Sour- | | | ing/L | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | ce: 0801106-02 | | | | | | | | | |
| | 15.0 | 2.0 | mg/L | | 13.0 | | | 14 | 20 | |
| Reference (8011102-SRM1) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 56.0 | | mg/L | 51.0 | | 110 | 80-120 | | | |
| Batch 8011506 = Solids, Dry Weight | | | | | | | | | | |
| Blank (8011506-BLK1) | | | | | | | | | | |
| Solids, Dry Weight | 0.1 U | 0.1 | % by Weight | | | | | | | |
| Blank (8011506-BLK2) | | | i i j i i i gin | | | | | | | |
| Solids, Dry Weight | 0.1 U | 0.1 | % by Weight | | | | | | | |
| | | Nutrier | nts - Qualit | y Contr | ol | | | | | |
| | | Reporting | | Smiles | | | | | | |
| Analyte | Result | Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 8011110 = Soluble Reactive Phosph | ate EPA 365 | 5.2 | | | | | | | | Notes |
| Blank (8011110-BLK1) | | | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.002 U | 0.002 | mg/L | | | | and the state of the | erets each dataire | | a a terra a transfer a construction a construction a construction a construction a construction a construction |
| Duplicate (8011110-DUP5) Source | : 0801106-01 | | -6- | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.023 | 0.002 | /T | | | | | | | |
| | | 0.002 | mg/L | | 0.023 | | | 0 | 20 | |
| Soluble Reactive Phosphate EPA 365.2 | : 0801106-02 | | | | | | | | | |
| | 0.307 | | mg/L | 0.250 | 0.0512 | 102 | 85-115 | | | |
| Reference (8011110-SRM1) | | | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.646 | | mg/L | 0.610 | | 106 | 80-120 | - | | |
| | | | | | | | | | | |



| 2809 NW 161 Ct Gainesville, FL 32609 | | Project I | Project: La Manager: Ro | | °k | | | | Report 02/07/08 | |
|---|-------------------|--------------------|----------------------------|----------------|------------------|------|----------------|-----|---------------------------|-------|
| | | Nutrie | nts - Qua | lity Con | trol | | | | | |
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 8011110 = Soluble Reactive H | hosphate EPA | 365.2 | | | | | | | | |
| Batch 8011411 = Phosphorus in Sec | liment Not NEL | AC certifie | ed | | | | | | | |
| Blank (8011411-BLK1) | | | | | | | | | | |
| Phosphorus in Sediment Not NELAC certified | 4.0 | 1.0 | mg/kg wet | | | | | | | |
| LCS (8011411-BS1) | | | merke wei | | | | | | | V |
| Phosphorus in Sediment Not NELAC certified | 660 | 3.8 | | | | | | | | |
| | | | mg/kg wet | | | | 85-115 | | | NT |
| Phosphorus in Sediment Not NELAC certified | Source: 0801106-1 | | | | | | | | | |
| | 56300 | 56.3 | mg/kg dry | | 63000 | | | 11 | 20 | |
| Reference (8011411-SRM1) Phosphorus in Sediment Not NELAC certified | | | | | | | | | | |
| | 2610 | 7.7 | mg/kg wet | 3070 | | 85 | 85-115 | | | |
| Batch 8011505 = Ammonia, Total El | PA 350.1 | | | | | | | | | |
| Blank (8011505-BLK1) | | | | | | | | | | |
| mmonia, Total EPA 350.1 | 0.009 U | 0.009 | mg/L | | | | | | | |
| uplicate (8011505-DUP6) | | | mg/L | | | | | | | |
| mmonia, Total EPA 350.1 | Durce: 0801106-06 | | | | | | | | | |
| | 1.23 | 0.027 | mg/L | | 1.16 | | | 6 | 20 | |
| eference (8011505-SRM1) mmonia, Total EPA 350.1 | | | | | | | | | | |
| | 0.653 | 0.009 | mg/L | 0.635 | | 103 | 90-110 | | | |
| atch 8011507 = Total Kjeldahl Nitro | gen, Total EPA | 351.2 | | | | | | | | |
| ank (8011507-BLK1) | | | | | | | | | | |
| tal Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| ank (8011507-BLK2) | | | E. L. | | | | | | | |
| tal Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | | | | | | | | |
| CS (8011507-BS1) | | 0.00 | mg/L | | | | | | | |
| al Kjeldahl Nitrogen, Total EPA 351.2 | 1.02 | 0.00 | | | | | | | | |
| | 1.92 | 0.08 | mg/L | 2.00 | | 96 | 90-110 | | | |
| S (8011507-BS2) al Kjeldahl Nitrogen, Total EPA 351.2 | | | | | | | | | | |
| | 1.85 | 0.08 | mg/L | 2.00 | | 92 | 90-110 | | | |
| plicate (8011507-DUP3) Sou | urce: 0801106-01 | | | | | | | | | |
| al Kjeldahl Nitrogen, Total EPA 351.2 | 5.39 | 0.16 | mg/L | | 5.55 | | | 2 | ••• | - |
| | | | | | | | | | | |
| trix Spike (8011507-MS3) Sou al Kjeldahl Nitrogen, Total EPA 351.2 | rce: 0801106-03 | | | | | | | 3 | 20 | |

Serial: LAB-08027 44237



 $U_{\rm gas}$

| Wetlands Solutions Inc. | |
|-------------------------|-----------------------------|
| 2809 NW 161 Ct | Project: Lake Hancock |
| Gainesville, FL 32609 | Project Manager: Ron Clarke |

Reported: 02/07/08 16:42

Nutrients - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--|------------------------------|----------------------|----------------|----------------------------|------|------------------|-----|--------------|--------------|
| Batch 8011508 = Total Kjeldahl Nitrog | gen, Dissolve | d EPA 351. | .2 | | | | | | Linin | Inotes |
| Blank (8011508-BLK1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| Blank (8011508-BLK2) | | | mg/L | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.08 U | 0.00 | | | | | | | | |
| | 0.08 () | 0.08 | mg/L | | | | | | | |
| LCS (8011508-BS1) Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | | | | | | | | | | |
| | 1.97 | 0.08 | mg/L | 2.00 | | 98 | 90-110 | | | |
| LCS (8011508-BS2) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.83 | 0.08 | mg/L | 2.00 | | 92 | 00.110 | | | |
| Duplicate (8011508-DUP3) Sour | ·ce: 0801106-0 | 1 | C C | | | 92 | 90-110 | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.90 | 0.08 | mg/L | | | | | | | |
| | | | ing/L | | 3.19 | | | 10 | 20 | |
| Sour Sour Yotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | ce: 0801106-02 | | | | | | | | | S-RI |
| - Information Printogen, Dissolved EPA 551.2 | 5.70 | 0.16 | mg/L | 1.00 | 5.85 | NR | 85-115 | | | 5-N |
| 3atch 8011602 = Total Kjeldahl Nitroge | n. Total EPA | 351.2 | | | | | | | | |
| Blank (8011602-BLK1) | | | | | | | | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | | | | | | | | |
| | 0.00 0 | 0.08 | mg/L | | | | | | | |
| land (9011(0) DI 1/2) | | | | | | | | | | |
| lank (8011602-BLK2) | | | | | | | | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 CS (8011602-BS1) | 0.08 U | 0.08 | mg/L | | | | | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U 1.93 | 0.08 | _ | 2.00 | | 06 | 00.110 | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 CS (8011602-BS1) | | | mg/L mg/L | 2.00 | | 96 | 90-110 | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 CS (8011602-BS1) otal Kjeldahl Nitrogen, Total EPA 351.2 | 1.93 | 0.08 | mg/L | | | | 90-110 | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 CS (8011602-BS1) otal Kjeldahl Nitrogen, Total EPA 351.2 CS (8011602-BS2) tal Kjeldahl Nitrogen, Total EPA 351.2 | 1.93 1.85 | | _ | 2.00 | | 96 | 90-110 90-110 | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 CS (8011602-BS1) otal Kjeldahl Nitrogen, Total EPA 351.2 CS (8011602-BS2) otal Kjeldahl Nitrogen, Total EPA 351.2 uplicate (8011602-DUP1) Source | 1.93 1.85 e: 0801106-06 | 0.08 | mg/L | | | | | | | D-RF |
| otal Kjeldahl Nitrogen, Total EPA 351.2 CS (8011602-BS1) otal Kjeldahl Nitrogen, Total EPA 351.2 CS (8011602-BS2) otal Kjeldahl Nitrogen, Total EPA 351.2 aplicate (8011602-DUP1) Source tal Kjeldahl Nitrogen, Total EPA 351.2 | 1.93 1.85 | 0.08 | mg/L | | 8.62 | | | 27 | 20 | D-RE) |
| otal Kjeldahl Nitrogen, Total EPA 351.2 CS (8011602-BS1) otal Kjeldahl Nitrogen, Total EPA 351.2 CS (8011602-BS2) otal Kjeldahl Nitrogen, Total EPA 351.2 uplicate (8011602-DUP1) Source tal Kjeldahl Nitrogen, Total EPA 351.2 atrix Spike (8011602-MS1) Source | 1.93 1.85 e: 0801106-06 | 0.08 | mg/L mg/L | | 8.62 | | | 27 | 20 | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 CS (8011602-BS1) otal Kjeldahl Nitrogen, Total EPA 351.2 CS (8011602-BS2) ttal Kjeldahl Nitrogen, Total EPA 351.2 applicate (8011602-DUP1) tal Kjeldahl Nitrogen, Total EPA 351.2 source | 1.93 1.85 e: 0801106-06 6.60 | 0.08 | mg/L mg/L | | 8.62 | 92 | 90-110 | 27 | 20 | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 CS (8011602-BS1) otal Kjeldahl Nitrogen, Total EPA 351.2 CS (8011602-BS2) otal Kjeldahl Nitrogen, Total EPA 351.2 applicate (8011602-DUP1) tal Kjeldahl Nitrogen, Total EPA 351.2 atrix Spike (8011602-MS1) Source tal Kjeldahl Nitrogen, Total EPA 351.2 | 1.93 1.85 e: 0801106-06 6.60 e: 0801106-07 9.24 | 0.08 0.08 0.32 0.32 | mg/L mg/L mg/L | 2.00 | atten sandi ⇒ krafar san t | | | 27 | 20 | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 CS (8011602-BS1) otal Kjeldahl Nitrogen, Total EPA 351.2 CS (8011602-BS2) tal Kjeldahl Nitrogen, Total EPA 351.2 aplicate (8011602-DUP1) Source tal Kjeldahl Nitrogen, Total EPA 351.2 atrix Spike (8011602-MS1) Source tal Kjeldahl Nitrogen, Total EPA 351.2 tal Kjeldahl Nitrogen, Total EPA 351.2 tal Kjeldahl Nitrogen, Total EPA 351.2 | 1.93 1.85 e: 0801106-06 6.60 e: 0801106-07 9.24 | 0.08 0.08 0.32 0.32 | mg/L mg/L mg/L | 2.00 | atten sandi ⇒ krafar san t | 92 | 90-110 | 27 | 20 | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 CS (8011602-BS1) otal Kjeldahl Nitrogen, Total EPA 351.2 CS (8011602-BS2) otal Kjeldahl Nitrogen, Total EPA 351.2 applicate (8011602-DUP1) tal Kjeldahl Nitrogen, Total EPA 351.2 atrix Spike (8011602-MS1) Source tal Kjeldahl Nitrogen, Total EPA 351.2 | 1.93 1.85 e: 0801106-06 6.60 e: 0801106-07 9.24 | 0.08 0.08 0.32 0.32 | mg/L mg/L mg/L | 2.00 | atten sandi ⇒ krafar san t | 92 | 90-110 | 27 | 20 | D-RE S-RE |



Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609

Project Manager: Ron Clarke

Project: Lake Hancock

Reported: 02/07/08 16:42

Nutrients - Quality Control Reporting Spike Analyte Source %REC RPD Result Limit Units Level Result %REC Limits RPD Limit Notes Batch 8011603 = Total Kjeldahl Nitrogen, Dissolved EPA 351.2 Blank (8011603-BLK2) Total Kjeldahl Nitrogen, Dissolved EPA 351.2 0.08 U 0.08 mg/L LCS (8011603-BS1) Total Kjeldahl Nitrogen, Dissolved EPA 351.2 1.89 0.08 mg/L 2.00 94 90-110 LCS (8011603-BS2) Total Kjeldahl Nitrogen, Dissolved EPA 351.2 1.94 0.08 mg/L 2.00 97 90-110 Duplicate (8011603-DUP1) Source: 0801106-06 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 4.79 0.08 mg/L 4.44 8 20 Matrix Spike (8011603-MS1) Source: 0801106-07 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 9.40 0.32 mg/L 4.00 5.36 101 85-115 Batch 8011720 = Nitrate-Nitrite, Total EPA 353.2 Blank (8011720-BLK1) Nitrate-Nitrite, Total EPA 353.2 0.003 U 0.003 mg/L Duplicate (8011720-DUP1) Source: 0801106-01 Nitrate-Nitrite, Total EPA 353.2 0.003 U 0.003 mg/L 0.003 U 20 Matrix Spike (8011720-MS1) Source: 0801106-02 Nitrate-Nitrite, Total EPA 353.2 0.405 0.003 mg/L 0.400 0.039 92 90-110 Reference (8011720-SRM1) Nitrate-Nitrite, Total EPA 353.2 1.37 0.003 mg/L 1.38 99 90-110 Reference (8011720-SRM2) Nitrate-Nitrite, Total EPA 353.2 0.984 0.003 mg/L 1.00 98 0-200 Batch 8011802 = Total Kjeldahl Nitrogen, Total EPA 351.2 Blank (8011802-BLK1) Total Kjeldahl Nitrogen, Total EPA 351.2 0.08 U 0.08 mg/L Blank (8011802-BLK2) Total Kjeldahl Nitrogen, Total EPA 351.2 0.08 U 0.08 mg/L LCS (8011802-BS1)

 Total Kjeldahl Nitrogen, Total EPA 351.2
 1.97
 0.08
 mg/L
 2.00
 98
 90-110

 LCS (8011802-BS2)

Serial: LAB-08027 44237



| | Wetlands Solutions Inc. | | |
|---|-------------------------|-----------------------------|---------------------------------|
| | 2809 NW 161 Ct | Project: Lake Hancock | |
| l | Gainesville, FL 32609 | Project Manager: Ron Clarke | Reported: 02/07/08 16:42 |

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD | |
|---|--------------------|---|-------|----------------|------------------|------|----------------|-----|-------|-------|
| Batch 8011802 = Total Kjeldahl N | litrogen, Total EI | PA 351.2 | | | | | Lining | | Limit | Notes |
| LCS (8011802-BS2) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 2.07 | 0.08 | mg/L | 2.00 | | 104 | 90-110 | | | |
| Duplicate (8011802-DUP1) | Source: 0801106-0 | 06RE1 | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 8.05 | 0.32 | mg/L | | 9.77 | | | | | |
| Matrix Spike (8011802-MS1) | Source: 0801106-0 | | mg/L | | 8.67 | | | 7 | 20 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 13.4 | 0.32 | mg/L | 4.00 | 8.21 | 120 | | | | S-RX |
| Batch 8011803 = Total Kjeldahl Ni | trogon Diggolar | ED 4 654 | | | 0.21 | 130 | 80-120 | | | |
| Blank (8011803-BLK1) | d ogen, Dissolved | EPA 351.2 | 2 | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | | | | | | | | | | |
| | 0.08 U | 0.08 | mg/L | | | | | | | |
| Blank (8011803-BLK2) | | | | | | | | | | |
| otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| CS (8011803-BS1) | | | | | | | | | | |
| otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.99 | 0.08 | mg/L | 2.00 | | | | | | |
| CS (8011803-BS2) | | | ing L | 2.00 | | 100 | 90-110 | | | |
| otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.00 | 0.08 | /~ | | | | | | | |
| atria Call (Oddood a se | | | mg/L | 2.00 | | 100 | 90-110 | | | |
| tal Kjeldahl Nitrogen, Dissolved EPA 351.2 | Source: 0801106-02 | RE1 | | | | | | | | |
| | 8.34 | 0.16 | mg/L | 2.00 | 6.16 | 109 | 85-115 | | | |
| atch 8012202 = Total Phosphorus, ' | Total EPA 365.3 | (Snec) | | | | | | | | |
| ank (8012202-BLK1) | | (=,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | | | |
| tal Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | | | | | | | | |
| ank (8012202-BLK2) | | 0.000 | mg/L | | | | | | | |
| al Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.000 | | | | | | | | |
| | 0.006 () | 0.006 | mg/L | | | | | | | |
| ank (8012202-BLK3) al Phosphorus, Total EPA 365.3 (Spec) | | | | | | | | | | |
| - , | 0.006 U | 0.006 | mg/L | | | | | | | |
| nk (8012202-BLK4) | | | | | | | | | | |
| al Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| nk (8012202-BLK5) | | | - | | | | | | | |
| l Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| nk (8012202-BLK6) | | | mg/L | | | | | | | |

Serial: LAB-08027 44237



| | Wetlands Solutions Inc. | | |
|---|-------------------------|-----------------------------|----------------|
| | 2809 NW 161 Ct | Project: Lake Hancock | |
| | Gainesville, FL 32609 | Project Manager: Ron Clarke | Reported: |
| L | | Troject Manager. Kon Clarke | 02/07/08 16:42 |

Nutrients - Quality Control Reporting Spike Source Analyte %REC RPD Result Limit Units Level Result %REC Limits RPD Limit Notes Batch 8012202 = Total Phosphorus, Total EPA 365.3 (Spec) Blank (8012202-BLK6) Total Phosphorus, Total EPA 365.3 (Spec) 0.006 U 0.006 mg/L Duplicate (8012202-DUP2) Source: 0801106-02 Total Phosphorus, Total EPA 365.3 (Spec) 0.608 0.006 mg/L 0.629 3 20 Reference (8012202-SRM1) Total Phosphorus, Total EPA 365.3 (Spec) 0.104 0.006 mg/L 0.108 96 0-200 Batch 8012303 = Phosphorus, Inorganic in Sediment Blank (8012303-BLK1) Phosphorus, Inorganic in Sediment 1.0 U 1.0 mg/kg wet Blank (8012303-BLK2) Phosphorus, Inorganic in Sediment 14.5 1.0 mg/kg wet V Duplicate (8012303-DUP2) Source: 0801106-09 Phosphorus, Inorganic in Sediment 64300 2240 mg/kg dry 65000 1 20 Batch 8012410 = Total Phosphorus, Total EPA 365.3 (Spec) Blank (8012410-BLK1) Total Phosphorus, Total EPA 365.3 (Spec) 0.006 U 0.006 mg/L Blank (8012410-BLK2) Total Phosphorus, Total EPA 365.3 (Spec) 0.006 U 0.006 mg/L Duplicate (8012410-DUP2) Source: 0801106-01RE1 Total Phosphorus, Total EPA 365.3 (Spec) 0.882 0.030 mg/L 0.909 3 20 Duplicate (8012410-DUP3) Source: 0801106-03RE1 Total Phosphorus, Total EPA 365.3 (Spec) 0.813 0.018 mg/L 0.837 3 20 Duplicate (8012410-DUP4) Source: 0801106-04RE1 Total Phosphorus, Total EPA 365.3 (Spec) 1.34 0.030 mg/L 1.37 2 20 Duplicate (8012410-DUP5) Source: 0801106-05RE1 Total Phosphorus, Total EPA 365.3 (Spec) 0.815 0.030 mg/L 0.815 0 20 Matrix Spike (8012410-MS1) Source: 0801106-01RE1 Total Phosphorus, Total EPA 365.3 (Spec) 2.27 0.031 mg/L 1.33 0.909 102 80-120 Reference (8012410-SRM1)



| Wetlands Solutions Inc. | | |
|-------------------------|-----------------------------|------------------------------------|
| 2809 NW 161 Ct | Project: Lake Hancock | |
| Gainesville, FL 32609 | Project Manager: Ron Clarke | Reported: 02/07/08 16:42 |
| | | 02/07/08 10:42 |

Nutrients - Quality Control

| | | the second s | | | | | | | | |
|--|---------------------|--|-------|-----------------|------------------|------|----------------|-----|--------------|-------|
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Net |
| Batch 8012410 = Total Phosphor | rus, Total EPA 365 | 3 (Snec) | | 1999 - Honore H | | | | | Linit | Notes |
| Reference (8012410-SRM1) | | (opec) | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.103 | 0.006 | mg/L | 0.108 | | 95 | 0-200 | | | |
| Batch 8012505 = Total Kjeldahl I | Nitrogen, Total EPA | A 351.2 | | | | | | | | |
| Blank (8012505-BLK1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| LCS (8012505-BS1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 1.82 | 0.08 | mg/L | 2.00 | | 91 | 90-110 | | | |
| Matrix Spike (8012505-MS1) | Source: 0801106-07 | RF2 | | | | | | | | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 11.2 | 0.32 | mg/L | 4.00 | 8.40 | 70 | 80-120 | | | S-CO |

Minerals - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|--------------------|-------|----------------|---|------|----------------|----------------------------------|--------------|-------------------|
| Batch 8011706 = Sulfate, Total EPA 375.4 | | | | | | | | 142 | Linnt | INOLES |
| Blank (8011706-BLK1) | | | | | | | | | | |
| Sulfate, Total EPA 375.4 | 0.20 U | 0.20 | mg/L | | | | | | | |
| Reference (8011706-SRM1) | | | | | | | | | | |
| Sulfate, Total EPA 375.4 | 24.9 | | mg/L | 24.8 | | 100 | 90-110 | | | |
| Batch 8012215 = Sulfate, Total EPA 375.4 | | | | | | | | | | |
| Blank (8012215-BLK1) | | | | | | | | | | |
| Sulfate, Total EPA 375.4 | 1.00 U | 1.00 | mg/L | | | | | | | |
| Reference (8012215-SRM1) | | | | | | | | | | |
| Sulfate, Total EPA 375.4 | 26.3 | | mg/L | 24.8 | an a line la devail de la cara d'Al de la c | 106 | 90-110 | a – ala harak finisi tilar ila e | | an la an server e |

Metals by EPA 200 Series Methods - Quality Control

| Analy | rte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | |
|-------|------------------------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Bate | h 8011413 = ICP Metals | | | | | | | | | | Notes |



| Wetlands Solutions Inc. | |
|-------------------------|--|
| 2809 NW 161 Ct | |
| Gainesville, FL 32609 | |

Project: Lake Hancock

Project Manager: Ron Clarke

Reported: 02/07/08 16:42

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Metals by EPA 200 Series Methods - Quality Control

| Analyte Batch 8011413 = ICP Metals | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|-------------------------|---------------------|----------------------|----------------------|---------------------|----------------|----------------------------|----------|--------------|-------|
| Blank (8011413-BLK1) | | | | | | | | | | |
| Aluminum Total EPA 200.7/6010 (ICP) Calcium Total EPA 200.7/6010 (ICP) Iron Total EPA 200.7/6010 (ICP) | 13.9 U 0.02 U 3.5 | 13.9 0.02 0.7 | ug/L mg/L ug/L | | | | | | | |
| LCS (8011413-BS1) | | | e | | | | | | | V |
| Iron Total EPA 200.7/6010 (ICP) Calcium Total EPA 200.7/6010 (ICP) Aluminum Total EPA 200.7/6010 (ICP) | 101 9.53 94.0 | 0.7 0.02 13.9 | ug/L mg/L ug/L | 100 10.0 100 | | 101 95 | 85-115 85-115 | | | |
| Duplicate (8011413-DUP1) | Source: 0801106-01 | | 49.2 | 100 | | 94 | 85-115 | | | |
| ron Total EPA 200.7/6010 (ICP) Calcium Total EPA 200.7/6010 (ICP) Aluminum Total EPA 200.7/6010 (ICP) | 1420 34.9 347 | 0.7 0.02 13.9 | ug/L mg/L ug/L | | 1430 35.4 347 | | | 0.7 1 | 20 20 | |
| Matrix Spike (8011413-MS1) | Source: 0801106-02 | | -9/2 | | 347 | | | 0 | 20 | |
| ron Total EPA 200.7/6010 (ICP) Luminum Total EPA 200.7/6010 (ICP) Calcium Total EPA 200.7/6010 (ICP) | 383 317 45.2 | 0.7 13.9 0.02 | ug/L ug/L mg/L | 100 100 10.0 | 290 241 35.7 | 93 76 95 | 75-125 75-125 75-125 | | | |
| ost Spike (8011413-PS1) | Source: 0801106-02 | | - | | | 25 | 75-125 | | | |
| on Total EPA 200.7/6010 (ICP) luminum Total EPA 200.7/6010 (ICP) alcium Total EPA 200.7/6010 (ICP) | 5390 5350 80.4 | | ug/L ug/L mg/L | 5310 5310 49.0 | 281 233 34,5 | 96 96 94 | 75-125 75-125 75-125 | | | |

Metals by EPA 6000/7000 Series Methods - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|-----------------------|-----------------------------------|-------------------------------------|-----------------------|------------------|-----------------|----------------------------|-----|--------------|---------------------------------------|
| Batch 8011411 = ICP Metals | | | | | | | | | Child | Notes |
| Blank (8011411-BLK1) Iron Sediment EPA 6010B (ICP) | | 99 METRIMONISTING - STILLANDIN 1. | | | | - | | | | Adduntation with Control of The autom |
| Calcium Sediment EPA 6010B (ICP) Aluminum Sediment EPA 6010B (ICP) | 1.0 4.52 3.6 U | 0.1 0.002 3.6 | mg/kg wet mg/kg wet mg/kg wet | | | | | | | V V |
| LCS (8011411-BS1) Calcium Sediment EPA 6010B (ICP) | | | | | | | | | | |
| Iron Sediment EPA 6010B (ICP) Aluminum Sediment EPA 6010B (ICP) | 6630 11900 8840 | 0.008 0.4 13.6 | mg/kg wet mg/kg wet mg/kg wet | 6740 15100 8720 | | 98 79 101 | 85-115 85-115 85-115 | | | CUST |

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Wetlands Solutions Inc. 2809 NW 161 Ct Gainesville, FL 32609

Project Manager: Ron Clarke

Project: Lake Hancock

Reported: 02/07/08 16:42

Metals by EPA 6000/7000 Series Methods - Quality Control

| Analyte Batch 8011411 = ICP Metals | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|-----------------------------|--------------------|-------------------------------------|----------------------|-----------------------|----------------|----------------------------|----------|--------------|--------------|
| Duplicate (8011411-DUP2) | Source: 0801106-10 |) | | | | | | | | |
| Aluminum Sediment EPA 6010B (ICP) (ron Sediment EPA 6010B (ICP) Calcium Sediment EPA 6010B (ICP) | 68100 22700 87900 | 203 5.6 0.11 | mg/kg dry mg/kg dry mg/kg dry | | 77600 26900 | | | 13 17 | 20 20 | |
| Matrix Spike (8011411-MS2) Aluminum Sediment EPA 6010B (ICP) | Source: 0801106-11 | | mg/kg ury | | 104000 | | | 17 | 20 | |
| Calcium Sediment EPA 6010B (ICP) ron Sediment EPA 6010B (ICP) | 56000 101000 | 295 0.16 | mg/kg dry mg/kg dry | 20.5 2050 | 54500 95600 | NR 263 | 75-125 75-125 | | | PSIN PSIN |
| Aatrix Spike Dup (8011411-MSD2) | 25700 Source: 0801106-11 | 8.2 | mg/kg dry | 20.5 | 26100 | NR | 75-125 | | | PSIN |
| on Sediment EPA 6010B (ICP) alcium Sediment EPA 6010B (ICP) luminum Sediment EPA 6010B (ICP) | 26900 106000 57000 | 7.6 0.15 274 | mg/kg dry mg/kg dry mg/kg dry | 19.0 1900 | 26100 95600 | NR 547 | 75-125 75-125 | NR 70 | 20 20 | PSIN PSIN |
| ost Spike (8011411-PS2) alcium Sediment EPA 6010B (ICP) | Source: 0801106-11 | 27. | mg/kg dry | 19.0 | 54500 | NR | 75-125 | 57 | 20 | PSIN |
| uminum Sediment EPA 6010B (ICP) on Sediment EPA 6010B (ICP) | 73.5 20700 12500 | | mg/L ug/L ug/L | 48.6 5290 5290 | 27.5 15700 7500 | 95 95 95 | 75-125 75-125 75-125 | | | |



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6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

| | s Solutions Inc. V 161 Ct | Project: Lake Hancock | |
|----------|--|--|---------------------------------|
| Gainesvi | ille, FL 32609 | Project Manager: Ron Clarke | Reported: 02/07/08 16:42 |
| | | NOTES AND DEFINITIONS | |
| V | Analyte present in blank and samples. | | |
| S-RX+ | Poor matrix spike recovery on reextract; re | sults or recoveries do not confirm; created rextract. | |
| S-REX | Poor matrix spike recovery; created reextra | | |
| S-CON | Poor matrix spike recovery on reextract; re | sults and recoveries confirm. | |
| PSIN | Poor matrix spike recovery; post digestion | | |
| NT | Result is for a nontarget analyte. | | |
| D-RNG | The difference of the concentrations of the swhen the range is at this level the sample is | sample and its duplicate is low in comparison to the MDL. It is the general not rerun and the data is considered acceptable. | policy of the laboratory that |
| D-REX | Poor duplicates; Created reextract. | | |
| CUST | ERA limits 8660-21600mg/kg | | |
| J | Analyte not detected at or above the method | detection limit | |
| | Analyte not detected above the practical qua | ntitation limit. | |
| IR | Not Reported | | |
| ry | Sample results reported on a dry weight basi | is | |
| PD | Relative Percent Difference | | |

CASE NARRATIVE

Sample 0801106-02 (W-2) was reanalyzed for TKN-Dissolved due to an initial matrix spike result that was outside of control limits. The reanalysis QC met acceptable criteria. The reanalysis result is reported.

Sample 0801106-06 (C-1) was reanalyzed for TKN-Total due to an initial duplicate results that was outside of control limits. The reanalysis duplicate confirmed the original run and the reanalysis QC was within acceptable limits. The reanalysis result is reported.

Sample 0801106-07 (C-2) was reanalyzed for TKN-Total due to an initial matrix spike result that was outside of control limits. The reanalyis result was also outside of limits, confirming a matrix effect for this sample. The sample results confirmed the original results and the reanalysis

| | | | | | | | | י ר | | | |
|--------------------------------|---------------|------|------------|-------------------|--------|--------------|---------------|---------------------------|---|----------------------------------|------------------------------------|
| / Time | Date / Time | | | | | Date / Title | | | | | |
| | | | | | | hata / Timo | | 08 40 | 1 - 11-08 Date / Time | 8280 | 1 - 11. 08 Date / Time |
| Sany | Company | | | | | Company | | , | Company A EL | ons, Inc. | Wetland Solutions, Inc. Company |
| Printed Name | Printe | | | | w | Printed Name | | llantin | Printed Name | | Henry Brennan Printed Name |
| 989-1 1079) 1179 A - 21-1179-1 | Signature | | | | | Signature | | | Signature | 163~ | Signature Comment |
| RECEIVED BY: | | | HED BY | RELINQUISHED BY | RELI | | | RECEIVED BY: | RE | HELINQUISHED BY: | A HELIN |
| 20- 0- | × ; | + | × | × | | | | S | C-2 | 1550 | 1/10/2008 |
| 11 = | × > | + | צ | × : | X | X. | COMP/6 | SXSW | C-1 | 1044 SS | 1/10/2008 1530 |
| <u> </u> | + | × | × ; - - | × : | _ | | COMP | ა | W-4 | 1520 | 1/10/2008 |
| <u>60-</u> | × > | + | × : | × | | | COMP | S | W-3 | 5051 | 1/10/2008 |
| ×0- | × > | × > | × : | × ; | | | COMP | S | W≁2 | 1450 | 1/10/2008 |
| | < | + | × : | × | | | COMP | S | W-1* | 1435 | 1/10/2008 |
| 1.4. | | * | * | * | * | × | GRAB | WO | פוום | | 8002/01/1- |
| o o | - | × | × | × | × | × | GRAB | WS | C-2 | 1249 | 8002/01/1 |
| 200 | \rightarrow | × | × | × | × | × | GRAB | SW | W-5 | 1613 | 8002/01/1 |
| (0- 60- | | × | × | × | × | × | GRAB | SW | W-4 | 1353 | 8002/01/1 |
| 2 | | × | × | × | × | Х | GRAB | SW | W-3 | 8251 | 8002/01/1 |
| | _ | × | × | × | × | × | GRAB | SW | W-2 | 1320 | 8002/01/1 |
| | | -+ | × | × | × | × | GRAB | SM | W-1 | 1254 | 8002/01/1 |
| REMARKS / ALTERNATE DESC | Bulk D | SO4 | Ca, Fe | TP / O | NH3 / | TSS | GRAB/ COMP | MATRIX | SAMPLE I. D. | TIME | DATE |
| |)ensit | | e, Al | rtho- | NO3 | - 4 1 | | ^o (Periphyton) | Matrix: SW (Surface Water), GW (Ground Water), S (Soil), P (Periphyton) | face Water), GW (| Matrix: SW (Sur |
| | y / % | | | P | / ТК | | | | | | |
| 2. NHO3 5. Other | | | | | N / TK | | | | | No samples filtered in field. | No samples f |
| 1. HCl 4 Sodium Thissulfath | - | | | | (N D | | | | | nonth. | No Chl a this month. |
| PRESE | | | | | | | | | nts: | operial fils a actions/comments: | |
| Laboratories, Inc. | | 111 | VATIVI | PRESERVATIVE | P | | Rush | | X Standard | | Spocial Instructions (|
| LAB: Advanced Environmental | | STED | EQUES | ANALYSIS REQUES | ANAL | | 2609 | esville, FL 3 | 2809 NW 161 Court, Gainesville, FL 32609 | | |
| Page 1 of 1 | | | 5 | e inc. | | 1 | | 1c.com | ckeller@wetlandsolutionsinc.com | E-MAIL: cke | , . |
| | | ons, | Solutio | - V - V - V | | | | | (386) 462-3196 | FAX: (38 | |
| | | nd | Wetland | Ň | | | | | (386) 462-9286 | PHONE: (38 | |
| | 000 | 9 | | | 7 | | | | Chris Keller | | PROJECT MANAGER: |
| -OE-CUSTODY EOBM | 2 | | CHAIN | 0 | | | | n Study | Lake Hancock Vegetation Study | PROJECT: Lal | |
| 9011080/om | | | | | | | | | | | |

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C-2 5.4°C

| Received on ice: yes no QC sent received | RB AB Trip BI. Drt | oment Method Sample Kit Cooler | = Ice H = (HCI) S = (H ₂ SO ₄) N = (HNO ₃) T = (Sodium Thiosulfate) | | | | C-1 C-1 C-1/10/08/1530 S. | Composite DAT | | | | STANDARD | TURN AROUND TIME: REMARKS / SPECIAL INSTRUCTIONS: | Chris Keller SAMPLED BY: | (386) 462 - 9286 (386) 462-3196 | PHONE: PHONE: PROJECT LOCATION: | 2809 NW16/Court, PO. NUMBER / PROJECT NUMBER: | tland Solutions, inc. | Tampa: Gainesville: Orlando: | Jacksonville: 6601 Southpoint Parkway, Jacksonville. FL 32216 • (and) 363 0350 Eax (and) and and | Advanced CHAIN OF CUSTODY RECORD |
|--|-----------------------------|--------------------------------|--|--|--|--|---------------------------|---------------|---------|---|-----------------------------|-------------------|---|--------------------------|---------------------------------|---------------------------------|---|-----------------------|------------------------------------|--|----------------------------------|
| | | Time | | | | | | | Preserv | | | | · | ا – ی س ت | ω ≺ r ⊐ − α | ->z: =Qm: | | SIZE & TYPE | | | |
| revised 8/01 | | Received by: Date | | | | | × × × | | | E | ΓΡ, Σα, 5 Ο ; Bulk | OÌ Fc., Dex | P A sit; | 2 | 50 | lids | | | | LAB NUMBER: | |
| | | Time | | | | | 1 | | | | | | m cc | ω≤α | ΞZ | ۳⊳г | | | | | |

| Gainesville, FL 32608 |
|--------------------------------|
| La Ke HANGOCK 0801106 P1 |
| |

Cooler/Shipping Information:

Courier:
AEL DI Client UPS Pony Express FedEx Blue Streak ASAP Other (describe):

Type: S Cooler D Box D Other (describe) Used LT-1 mini temp. F.S.

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

| | Cooler ID | C-1 | (-2 | | 1 | |
|---|-----------------|-------------------------------|---------------------------|-----------------------------|------------|---------------------------------|
| • | Temp (°C) | 22 | 54 | | · | |
| | Temp taken from | □ Temp blank Sample bottle | Temp blank | Temp blank | Temp blank | |
| | Temp measured | 🗷 IR gun | I IR gun | □ Sample bottle □ IR gun | | Temp blank Sample bottle IR gun |
| L | with | ID): | □ Thermometer (enter ID): | ☐ Thermometer (enter ID): | | ☐ Thermometer (enter ID): |

Other Information:

Any "NO" responses or discrepancies should be explained in the "Comments" section below.

| 1 Weine CHECKLIST | | | |
|--|-----|-----|----------|
| 1. Were custody seals on shipping container(a) interet | YES | NO | NA |
| 2. Were custody papers properly included with accurate o | | | |
| 5. Were custody papers properly filled out (inter- | X | | |
| 4. Did all bottles arrive in good condition (unbroken)? | | X | |
| 5. Were all bottle labels complete (unbroken)? | | | |
| 5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)? 6. Did the sample labels agree with the chain of mutual 12 | | | |
| 6. Did the sample labels agree with the chain of custody? | | • • | |
| 7. Were correct bottles used for the tests indicate 19 | × | | |
| 6. Were proper sample preservation techniques in the standard standa | | | |
| | X | | |
| 10. Were all VOA vials checked for the management of the termination of terminat | X | | |
| Las word more all pupples present in the VOA is to | | | X |
| Were samples in direct contact with wet ice? If "No," check one: □ NO ICE □ BLUE ICE Was the cooler temperature less than 6°C? | | | <u>-</u> |
| 13. Was the cooler temperature less than 6° C? | X | | |
| 14. Were sample pHz abash 1 - 1 | | | |
| 14. Were sample pHs checked and recorded by Sample Control? | | | |
| THE THE TO A SUMPLES ATP Checked by Jak and | X | | |
| 10. Were the sample containers provided by AET 9 | | | |
| 16. Were samples accepted into the laboratory? | × | | |
| | X | | |

Comments:

Diferent matrix were included in the same line on the



REPORT OF SOIL TESTING

Project: Lake Hancock Vegitation Study

Project Number: 6738-03-4343-03

Client: Advanced Environmental Laboratories, Inc.

Date: January 23, 2008

As requested by Karen Daniels of Advanced Environmental Laboratories, Inc., MACTEC Engineering & Consulting Inc. has completed Bulk Density with Moisture Content testing of six samples that were delivered to our Jacksonville office on January 15, 2008. The results are outlined below.

| | · | | | | | |
|------------|-----------|-----------------------------|-----------------------------|-------------------|---------------------------|---------------------------|
| Sample No. | Sample ID | Percent Moisture (% Wet) | Percent Moisture (% Dry) | Percent Solids | Bulk Density pcf (wet) | Bulk Density pcf (dry) |
| 0801106-08 | W-1 | 51.1 | 104.5 | 48.9 | 88.9 | 43.5 |
| 0801106-09 | W-2 | 53.6 | 115.4 | 46.4 | 101.6 | 43.5 |
| 0801106-10 | W-3 | 54.9 | 121.8 | 45.1 | 91.7 | 41.3 |
| 0801106-11 | W-4 | 59.5 | 146.9 | 40.5 | 86.7 | 35.1 |
| 0801106-12 | C-1 | 53.0 | 112.9 | 47.0 | 98.6 | 46.3 |
| 0801106-13 | C-2 | 55.3 | 123.7 | 44.7 | 87.9 | 39.3 |

Respectfully Submitted,

Mike Holm, P.E.

| I = Ice H = (HCI) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate) Felinquished by: Date Shipment Method Sample Kit Cooler # 1 Dt Dt Out: // // / RB DT 2 1 Dt 1// // // // // // // // // // // // // | face water GW=ground water DW=drinking water OIL A=air SO=soil SI SAMPLE DESCRIPTION Grab SAMPLING MATRIX W/ Composite DATE TIME MATRIX | PHONE: FAX: CONTACT: FAX: TURN AROUND TIME: FEMARKS / SPECIAL INSTRUCTIONS: PISTANDARD 7800 PRUSH FEMARKS / SPECIAL INSTRUCTIONS: | Invanced Environmental Laboratories, Inc. CHAIN OF CUSTODY RECORD I Jacksonville I Tampa: Gainesville Gainesville I Gainesville I Gainesville I Orlando: 6601 Southpoint Parkway, Jacksonville, FL 32216 • (904) 363-9350 Fax (904) 363-9350 9610 Princess Palm Avenue, Tampa, FL 33619 • (813) 630-9616 Fax (813) 630-4327 9615 SW Archer Road, Gainesville, FL 32608 • (352) 377-2349 Fax (813) 630-4327 528 S. North Lake Blvd., Suite 1016, Altamonte Springs, FL 32701 • (407) 937-1594 Fax (407) 937-1594 CLIENT NAME: PROJECT NAME: ADDRESS: PROJECT NUMBER / PROJECT NUMBER; |
|--|---|---|--|
| | Preserv | | |
| Received by: | | 1k Densily | LAB NUMBER: |
| Date | | | |
| Time | | JM@ZCZ Ø>F | of |



6815 SW Archer Road Gainesville, Florida 32608 (352) 377-2349 FAX (352) 395-6639

March 4, 2008

Serial: LAB-08034 52009

Ron Clarke Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609 RE: Lake Hancock Work Order: 0802136

Enclosed are the results of analyses for samples received by the laboratory on February 14, 2008.

All data were determined in accordance with published procedures (EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Rev March 1983; and Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992). Our laboratory is certified by Florida Department of Health (FDH No. E82001).

All results were determined in accordance with NELAP requirements and in accordance with the chain of custody document unless noted in the report case narrative or data report. All data is subject to a degree of uncertainty. For a discussion of laboratory uncertainty, please contact your project manager. This analytical report must be reproduced in its entirety.

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

Sincerely,

Karen Daniels Operations Manager kdaniels@aellab.com

Advanced Environmental Laboratories

Page 1 of 14

NELAC requires that any value reported be listed as having less certainty if the result is between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ). The levels shown in the table below are the laboratories MDL and LOQ. Any result reported that falls between these two values should be considered to have less certainty.

| Analyte Anmonia | unit | moulou | MDL | LOQ |
|--|-------|-------------------|-------|------|
| Chloride | mg/L | EPA 350.1 | 0.009 | 0. |
| Chromium +6 | mg/L | EPA 325.2 | 0.12 | |
| COD | ug/L | 3500CrB, EPA 7196 | 4.5 | 7 |
| Conductivity | mg/L | EPA 410.4 | 6.2 | 7 |
| Cyanide | uS/cm | EPA 120.1 | 9.2 | 14 |
| Fluoride (undistilled) | mg/L | 335.2, 9010/9014 | 0.002 | 0.00 |
| Kjeldahl Nitrogen (Alpkem - CuSO4 digestion) | mg/L | EPA 340.2 | 0.02 | 0.0 |
| Nitrite (Spectrophotometer) | mg/L | EPA 351.2 | 0.08 | 0 |
| Nitrite/Nitrate | mg/L | EPA 353.3 | 0.004 | 0.00 |
| Organic Carbon | mg/L | EPA 353.2 | 0.003 | 0.00 |
| Ortho Phosphorus, Genesys II | mg/L | EPA 415.2 | 0.7 | |
| Dissolved Silica | mg/L | EPA 365.2 | 0.002 | 0.00 |
| Sulfate | mg/L | EPA 370.1 | 0.05 | |
| Total Carbon | mg/L | EPA 375.4 | 0.33 | |
| Fotal Phosphorus, Spec - Genesys II | mg/L | EPA 415.2 | 0.5 | |
| Fotal Phosphorus, Alpkem | mg/L | EPA 365.3 | 0.006 | 0.00 |
| Furbidity | mg/L | EPA 365.1 | 0.002 | 0.00 |
| Silver | NTU | EPA 180.1 | 0.03 | 0. |
| ìn | ug/L | EPA 272.2/7761 | 0.1 | 0.1 |
| Juminum | ug/L | EPA 282.2/7871 | 1.8 | 3.1 |
| Intimony | ug/L | EPA 200.7/6010 | 13.9 | 5(|
| rsenic | ug/L | EPA 200.7/6010 | 2.9 | 50 |
| arium | ug/L | EPA 200.7/6010 | 2.3 | 5(|
| eryllium | ug/L | EPA 200.7/6010 | 0.2 | 5(|
| oron | ug/L | EPA 200.7/6010 | 0.10 | 50 |
| admium | ug/L | EPA 200.7/6010 | 1.5 | 50 |
| alcium | ug/L | EPA 200.7/6010 | 0.4 | 50 |
| hromium | mg/L | EPA 200.7/6010 | 0.02 | 0.05 |
| obalt | ug/L | EPA 200.7/6010 | 0.4 | 50 |
| opper | ug/L | EPA 200.7/6010 | 0.4 | 50 |
|)n | ug/L | EPA 200.7/6010 | 0.4 | 50 |
| ad | ug/L | EPA 200.7/6010 | 0.7 | 50 |
| agnesium | ug/L | EPA 200.7/6010 | 1.9 | 50 |
| anganese | | EPA 200.7/6010 | 0.014 | 0.05 |
| blybdenum | | EPA 200.7/6010 | 0.15 | 50 |
| ckel | | EPA 200.7/6010 | 0.7 | 50 |
| assium | | EPA 200.7/6010 | 0.7 | 50 |
| enium | | EPA 200.7/6010 | 0.006 | 0.05 |
| lium | | EPA 200.7/6010 | 2.4 | 50 |
| ontium | 2 | EPA 200.7/6010 | 0.065 | 0.1 |
| llium | | EPA 200.7/6010 | 0.19 | 50 |
| mium | 1 | EPA 200.7/6010 | 3.6 | 50 |
| ıadium | | EPA 200.7/6010 | 0.26 | 50 |
| C | | EPA 200.7/6010 | 0.5 | 50 |
| · | | EPA 200.7/6010 | 1.65 | 50 |

Serial: LAB-08034 52009

Page 2 of 14

6815 SW Archer Rd Rhenzel Gainesville, FL 32608 Environmental Laboratories, Inc. 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001 Wetland Solutions, Inc. 2809 NW 161 Ct Project: Lake Hancock Gainesville, FL 32609 **Reported:** Project Manager: Ron Clarke 03/04/08 17:19 ANALYTICAL REPORT FOR SAMPLES Sample ID Laboratory ID Matrix **Date Sampled Date Received** W - 1 0802136-01 Water 02/13/08 10:59 02/14/08 08:30 W - 2 0802136-02 Water 02/13/08 11:12 02/14/08 08:30 W - 3 0802136-03 Water 02/13/08 11:24 02/14/08 08:30 W - 4 0802136-04 Water 02/13/08 11:40 02/14/08 08:30 W - 5 0802136-05 Water 02/13/08 12:26 02/14/08 08:30 C - 1 0802136-06 Water 02/13/08 10:01 02/14/08 08:30 C - 2 0802136-07 Water 02/13/08 10:30 02/14/08 08:30 DUP 0802136-08 Water 02/13/08 11:24 02/14/08 08:30



Γ

Advanced Environmental Laboratories, Inc.

6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

| | REPORT OF RESULTS | |
|---|-----------------------------|---------------------------------|
| Gainesville, FL 32609 | Project Manager: Ron Clarke | Reported: 03/04/08 17:19 |
| Wetland Solutions, Inc. 2809 NW 161 Ct | Project: Lake Hancock | |

W - 1 0802136-01 (Water)

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | D | | |
|--|-------------------|--------------------|-------|----------|---------|----------|----------------|-------|
| Aluminum Total EPA 200.7/6010 (ICP) | 881 | 13.9 | | Dilution | | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | | | ug/L | 1 | 8021817 | 02/18/08 | 02/21/08 14:40 | |
| | 0.076 | 0.009 | mg/L | 1 | 8022002 | 02/20/08 | 02/21/08 13:05 | |
| Calcium Total EPA 200.7/6010 (ICP) | 30.3 | 0.02 | mg/L | 1 | 8021817 | 02/18/08 | 02/21/08 14:40 | |
| Iron Total EPA 200.7/6010 (ICP) | 1280 | 0.7 | ug/L | 1 | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.013 | 0.003 | - | 1 | 8021817 | 02/18/08 | 02/21/08 14:40 | v |
| Soluble Reactive Phosphate EPA 365.2 | | | mg/L | 1 | 8021418 | 02/14/08 | 02/14/08 15:01 | |
| Sulfate, Total EPA 375.4 | 0.191 | 0.002 | mg/L | 1 | 8021404 | 02/14/08 | 02/14/08 09:46 | |
| | 6.92 ⁻ | 0.33 | mg/L | 1 . | 8022704 | 02/27/08 | 02/27/08 12:00 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.90 | 0.08 | mg/L | 1 | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 4.21 | | e | 1 | 8022505 | 02/25/08 | 02/26/08 00:00 | |
| Total Suspended Solids EPA 160.2 - 100mL | | 0.16 | mg/L | 2 | 8022103 | 02/21/08 | 02/26/08 00:00 | |
| | 41.0 | .2.0 | mg/L | 1 | 8021809 | 02/18/08 | 02/18/08 12:00 | |
| | | | | | | | | |

W - 1

0802136-01RE1 (Water)

| Analysis Total Phosphorus, Total EPA 365.3 (Spec) | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---|--------|--------------------|---------|----------|---------|----------|-------------------------|-------|
| Total Phosphorus, Total ErA 505.5 (Spec) | 1.44 | 0.030 | mg/L | 5 | 8022507 | 02/25/08 | 02/26/08 14:00 | |
| | | W - | 2 | | | | | |
| | | 0802136-02 | (Water) | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | | |
| Aluminum Total EPA 200.7/6010 (ICP) | 342 | 13.9 | ug/L | 1 | 8021817 | 02/18/08 | Analyzed 02/21/08 14:50 | Notes |
| Ammonia, Total EPA 350.1 | 0.128 | 0.009 | mg/L | 1 | 8022002 | 02/20/08 | 02/21/08 13:06 | |
| alcium Total EPA 200.7/6010 (ICP) | 28.3 | 0.02 | mg/L | 1 | 8021817 | 02/18/08 | 02/21/08 14:50 | |
| on Total EPA 200.7/6010 (ICP) | 468 | 0.7 | ug/L | 1 | 8021817 | 02/18/08 | 02/21/08 14:50 | * 7 |
| itrate-Nitrite, Total EPA 353.2 | 0.024 | 0.003 | mg/L | 1 | 8021418 | 02/14/08 | 02/14/08 14:49 | v |
| pluble Reactive Phosphate EPA 365.2 | 0.369 | 0.002 | mg/L | 1 | 8021404 | | 02/14/08 09:46 | |
| ulfate, Total EPA 375.4 | 2.43 | 0.33 | mg/L | 1 | 8022704 | | 02/27/08 12:00 | |
| otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.55 | 0.16 | mg/L | 2 | 8022505 | | 02/26/08 00:00 | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 2.37 | 0.16 | mg/L | 2 | 8022303 | | 02/26/08 00:00 | |
| otal Suspended Solids EPA 160.2 - 100mL | 8.0 I | 2.0 | mg/L | | 8021809 | | 02/20/08 00:00 | |



Advanced Environmental Laboratories, Inc. 6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

| Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Pro | Project: oject Manager: | Lake Hanco Ron Clarke | | | | orted:)8 17:19 | |
|--|---------|----------------------------|--------------------------|----------|---------|----------|-------------------------|-------|
| | | W 0802136-02F | | ·) | <u></u> | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.887 | 0.030 | mg/L | 5 | 8022507 | 02/25/08 | 02/26/08 14:00 | Notes |
| | | W- | -3 | | | 02/20/00 | | |
| | | 0802136-03 | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Amelian | |
| Aluminum Total EPA 200.7/6010 (ICP) | 633 | 13.9 | ug/L | 1 | 8021817 | 02/18/08 | Analyzed 02/21/08 14:59 | Notes |
| xmmonia, Total EPA 350.1 | 0.023 I | 0.009 | mg/L | 1 | 8022002 | 02/20/08 | 02/21/08 13:22 | |
| Calcium Total EPA 200.7/6010 (ICP) | 22.6 | 0.02 | mg/L | 1 | 8021817 | 02/18/08 | 02/21/08 14:59 | |
| on Total EPA 200.7/6010 (ICP) | 162 | 0.7 | ug/L | 1 | 8021817 | 02/18/08 | 02/21/08 14:59 | v |
| itrate-Nitrite, Total EPA 353.2 | 0.006 I | 0.003 | mg/L | 1 | 8021418 | 02/14/08 | 02/14/08 14:50 | v |
| oluble Reactive Phosphate EPA 365.2 ulfate, Total EPA 375.4 | 0.518 | 0.002 | mg/L | 1 | 8021404 | | 02/14/08 09:46 | |
| | 8.83 | 0.33 | mg/L | 1 | 8022704 | | 02/27/08 12:00 | |
| otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.60 | 0.08 | mg/L | 1 | 8022505 | | 02/26/08 00:00 | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 otal Suspended Solids EPA 160.2 - 100mL | 2.12 | 0.08 | mg/L | 1 | 8022103 | 02/21/08 | 02/26/08 00:00 | |
| Sur Suspended Solids EPA 160.2 - 100mL | 6.0 I | 2.0 | mg/L | 1 | 8021809 | 02/18/08 | 02/18/08 12:00 | |
| | | W -3 | 3 | | | | | |
| | 80 | 802136-03RE | 1 (Water) | | | | | |
| nalysis | Result | Reporting Limit | Unite | | - | | | |

| Total Phosphorus, Total EPA 365.3 (Spec) | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | |
|--|--------|-------|-------|----------|---------|----------|----------------|--|
| acoptorus, rotat Er A 505.5 (Spec) | 0.908 | 0.018 | mg/L | 3 | 8022507 | 02/25/08 | 02/26/08 14:00 | |

Notes



| 2809 NW 161 Ct Gainesville, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | | | | | | - | orted:)8 17:19 |
|--|--|--------------------|-------|----------|---------|----------|----------------|--------------------|
| | | - W 0802136-04 | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Sluminum Total EPA 200.7/6010 (ICP) | 2400 | 13.9 | ug/L | 1 | 8021817 | 02/18/08 | 02/21/08 15:09 | Holes |
| mmonia, Total EPA 350.1 | 0.009 U | 0.009 | mg/L | 1 | 8022002 | 02/20/08 | 02/21/08 13:23 | |
| alcium Total EPA 200.7/6010 (ICP) | 19.8 | 0.02 | mg/L | 1 | 8021817 | 02/18/08 | 02/21/08 15:09 | |
| on Total EPA 200.7/6010 (ICP) | 833 | 0.7 | ug/L | 1 | 8021817 | | 02/21/08 15:09 | |
| itrate-Nitrite, Total EPA 353.2 | 0.006 I | 0.003 | mg/L | 1 | | 02/18/08 | | V |
| luble Reactive Phosphate EPA 365.2 | 0.276 | 0.002 | mg/L | 1 | 8021418 | 02/14/08 | 02/14/08 14:52 | |
| Ilfate, Total EPA 375.4 | 8.78 | 0.33 | mg/L | 1 | 8021404 | 02/14/08 | 02/14/08 09:46 | |
| tal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.42 | 0.08 | • | 1 | 8022704 | 02/27/08 | 02/27/08 12:00 | |
| tal Kjeldahl Nitrogen, Total EPA 351.2 | 1.96 | | .mg/L | 1 | 8022505 | 02/25/08 | 02/26/08 00:00 | |
| tal Suspended Solids EPA 160.2 - 100mL | | 0.08 | mg/L | 1 | 8022103 | 02/21/08 | 02/26/08 00:00 | |
| | 26.0 | 2.0 | mg/L | 1 | 8021809 | 02/18/08 | 02/18/08 12:00 | |

0802136-04RE1 (Water)

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Note | |
|--|--------|--------------------|---------|----------|---------|----------|----------------|--------|--|
| Total Phosphorus, Total EPA 365.3 (Spec) | 2.43 | 0.030 | mg/L | 5 | 8022507 | 02/25/08 | 02/26/08 14:00 | Note | |
| | · | · W - | 5 | • | | | | | |
| | | 0802136-05 | (Water) | | | | | | |
| nalysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Nieder | |
| luminum Total EPA 200.7/6010 (ICP) | 898 | 13.9 | ug/L | 1 | 8021817 | 02/18/08 | 02/21/08 15:38 | Notes | |
| mmonia, Total EPA 350.1 | 0.135 | 0.009 | mg/L | 1 | 8022002 | 02/20/08 | 02/21/08 13:24 | | |
| alcium Total EPA 200.7/6010 (ICP) | 37.0 | 0.02 | mg/L | 1 | 8021817 | 02/18/08 | 02/21/08 15:38 | | |
| on Total EPA 200.7/6010 (ICP) | 504 | 0.7 | ug/L | 1 | 8021817 | 02/18/08 | 02/21/08 15:38 | | |
| trate-Nitrite, Total EPA 353.2 | 0.036 | 0.003 | mg/L | 1 | 8021418 | | 02/14/08 14:54 | v | |
| bluble Reactive Phosphate EPA 365.2 | 0.010 | 0.002 | mg/L | 1 | 8021418 | 02/14/08 | 02/14/08 09:46 | | |
| lfate, Total EPA 375.4 | 14.3 | 0.33 | mg/L | 1 | 8021404 | | | | |
| tal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.96 | 0.08 | mg/L | 1 | | | 02/27/08 12:00 | | |
| tal Kjeldahl Nitrogen, Total EPA 351.2 | 16.6 | 0.32 | mg/L | | 8022505 | | 02/26/08 00:00 | | |
| otal Suspended Solids EPA 160.2 - 100mL | 183 | 2.0 | • | 4 | 8022103 | | 02/26/08 00:00 | | |
| | | 2.0 | mg/L | 1 | 8021809 | 02/18/08 | 02/18/08 12:00 | | |



| Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Pro | Project: | | Reported: 03/04/08 17:19 | | | | |
|--|--------|--------------------|-----------|------------------------------------|---------|----------|----------------|-------|
| | | W - | | | | · · · · | | |
| | (|)802136-05R | E1 (Water |) | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.887 | 0.030 | mg/L | 5 | 8022507 | 02/25/08 | 02/26/08 14:00 | |
| | | C - | 1 | | | | | |
| | | 0802136-06 | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| luminum Total EPA 200.7/6010 (ICP) | 581 | 13.9 | ug/L | 1 | 8021817 | 02/18/08 | 02/21/08 15:47 | Notes |
| mmonia, Total EPA 350.1 | 0.101 | 0.009 | mg/L | 1 | 8022002 | 02/20/08 | 02/21/08 13:26 | |
| alcium Total EPA 200.7/6010 (ICP) | 38.2 | 0.02 | mg/L | 1 | 8021817 | 02/18/08 | 02/21/08 15:47 | |
| on Total EPA 200.7/6010 (ICP) | 4430 | 0.7 | ug/L | 1 | 8021817 | 02/18/08 | 02/21/08 15:47 | v |
| itrate-Nitrite, Total EPA 353.2 | 0.018 | 0.003 | mg/L | 1 | 8021418 | | 02/14/08 14:55 | v |
| oluble Reactive Phosphate EPA 365.2 | 0.041 | 0.002 | mg/L | 1 | 8021404 | | 02/14/08 09:46 | |
| ılfate, Total EPA 375.4 | 0.74 I | 0.33 | mg/L | 1 | 8022704 | | 02/27/08 12:00 | |
| otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 4.61 | 0.16 | mg/L | 2 | 8022505 | | 02/26/08 00:00 | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 9.99 | 0.16 | mg/L | | 8022103 | | 02/26/08 00:00 | |
| otal Suspended Solids EPA 160.2 - 100mL | 71.0 | 2.0 | mg/L | | 8021809 | | 02/18/08 12:00 | |
| | | C - 1 | | | | • | | |
| | 08 | 02136-06RE | 1 (Water) | | | | | |

| Analysis | | Reporting | | | | | | |
|--|--------|-----------|-------|----------|---------|----------|----------------|-------|
| | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 2.00 | 0.030 | mg/L | 5 | 8022507 | 02/25/08 | 02/26/08 14:00 | |

Γ



| 2809 NW 161 Ct Gainesville, FL 32609 | Pro | Lake Hancoc Ron Clarke 2 7 (Water) | k | | | | orted: 98 17:19 | |
|---|---------|---|---------|----------|--------------------|----------|----------------------------------|-------|
| Analysis Aluminum Total EPA 200.7/6010 (ICP) | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 284 | 13.9 | ug/L | 1 | 8021817 | 02/18/08 | 02/21/08 16:06 | |
| alcium Total EPA 200.7/6010 (ICP) | 0.600 | 0.009 | mg/L | 1 | 8022002 | 02/20/08 | 02/21/08 13:31 | |
| on Total EPA 200.7/6010 (ICP) | 36.2 | 0.02 | mg/L | 1 | 8021817 | 02/18/08 | 02/21/08 16:06 | |
| | 1790 | 0.7 | ug/L | 1 | 8021817 | 02/18/08 | 02/21/08 16:06 | v |
| itrate-Nitrite, Total EPA 353.2 | 0.006 I | 0.003 | mg/L | 1 | 8021418 | 02/14/08 | 02/14/08 15:05 | v |
| luble Reactive Phosphate EPA 365.2 | 0.093 | 0.002 | mg/L | 1 | 8021404 | | 02/14/08 09:46 | |
| lfate, Total EPA 375.4 | 0.51 I | 0.33 | mg/L | 1 | 8022704 | | 02/27/08 12:00 | |
| tal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.59 | 0.16 | mg/L | 2 | 8022505 | 02/25/08 | 02/26/08 00:00 | |
| tal Kjeldahl Nitrogen, Total EPA 351.2 | 4.90 | 0.16 | mg/L | 2 | 8022103 | | 02/26/08 00:00 | • |
| tal Phosphorus, Total EPA 365.3 (Spec) | 0.638 | 0.006 | mg/L | 1 | | | | |
| tal Suspended Solids EPA 160.2 - 100mL | 13.0 | 2.0 | mg/L | 1 | 8022114 8021809 | | 02/22/08 01:00 02/18/08 12:00 | |
| | | DUP | | | | • | | |
| | | 0802136-08 (| (Water) | | | | · · · · | |

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Duanaurd | | |
|---|---------|--------------------|-------|----------|---------|----------|----------------|-------|
| Aluminum Total EPA 200.7/6010 (ICP) | 596 | 13.9 | | Diution | | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | | | ug/L | 1 | 8021817 | 02/18/08 | 02/21/08 16:35 | |
| | 0.014 I | 0.009 | mg/L | 1 | 8022002 | 02/20/08 | 02/21/08 13:32 | |
| Calcium Total EPA 200.7/6010 (ICP) | 22.5 | 0.02 | mg/L | 1 | 8021817 | 02/18/08 | 02/21/08 16:35 | |
| ron Total EPA 200.7/6010 (ICP) | 165 | 0.7 | ug/L | 1 | | | | |
| litrate-Nitrite, Total EPA 353.2 | 0.005 I | 0.003 | - | 1 | 8021817 | 02/18/08 | 02/21/08 16:35 | v |
| oluble Reactive Phosphate EPA 365.2 | | | mg/L | 1 | 8021418 | 02/14/08 | 02/14/08 15:06 | |
| | 0.514 | 0.002 | mg/L | 1 | 8021404 | 02/14/08 | 02/14/08 09:46 | • |
| ulfate, Total EPA 375.4 | 7.42 | 0.33 | mg/L | 1 | 8022807 | 02/28/08 | 02/28/08 12:00 | |
| otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.55 | 0.08 | - | 1 | | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | | | mg/L | 1 | 8022505 | 02/25/08 | 02/26/08 00:00 | |
| otal Suspended Solids EPA 160.2 - 100mL | 1.97 | 0.16 | mg/L | 2 | 8022103 | 02/21/08 | 02/26/08 00:00 | |
| Suspended Solids EFA 160.2 - 100mL | 12.0 | 2.0 | mg/L | 1 | 8021809 | 02/18/08 | 02/18/08 12:00 | |

| | (| 0802136-08RI | E1 (Water |) | | | | |
|--|--------|--------------------|-----------|----------|---------|----------|----------------|-------|
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.938 | 0.018 | mg/L | 3 | 8022507 | 02/25/08 | 02/26/08 14:00 | rotes |



Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609

Project: Lake Hancock

Reported: 03/04/08 17:19

i.

QUALITY CONTROL FOR SAMPLES

Project Manager: Ron Clarke

Solids - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Batch 8021809 = Total Suspended Solid | s EPA 16 | 0.2 - 100m | L | | | | | | | |
| Blank (8021809-BLK1) | | | | | | | | | and a second | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Duplicate (8021809-DUP2) Source | : 0802136- | -06 | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 79.0 | 2.0 | mg/L | | 71.0 | | | 11 | 20 | |
| Reference (8021809-SRM1) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 80.0 | | mg/L | 74.5 | | 107 | 80-120 | | | |

Nutrients - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|-------------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Batch 8021404 = Soluble Reacti | ve Phosphate EPA | A 365.2 | | | | | | | | |
| Blank (8021404-BLK1) | | | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.002 U | 0.002 | mg/L | | | | · · · · · · | | | |
| Duplicate (8021404-DUP2) | Source: 0802136- | 06 | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.041 | 0.002 | mg/L | | 0.041 | | | 0 | 20 | |
| Matrix Spike (8021404-MS2) | Source: 0802136- | 07 | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.347 | | mg/L | 0.250 | 0.0911 | 102 | 80-120 | | | |
| Reference (8021404-SRM1) | | | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.624 | | mg/L | 0.610 | | 102 | 80-120 | | | |
| Batch 8021418 = Nitrate-Nitrite, | Total EPA 353.2 | | | | | | | | | |
| Blank (8021418-BLK1) | | | | | | | | | | |
| litrate-Nitrite, Total EPA 353.2 | 0.003 U | 0.003 | mg/L | | | | | | | |
| Duplicate (8021418-DUP3) | Source: 0802136-0 | 3 | | | | | | | | |
| litrate-Nitrite, Total EPA 353.2 | 0.007 | 0.003 | mg/L | | 0.006 | | A | 15 | 20 | |
| latrix Spike (8021418-MS3) | Source: 0802136-0 | 4 | | | | | | | 20 | |
| itrate-Nitrite, Total EPA 353.2 | 0.409 | 0.003 | mg/L | 0.400 | 0.006 | 101 | 90-110 | | | |
| - f | | | | | | | | | | |
| eference (8021418-SRM1) | | | | | | | | | | |

Serial: LAB-08034 52009

Page 9 of 14



Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609

Project: Lake Hancock

Project Manager: Ron Clarke

Reported: 03/04/08 17:19

Nutrients - Quality Control

| Analyte | Result | Reporting Limit | y Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Note |
|---|-------------------|--------------------|------------|----------------|---------------------------------------|------|----------------|-----|--------------|-------|
| Batch 8021418 = Nitrate-Nitrite | e, Total EPA 353. | 2 | | | | | | | | |
| Reference (8021418-SRM2) | | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 1.04 | 0.003 | mg/L | 1.00 | | 104 | 0-200 | | | No |
| Batch 8022002 = Ammonia, Tot | tal EPA 350.1 | | | | | | | | | |
| Blank (8022002-BLK1) | | | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.009 U | 0.009 | mg/L | | | | | | | |
| Duplicate (8022002-DUP2) | | | illg/L | | | | | | | |
| Ammonia, Total EPA 350.1 | Source: 0802136- | | | • | | • | - 1 | • | | |
| | 0.135 | 0.009 | mg/L | | 0.135 | | | 0 | 20 | |
| Matrix Spike (8022002-MS2) | Source: 0802136- | -06 | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.471 | 0.009 | mg/L | 0.400 | 0.101 | 92 | 80-120 | | | |
| Reference (8022002-SRM1) | | | | | | | 00 120 | | | |
| Ammonia, Total EPA 350.1 | 0.640 | 0.009 | mg/L | 0.635 | | 101 | 00.110 | | | |
| Batch 8022102 - Total Kint 1 | N | | Ū. | 0.055 | | 101 | 90-110 | | | |
| Batch 8022103 = Total Kjeldahl | Nitrogen, Total I | EPA 351.2 | | | | | | | | |
| Blank (8022103-BLK1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | ····· | | | | | |
| Blank (8022103-BLK2) | | | | | | | | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| CS (8022103-BS1) | | | 8-2 | | | | | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 1.80 | 0.08 | | | | | | | | |
| | 1.00 | 0.08 | mg/L | 2.00 | | 90 | 90-110 | | | • * * |
| CS (8022103-BS2) otal Kjeldahl Nitrogen, Total EPA 351.2 | | | | | | | | | | |
| | 1.94 | 0.08 | mg/L | 2.00 | | 97 | 90-110 | | | |
| atch 8022114 = Total Phosphor | us, Total EPA 36 | 5.3 (Snec) | | | | | | | | |
| lank (8022114-BLK1) | | (Spec) | | | | | | | | |
| otal Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | | | | | | | | |
| | 0.000 0 | 0.000 | mg/L | | | | | | | |
| lank (8022114-BLK2) | | | | | | | | | | |
| otal Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| lank (8022114-BLK3) | | | | | | | | | | |
| otal Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | · · · · · · · · · · · · · · · · · · · | | | | | |
| ank (8022114-BLK4) | | | 5 | | | | | | | |
| tal Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | m ~/I | | | | - | | | |
| (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 0.000 U | 0.000 | mg/L | | | | | ~ | | |

Serial: LAB-08034 52009



| Wetland Solutions, Inc. | | |
|-------------------------|-----------------------------|------------------|
| 2809 NW 161 Ct | Project: Lake Hancock | |
| Gainesville, FL 32609 | Project Manager: Ron Clarke | Reported: |
| | | 03/04/08 17:19 |

Nutrients - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------------|--------------------|-------|----------------|------------------|-------|----------------|-------|--------------|-------|
| Batch 8022114 = Total Phosphorus, T | otal EPA 3 | 65.3 (Spec | | | | | | | | |
| Blank (8022114-BLK5) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| Blank (8022114-BLK6) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| Reference (8022114-SRM1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.092 | 0.006 | mg/L | 0.108 | | 85 | 0-200 | | | |
| Batch 8022505 = Total Kjeldahl Nitro | gen, Dissolv | ved EPA 3 | 51.2 | | | | • | | | |
| Blank (8022505-BLK1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| Blank (8022505-BLK2) | | | | | | | | | | |
| Fotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| LCS (8022505-BS1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.88 | 0.08 | mg/L | 2.00 | | 94 | 90-110 | | | |
| LCS (8022505-BS2) | | | | | | | | | | |
| otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.86 | 0.08 | mg/L | 2.00 | | 93 | 90-110 | | | |
| 8atch 8022507 = Total Phosphorus, To | tal EPA 36 | 5.3 (Spec) | | | | | | | | |
| Blank (8022507-BLK1) | | | | | | | | ····· | | |
| otal Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | . · · | · · | , | | |
| Source (8022507-DUP2) | e: 0802136-0 | 3RE1 | | | | | | | | |
| otal Phosphorus, Total EPA 365.3 (Spec) | 0.923 | 0.018 | mg/L | | 0.908 | | | 2 | 20 | |
| Iatrix Spike (8022507-MS3) Source | e: 0802136-0 | 2RE2 | | | | | | | | |
| otal Phosphorus, Total EPA 365.3 (Spec) | 2.20 | 0.031 | mg/L | 1.33 | 0.887 | 99 | 80-120 | | | |
| eference (8022507-SRM1) | | | | | | | | | | |
| otal Phosphorus, Total EPA 365.3 (Spec) | 0.098 | 0.006 | mg/L | 0.108 | | 91 | 0-200 | | | |
| atch 8030408 = Soluble Reactive Phos | phate EPA | 365.2 | | | | | | | | |
| lank (8030408-BLK1) | | | | | | | | | | |
| luble Reactive Phosphate EPA 365.2 | 0.002 U | 0.002 | mg/L | | | | | | | |
| uplicate (8030408-DUP2) Source | : 0802136-01 | DF1 | 5 | | | | | • | | |
| luble Reactive Phosphate EPA 365.2 | 0.193 | 0.002 | ma/I | | 0.000 | | | | | |
| | | 0.002 | mg/L | | 0.200 | | | 4 | 20 | |

Serial: LAB-08034 52009

| Advanced Environmental Labo | ratories, loc. | | | | | | NE | CLAP C | Gainesvil 352.377 352.3 | V Archer F lle, FL 3260 7.2349 Phoi 195.6639 F≇ DH #E8200 |
|--|----------------|--------------------|---------------------------|----------------|------------------|------|----------------|--------|-------------------------------|---|
| Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609 | | | Project: La anager: Rc | | k | | | | Report 03/04/08 | |
| | | Nutrien | ts - Qual | ity Cont | rol | | | | | |
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 8030408 = Soluble Reactive P | hosphate EP | A 365.2 | | | | | | | | |
| Reference (8030408-SRM1) Soluble Reactive Phosphate EPA 365.2 | 1.27 | 0.004 | mg/L | 1.22 | | 104 | 80-120 | | | |
| | | Mineral | s - Quali | ty Conti | ol | | | | | |
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 8022704 = Sulfate, Total EPA | 375.4 | | | | | | | | | ivotes |
| Blank (8022704-BLK1) | | | | | | | | | | |
| Sulfate, Total EPA 375.4 | 0.33 U | 0.33 | mg/L | | | | | | | |
| Reference (8022704-SRM1) | | | | | | | | | | |
| ulfate, Total EPA 375.4 | 30.9 | | mg/L | 29.1 | | 106 | 90-110 | | | |
| | | | | | | | | | | |
| Batch 8022807 = Sulfate, Total EPA | 375.4 | | | | | | | | | |
| | 375.4 | | | 118 | | | | | | |
| Blank (8022807-BLK1) | 0.20 U | 0.20 | mg/L | | | | | | | |
| Blank (8022807-BLK1) Sulfate, Total EPA 375.4 | | 0.20 | mg/L | | | | | | | |
| Batch 8022807 = Sulfate, Total EPA Blank (8022807-BLK1) Sulfate, Total EPA 375.4 Reference (8022807-SRM1) Sulfate, Total EPA 375.4 | | 0.20 | mg/L mg/L | 29.1 | | 104 | 90-110 | | | |

Metals by EPA 200 Series Methods - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|-------------------------|---------------------|----------------------|--------------------|------------------|-----------------|----------------------------|-----|--------------|---------------------------------------|
| Batch 8021817 = ICP Metals | | | | | | | | | | |
| Blank (8021817-BLK1) | | | | | | | | | | · · · · · · · · · · · · · · · · · · · |
| Aluminum Total EPA 200.7/6010 (ICP) Calcium Total EPA 200.7/6010 (ICP) Iron Total EPA 200.7/6010 (ICP) | 13.9 U 0.02 U 0.7 | 13.9 0.02 0.7 | ug/L mg/L ug/L | | | | | | | V |
| LCS (8021817-BS1) Iron Total EPA 200.7/6010 (ICP) Aluminum Total EPA 200.7/6010 (ICP) Calcium Total EPA 200.7/6010 (ICP) | 99.8 92.6 9.72 | 0.7 13.9 0.02 | ug/L ug/L mg/L | 100 100 10.0 | | 100 93 97 | 85-115 85-115 85-115 | | | • |

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Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609

Project: Lake Hancock

Project Manager: Ron Clarke

Reported: 03/04/08 17:19

Metals by EPA 200 Series Methods - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------------|-----------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------------|
| Batch 8021817 = ICP Metals | | | | | | | | | - Shint | Hotes |
| Duplicate (8021817-DUP2) | Source: 080213 | 6.06 | | | | | | | | |
| Aluminum Total EPA 200.7/6010 (ICP) | 576 | 13.9 | /1 | | | | | | | |
| Calcium Total EPA 200.7/6010 (ICP) | 37.8 | | ug/L | | 581 | | | 0.9 | 20 | |
| Iron Total EPA 200.7/6010 (ICP) | 4390 | 0.02 | mg/L | | 38.2 | | | 1 | 20 | |
| | 4390 | 0.7 | ug/L | | 4430 | | | 0.9 | 20 | |
| Matrix Spike (8021817-MS2) | Source: 0802136 | 5-07 | | | | | | | | |
| Aluminum Total EPA 200.7/6010 (ICP) | 311 | 13.9 | ug/L | 100 | 004 | | | | | |
| Calcium Total EPA 200.7/6010 (ICP) | 44.3 | 0.02 | • | 100 | 284 | 27 | 75-125 | | | PSIN |
| fron Total EPA 200.7/6010 (ICP) | 1820 | 0.02 | mg/L | 10.0 | 36.2 | 81 | 75-125 | | | |
| | 1020 | 0.7 | ug/L | 100 | 1790 | 30 | 75-125 | | * ' | ÞSIN |
| Post Spike (8021817-PS2) | Source: 0802136 | -07 | | | | | | | | |
| Aluminum Total EPA 200.7/6010 (ICP) | 5140 | | ug/L | 5310 | 075 | | | | | |
| ron Total EPA 200.7/6010 (ICP) | 6590 | | - | | 275 | 92 | 75-125 | | | |
| Calcium Total EPA 200.7/6010 (ICP) | 78.8 | | ug/L | 5310 | 1730 | 92 | 75-125 | | | |
| () | /0.0 | | mg/L | 49.0 | 35.0 | 89 | 75-125 | | | |



Wetland Solutions, Inc. 2809 NW 161 Ct Project: Lake Hancock Gainesville, FL 32609 Project Manager: Ron Clarke **Reported:** 03/04/08 17:19 NOTES AND DEFINITIONS v Analyte present in blank and samples. Poor matrix spike recovery; post digestion spike within acceptance criteria. PSIN The difference of the concentrations of the sample and its duplicate is low in comparison to the MDL. It is the general policy of the D-RNG laboratory that when the range is at this level the sample is not rerun and the data is considered acceptable. CUST Value 86%, within criteria per SOP Analyte not detected at or above the method detection limit U I Analyte not detected above the practical quantitation limit. NR Not Reported Sample results reported on a dry weight basis dry RPD Relative Percent Difference

Serial: LAB-08034 52009

| | | | | | | | | 202 | | | | |
|--|----------|--------------------|-----------------|--------------------|--------------|-----------|---------------|---------------|---|----------------|------------------|--------------------------------|
| Date / Time | | | | | Date / Time | | 0830 | 2-14-08 | Date / Time 2 | 08:27 | | 2・14・08 Date / Time |
| Company | | | | | any | Company | | AEL | Company A | | tions, Inc. | Wetland Solutions, Inc. |
| Printed Name | | · . | | | Printed Name | Printe | tin | l lluar | Printed Name Que (| | – | Henry Brennan Printed Name |
| Signature | | | | | lture | Signature | | a la | Signature 4 | 200 | Bren | Signature |
| RECEIVED BY: | | ED BY: | RELINQUISHED BY | RELINO | | | | RECEIVED BY: | В |) BY: | RELINQUISHED BY: | RELI |
| | | | | | | - | | | | | | |
| | | + | | | | | | | | | | |
| | | | | | | - | | | | | | |
| 6 | | | | | | | | | | | | |
| | | _ | | | _ | | GRAB | WS | DUP | | 1124 | 2/13/2008 |
| 6 | | × | _ | | _ | - | GRAB | WS | C-2 | | 1030 | 2/13/2008 |
| -06 | | | | _ | _ | | GRAB | WS | C-1 | | 1001 | 2/13/2008 |
| -0- | ^ | | ×× | | | | GRAB | SW | W-5 | | 1226 | 2/13/2008 |
| 200 | ? | | | | | | GRAB | SW | W-4 | | 1140 | 2/13/2008 |
| 20- | _ | | - | | | | GRAB | WS | W-3 | | 1124 | 2/13/2008 |
| 10% | | | | | × | | GRAB | WS | W-2 | | 1112 | 2/13/2008 |
| 101 | <u>-</u> | | | | × | | GRAB | SM | W-1 | | 1059 | 2/13/2008 |
| REMARKS / ALTERNATE DESC | | SO4 | Ca, Fe | NH3 / I TP / Ór | TSS | | GRAB/ COMP | MATRIX | SAMPLE I. D. | SAM | TIME | DATE |
| | | -, AI | | | | | | P (Periphyton | Matrix: SW (Surface Water), GW (Ground Water), S (Soil), P (Periphyton) | , GW (Ground | rface Water) | Matrix: SW (Su |
| | | | | | (71/) | | | | | | | |
| 2. NHO3 5. Other | | | | | | | | | | ield. | filtered in f | No samples filtered in field. |
| 0. NONE 3. H2SO4 1. HCL 4. Sodium Thiosulfate | | | | | <u></u> | | | | | | | No Chl a. |
| PRESE | | | | | | | | | | omments: | uctions/Co | Special Instructions/Comments: |
| Laboratories, inc. | | TIVE | PRESERVATIVE | PRE | | | Rush | | Standard | × | UND TIME: | TURN AROUND TIME: |
| LAB: Advanced Environmental | Ð | ANALYSIS REQUESTED | IS REC | VALYS | A | | 32609 | esville, FL | 2809 NW 161 Court, Gainesville, FL 32609 | | ADDRESS: | |
| Page 1 of 1 | | | me. | N. | ſ | | | nc.com | ckeller@wetlandsolutionsinc.com | | E-MAIL: | |
| | 1S, | no | | SIS | N N | | | | 3196 | (386) 462-3196 | FAX: | |
| 00-080×100 | | Wetland | Wei | Ň | | | | | 9286 | | PHONE: | |
| (C. 1 & | | | | Ŧ | | | | | | | MANAGER: | PROJECT MANAGER: |
| I-OF-CUSTODY FORM | OF-CU | CHAIN- | 오 | | | | | n Study | Lake Hancock Vegetation Study | | PROJECT: | |
| | | | | | | | | | | - | | |

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Advanced Environmental Labs Inc

Advanced Environmental Labs 6815 SW Archer Rd. Gainesville, FL 32608

Client: <u>Wetland Solutions</u> Project name: ______ Date/Time Rcvd: <u>2-14-08/0830</u> Log-In request number: _______ Project name: Lake Hancock Received by: Completed by:

Cooler/Shipping Information:

Courier: □ AEL I Client □ UPS □ Pony Express □ FedEx □ Blue Streak □ ASAP □ Other (describe): _____

Type: Cooler D Box D Other (describe) Used LT-1 mini temp. F.S.

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

| Cooler ID | C'~) | | | | |
|-----------------|---------------------------------|---------------------------------|---|---|---|
| Temp (°C) | 1.2°C | | | - | |
| Temp taken from | □ Temp blank □ Sample bottle | □ Temp blank □ Sample bottle | Temp blank | Temp blank | Temp blank |
| Tomp | IR gun | □ IR gun | □ Sample bottle □ IR gun □ Thermometer (enter ID): | □ Sample bottle □ IR gun □ Thermometer (enter ID): | □ Sample bottle □ IR gun □ Thermometer (enter ID): |

Other Information:

Any "NO" responses or discrepancies should be explained in the "Comments" section below.

| CHECKLIST | YES | NO | NI A |
|--|------------------|----|--------------|
| 1. Were custody seals on shipping container(s) intact? | 1125 | no | |
| 2. Were custody papers properly included with samples? | | | |
| 3. Were custody papers properly filled out (ink, signed, match labels)? | | | |
| 4. Did all bottles arrive in good condition (unbroken)? | $-\xi$ | | · · · · · |
| 5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)? | | | |
| 6. Did the sample labels agree with the chain of custody? | | | |
| 7. Were correct bottles used for the tests indicated? | $+ \times$ | | |
| 8. Were proper sample preservation techniques indicated on the label? | | | |
| 9. Were samples received within holding times? | $- \mathcal{X} $ | | |
| 10. Were all VOA vials checked for the presence of air bubbles? | | | |
| 11. Were there air bubbles present in the VOA vials? | | | × |
| 12. Were samples in direct contact with wet ice? If "No," check one: \Box NO ICE \Box BLUE ICE | | | \mathbf{x} |
| 13. Was the cooler temperature less than 6°C? | | | |
| 14. Were sample pHs checked and recorded by Sample Control? | | | |
| NOTE: VOA samples are checked by laboratory analysis. | | | |
| 15. Were the sample containers provided by AEL? | | | |
| 16. Were samples accepted into the laboratory? | | | |
| set provide and the faboratory? | $ \times $ | | |

Comments:

C:\Documents and Settings\TWilliams\Desktop\Login Checklist.doc



6815 SW Archer Road Gainesville, Florida 32608 (352) 377-2349 FAX (352) 395-6639

March 18, 2008

Ron Clarke Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609 RE: Lake Hancock Work Order: 0803039

Enclosed are the results of analyses for samples received by the laboratory on March 6, 2008.

All data were determined in accordance with published procedures (EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Rev March 1983; and Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992). Our laboratory is certified by Florida Department of Health (FDH No. E82001).

All results were determined in accordance with NELAP requirements and in accordance with the chain of custody document unless noted in the report case narrative or data report. All data is subject to a degree of uncertainty. For a discussion of laboratory uncertainty, please contact your project manager. This analytical report must be reproduced in its entirety.

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

Sincerely,

Karen Daniels Operations Manager kdaniels@aellab.com

Advanced Environmental Laboratories

Serial: LAB-080318 35006

Page 1 of 10

NELAC requires that any value reported be listed as having less certainty if the result is between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ). The levels shown in the table below are the laboratories MDL and LOQ. Any result reported that falls between these two values should be considered to have less certainty.

| Analyte Ammonia | unit | | MDL | LOQ |
|--|--------------|-------------------|-------|------|
| Chloride | mg/L | EPA 350.1 | 0.009 | 0.0 |
| Chromium +6 | mg/L | EPA 325.2 | 0.12 | |
| COD | ug/L | 3500CrB, EPA 7196 | 4.5 | 7 |
| Conductivity | mg/L | EPA 410.4 | 6.2 | 7 |
| Cyanide | uS/cm | EPA 120.1 | 9.2 | |
| Fluoride (undistilled) | mg/L | 335.2, 9010/9014 | 0.002 | 0.00 |
| Kjeldahl Nitrogen (Alpkem - CuSO4 digestion) | mg/L mg/L | EPA 340.2 | 0.02 | 0.0 |
| Nitrite (Spectrophotometer) | | EPA 351.2 | 0.08 | 0 |
| Nitrite/Nitrate | mg/L | EPA 353.3 | 0.004 | 0.00 |
| Organic Carbon | mg/L | EPA 353.2 | 0.003 | 0.00 |
| Ortho Phosphorus, Genesys II | mg/L mg/L | EPA 415.2 | 0.7 | |
| Dissolved Silica | mg/L mg/L | EPA 365.2 | 0.002 | 0.00 |
| Sulfate | mg/L mg/L | EPA 370.1 | 0.05 | |
| Fotal Carbon | mg/L | EPA 375.4 | 0.33 | |
| Total Phosphorus, Spec - Genesys II | mg/L | EPA 415.2 | 0.5 | |
| Total Phosphorus, Alpkem | | EPA 365.3 | 0.006 | 0.00 |
| urbidity | mg/L | EPA 365.1 | 0.002 | 0.00 |
| lilver | NTU | EPA 180.1 | 0.03 | 0. |
| in | ug/L | EPA 272.2/7761 | 0.1 | 0.1 |
| luminum | ug/L | EPA 282.2/7871 | 1.8 | 3.12 |
| ntimony | ug/L | EPA 200.7/6010 | 13.9 | 50 |
| rsenic | ug/L | EPA 200.7/6010 | 2.9 | 5(|
| arium | ug/L | EPA 200.7/6010 | 2.3 | 5(|
| eryllium | ug/L | EPA 200.7/6010 | 0.2 | - 50 |
| oron | ug/L | EPA 200.7/6010 | 0.10 | 50 |
| admium | ug/L | EPA 200.7/6010 | 1.5 | 50 |
| alcium | ug/L | EPA 200.7/6010 | 0.4 | 50 |
| hromium | mg/L | EPA 200.7/6010 | 0.02 | 0.05 |
| obalt | ug/L | EPA 200.7/6010 | 0.4 | 50 |
| opper | ug/L | EPA 200.7/6010 | 0.4 | 50 |
| on | ug/L | EPA 200.7/6010 | 0.4 | 50 |
| ad | ug/L | EPA 200.7/6010 | 0.7 | · 50 |
| agnesium | ug/L | EPA 200.7/6010 | 1.9 | 50 |
| anganese | mg/L | EPA 200.7/6010 | 0.014 | 0.05 |
| blybdenum | ug/L | EPA 200.7/6010 | 0.15 | 50 |
| ckel | ug/L | EPA 200.7/6010 | 0.7 | 50 |
| tassium | ug/L | EPA 200.7/6010 | 0.7 | 50 |
| enium | mg/L | EPA 200.7/6010 | 0.006 | 0.05 |
| dium | | EPA 200.7/6010 | 2.4 | 50 |
| ontium | | EPA 200.7/6010 | 0.065 | 0.1 |
| allium | | EPA 200.7/6010 | 0.19 | 50 |
| anium | | EPA 200.7/6010 | 3.6 | 50 |
| ıadium | | EPA 200.7/6010 | 0.26 | 50 |
| c | 1 1 | EPA 200.7/6010 | 0.5 | 50 |
| | ug/L | EPA 200.7/6010 | 1.65 | 50 |

Serial: LAB-080318 35009

Page 2 of 10

6815 SW Archer Rd Advaced Gainesville, FL 32608 Environmental Laboratories, Inc. 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001 Wetland Solutions, Inc. 2809 NW 161 Ct Project: Lake Hancock **Reported:** Gainesville, FL 32609 Project Manager: Ron Clarke 03/18/08 15:49 ANALYTICAL REPORT FOR SAMPLES Sample ID Laboratory ID Matrix **Date Sampled Date Received** W - 1 0803039-01 Water 03/05/08 08:05 03/06/08 08:20 W - 2 0803039-02 Water 03/05/08 08:50 03/06/08 08:20 W - 3

Water

Water

Water

Water

Water

Water

03/05/08 09:04

03/05/08 09:14

03/05/08 10:02

03/05/08 09:25

03/05/08 09:36

03/05/08 09:14

03/06/08 08:20

03/06/08 08:20

03/06/08 08:20

03/06/08 08:20

03/06/08 08:20

03/06/08 08:20

0803039-03

0803039-04

0803039-05

0803039-06

0803039-07

0803039-08

W - 4

W - 5

C - 1

C - 2

DUP



| Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Pro | Project: ject Manager: | | Reported: 03/18/08 15:49 | | | | |
|--|---|---|--|---------------------------------|--|--|--|-------|
| | R | EPORT OJ W - 0803039-01 | 1 | TS | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | | |
| Ammonia, Total EPA 350.1 Nitrate-Nitrite, Total EPA 353.2 Soluble Reactive Phosphate EPA 365.2 Total Kjeldahl Nitrogen, Dissolved EPA 351.2 Total Kjeldahl Nitrogen, Total EPA 351.2 Total Phosphorus, Total EPA 365.3 (Spec) Total Suspended Solids EPA 160.2 - 100mL | 0.089 0.015 0.135 4.54 8.21 1.39 59.0 | 0.009 0.003 0.002 0.08 0.16 0.030 2.0 | mg/L mg/L mg/L mg/L mg/L mg/L | 1 1 1 2 5 | 8031401 8031111 8030616 8031206 8031205 8031108 | 03/14/08 03/11/08 03/06/08 03/12/08 03/12/08 03/11/08 | Analyzed 03/14/08 13:31 03/12/08 13:51 03/06/08 14:45 03/13/08 00:00 03/13/08 00:00 03/12/08 13:00 | Notes |
| | 57.0 | 2.0 W - 2 | mg/L | 1 ' | 8030707 | 03/07/08 | 03/07/08 12:00 | |

0803039-02 (Water)

| Analysis | Result | Reporting Limit | Units | Dilution | Patak | D | | |
|--|--------|--------------------|-------|----------|---------|----------|----------------|-------|
| Ammonia, Total EPA 350.1 | 0.061 | 0.000 | | Dilution | Batch | Prepared | Analyzed | Notes |
| Nitrate-Nitrite, Total EPA 353.2 | 0.001 | 0.009 | mg/L | 1 | 8031401 | 03/14/08 | 03/14/08 13:37 | |
| | 0.016 | 0.003 | mg/L | 1 | 8031111 | 03/11/08 | 03/12/08 13:52 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.229 | 0.002 | • | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | | | mg/L | 1 | 8030616 | 03/06/08 | 03/06/08 14:45 | |
| | 3.82 | 0.08 | mg/L | 1 | 8031206 | 03/12/08 | 03/13/08 00:00 | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 5.05 | 0.16 | mg/L | 2 | 0021005 | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.18 | 0.010 | • | 2 | 8031205 | 03/12/08 | 03/13/08 00:00 | |
| otal Suspended Solids EPA 160.2 - 100mL | 1.10 | 0.012 | mg/L | 2 | 8031108 | 03/11/08 | 03/12/08 13:00 | |
| Tom Suspended Solids EFA 160.2 - 100mL | 21.0 | 2.0 | mg/L | 1 | 8030707 | | 03/07/08 12:00 | |
| | | | | | | | | |

W - 3

0803039-03 (Water)

| · · | | | | | | | | |
|--|---------|--------------------|--------|----------|---------|----------|----------------|-------|
| Analysis | Result | Reporting Limit | II. to | | | | | |
| Ammonia, Total EPA 350.1 | | | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Nitrate-Nitrite, Total EPA 353.2 | 0.048 | 0.009 | mg/L | 1 | 8031401 | 03/14/08 | 03/14/08 13:34 | |
| | 0.009 I | 0.003 | mg/L | 1 | 8031111 | 03/11/08 | 03/12/08 13:53 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.491 | 0.002 | mg/L | - | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.75 | 0.08 | - | 1 | 8030616 | 03/06/08 | 03/06/08 14:45 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | | | mg/L | 1 | 8031206 | 03/12/08 | 03/13/08 00:00 | |
| | 3.98 | 0.08 | mg/L | 1 | 8031205 | 03/12/08 | 03/13/08 00:00 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.31 | 0.012 | mg/L | 2 | 8031108 | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 23.0 | 2.0 | Ũ | 2 | | 03/11/08 | 03/12/08 13:00 | |
| | 25.0 | 2.0 | mg/L | 1 | 8030707 | 03/07/08 | 03/07/08 12:00 | |

Γ



Advanced Environmental Laboratories, Inc. 6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

| Wetland Solutions, Inc. | | | | | | | | |
|--|---------|--------------------|--------------|----------|--------------------|----------|-------------------------|--------------------|
| 2809 NW 161 Ct | | Project: | Lake Hancoo | ck | | | | |
| Gainesville, FL 32609 | Pro | ject Manager: | | | | · . | = | orted: 08 15:49 |
| | | W | - 4 | | | | 05/16/ | |
| | | 0803039-0 | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilutio | n Patah | | | |
| Ammonia, Total EPA 350.1 | 0.061 | 0.009 | mg/L | 1 | n Batch 8031401 | Prepared | Analyzed 03/14/08 13:44 | Note |
| Nitrate-Nitrite, Total EPA 353.2 | 0.011 I | 0.003 | mg/L | 1 | 8031401 | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.180 | 0.002 | mg/L | | | | 03/12/08 13:54 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.82 | 0.08 | mg/L | 1 | 8030616 | | 03/06/08 14:45 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 6.03 | 0.16 | mg/L | 1 2 | 8031206 | | 03/13/08 00:00 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.52 | 0.060 | mg/L | | 8031205 | | 03/13/08 00:00 | |
| Total Suspended Solids EPA 160.2 - 100mL | 40.0 | 2.0 | mg/L | 10 | 8031108 | 03/11/08 | 03/12/08 13:00 | |
| | | | - | 1 | 8030707 | 03/07/08 | 03/07/08 12:00 | |
| | | W - 0803039-05 | | | | | · · · | • |
| nalysis | | Reporting | | - | | | | |
| Ammonia, Total EPA 350.1 | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| litrate-Nitrite, Total EPA 353.2 | 0.150 | 0.009 | mg/L | 1 | 8031401 | 03/14/08 | 03/14/08 13:45 | |
| oluble Reactive Phosphate EPA 365.2 | 0.044 | 0.003 | mg/L | 1 | 8031111 | 03/11/08 | 03/12/08 13:55 | |
| otable Reactive Filosphate EPA 365.2 | 0.014 | 0.002 | mg/L | 1 | 8030616 | 03/06/08 | 03/06/08 14:45 | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 4.64 | 0.08 | mg/L | 1 | 8031206 | 03/12/08 | 03/13/08 00:00 | |
| | 17.5 | 0.40 | mg/L | 5 | 8031205 | 03/12/08 | 03/13/08 00:00 | |
| otal Phosphorus, Total EPA 365.3 (Spec) | 0.730 | 0.012 | mg/L | 2 | 8031108 | 03/11/08 | 03/12/08 13:00 | |
| otal Suspended Solids EPA 160.2 - 100mL | 172 | 2.0 | mg/L | 1 | 8030707 | 03/07/08 | 03/07/08 12:00 | |
| | | C - 2 | 1 | | | | | |
| | | 0803039-06 | (Water) | | | · . | · • | |
| nalysis | Result | Reporting Limit | Units | D.1 | D. () | | | |
| nmonia, Total EPA 350.1 | 1.17 | 0.027 | | Dilution | Batch | Prepared | Analyzed | Notes |
| trate-Nitrite, Total EPA 353.2 | 0.013 | 0.003 | mg/L | 3 | 8031401 | | 03/14/08 13:53 | |
| luble Reactive Phosphate EPA 365.2 | 0.016 | 0.002 | mg/L mg/I | 1 | 8031111 | | 03/12/08 13:56 | |
| tal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 6.29 | 0.002 | mg/L | | 8030616 | | 03/06/08 14:45 | |
| tal Kjeldahl Nitrogen, Total EPA 351.2 | 10.1 | 0.10 | mg∕L ma∕l | | 8031206 | | 03/13/08 00:00 | |
| tal Phosphorus, Total EPA 365.3 (Spec) | 0.632 | | mg/L | | 8031205 | | 03/13/08 00:00 | |
| tal Suspended Solids EPA 160.2 - 100mL | 35.0 | 0.030 | mg/L | | 8031108 | | 03/12/08 13:00 | |
| | 53.0 | 2.0 | mg/L | 1 | 8030707 | 03/07/08 | 03/07/08 12:00 | |

Advanced Environmental Laboratories, Inc.

6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

2

| Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Pro | Project: oject Manager: | Lake Hanco Ron Clarke | | | | | orted:)8 15:49 |
|--|---------|----------------------------|--------------------------|----------|---------|----------|----------------------------|--------------------|
| | | C - 0803039-0 | | | | | | |
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | | |
| Ammonia, Total EPA 350.1 | 1.14 | 0.027 | mg/L | 3 | 8031401 | | Analyzed 03/14/08 13:55 | Notes |
| litrate-Nitrite, Total EPA 353.2 | 0.012 I | 0.003 | mg/L | 1 | 8031111 | | 03/14/08 13:55 | |
| oluble Reactive Phosphate EPA 365.2 | 0.022 | 0.002 | mg/L | 1 | 8030616 | | 03/06/08 14:06 | |
| otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 6.30 | 0.16 | mg/L | 2 | 8031206 | | 03/13/08 00:00 | |
| tal Kjeldahl Nitrogen, Total EPA 351.2 | 10.5 | 0.32 | mg/L | 4 | 8031205 | 03/12/08 | 03/13/08 00:00 | |
| otal Phosphorus, Total EPA 365.3 (Spec) | 0.621 | 0.030 | mg/L | 5 | 8031108 | 03/11/08 | 03/12/08 13:00 | |
| otal Suspended Solids EPA 160.2 - 100mL | 35.0 | 2.0 | mg/L | 1 | 8030707 | 03/07/08 | 03/07/08 12:00 | |
| | | · DU | p . | | | | | |
| | | 0803039-08 | (Water) | | | | · | · |
| alysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | | _ |
| nmonia, Total EPA 350.1 | 0.060 | 0.009 | mg/L | 1 | 8031401 | | Analyzed 03/14/08 13:48 | Notes |
| rate-Nitrite, Total EPA 353.2 | 0.016 | 0.003 | mg/L | | 8031111 | | 03/12/08 13:48 | |
| uble Reactive Phosphate EPA 365.2 | 0.188 | 0.002 | mg/L | | 8030616 | | 03/06/08 14:45 | |
| al Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.73 | 0.08 | mg/L | | 8031206 | | 03/13/08 00:00 | |
| al Kjeldahl Nitrogen, Total EPA 351:2 | 6.77 | 0.16 | mg/L | 1.1 | | | 03/13/08 00:00 | |
| al Phosphorus, Total EPA 365.3 (Spec) al Suspended Solids EPA 160.2 - 100mL | 1.50 | 0.030 | mg/L | | 8031108 | | 03/12/08 13:00 | |
| in Suspended Solids EPA 160.2 - 100mL | 38.0 | 2.0 | mg/L | | | | | |



Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609

Project: Lake Hancock

Project Manager: Ron Clarke

Reported: 03/18/08 15:49

QUALITY CONTROL FOR SAMPLES

Solids - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|-------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Batch 8030707 = Total Suspended Solid | ls EPA 16 | 0.2 - 100ml | Ĺ | | | | | | | |
| Blank (8030707-BLK1) | | | | | <u></u> | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Blank (8030707-BLK2) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Duplicate (8030707-DUP4) Sourc | e: 0803039- | 06 | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 35.0 | 2.0 | mg/L | | 35.0 | | | 0 | 20 | |
| Reference (8030707-SRM1) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 76.0 | | mg/L | 74.5 | | 102 | 80-120 | | | |
| Reference (8030707-SRM2) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 68.0 | | mg/L | 74.5 | | 91 | 80-120 | | | |

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|------------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Batch 8030616 = Soluble Reactiv | e Phosphate EPA | A 365.2 | | | | | | | | |
| Blank (8030616-BLK1) | | | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.002 U | 0.002 | mg/L | | | | | | | , |
| Duplicate (8030616-DUP1) | Source: 0803039- | 01 | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.135 | 0.002 | mg/L | | 0.135 | | | 0 | 20 | |
| Matrix Spike (8030616-MS1) | Source: 0803039- | 02 | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.488 | | mg/L | 0.250 | 0.224 | 106 | 80-120 | | | |
| Reference (8030616-SRM1) | | | | | | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.649 | | mg/L | 0.610 | | 106 | 80-120 | | | |
| Batch 8031108 = Total Phosphor | us, Total EPA 36 | 5.3 (Spec) | | | | | | | | |
| Blank (8031108-BLK1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| Reference (8031108-SRM1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.099 | 0.006 | mg/L | 0.108 | | 92 | 0-200 | | | |



| Wetland Solutions, Inc. | | |
|-------------------------|-----------------------------|---------------------------------|
| 2809 NW 161 Ct | Project: Lake Hancock | |
| Gainesville, FL 32609 | Project Manager: Ron Clarke | Reported: 03/18/08 15:49 |

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|------------------|--------------------|-------|----------------|------------------|------|----------------|--------|--------------|-------|
| Batch 8031108 = Total Phosphor | us, Total EPA 3 | 65.3 (Spec |) | | | | | | Same | note |
| Batch 8031111 = Nitrate-Nitrite, | | | / | | | | | ······ | | |
| Blank (8031111-BLK1) | | 4 | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.003 U | 0.003 | mg/L | <u>.</u> | | | | | | |
| Duplicate (8031111-DUP4) | Source: 0803039- | 07 | · | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.014 | 0.003 | ma/I | | | | | | | |
| Matrix Spiles (0021111 ACCA) | | | mg/L | | 0.013 | | | 7 | 20 | |
| Matrix Spike (8031111-MS4) Nitrate-Nitrite, Total EPA 353.2 | Source: 0803039- | | | × | | | | | | |
| | 0.421 | 0.003 | mg/L | 0.400 | 0.012 | 102 | 90-110 | | | • |
| Reference (8031111-SRM1) | | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 1.31 | 0.003 | mg/L | 1.38 | | 95 | 00.110 | | | |
| Reference (8031111-SRM2) | | | | 1100 | | 95 | 90-110 | | | |
| Vitrate-Nitrite, Total EPA 353.2 | 1.03 | 0.003 | /T | | | | | | | |
| , | | | mg/L | 1.00 | | 103 | 0-200 | | | |
| 8 Batch 8031205 = Total Kjeldahl N | itrogen, Total E | PA 351.2 | | | | | | | | |
| Blank (8031205-BLK1) | | | | | | | | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | · · · | |
| lank (8031205-BLK2) | | 0.00 | mg/L | | | | • • | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 0.00.75 | | | | | | | | | |
| | 0.08 U | 0.08 | mg/L | | | | | | | |
| CS (8031205-BS1) | | | | | | | | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 1.80 | 0.08 | mg/L | 2.00 | | 90 | 90-110 | | | |
| CS (8031205-BS2) | | | - | | | 70 | 90-110 | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 1.88 | 0.08 | | A 0.0 | | | | | | |
| | | | mg/L | 2.00 | | 94 | 90-110 | | | |
| atch 8031206 = Total Kjeldahl Ni | trogen, Dissolve | d EPA 351 | 1.2 | | | | | | | |
| ank (8031206-BLK1) | | | | | | | | | | |
| tal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| CS (8031206-BS1) | | | mg/L | | | | | | | |
| tal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.00 | | | | | | | | | |
| | 1.98 | 0.08 | mg/L | 2.00 | | 99 | 90-110 | | | |
| atch 8031401 = Ammonia, Total E | PA 350.1 | | | | | | | | | |
| ank (8031401-BLK1) | | | | | | | | | | |
| umonia, Total EPA 350.1 | 0.000 11 | 0.000 | | | | | | | | |
| | 0.009 U | 0.009 | mg/L | | | | | | | |



| Wetland Solutions, Inc. | | | |
|-------------------------|-----|-----------------------------|------------------------------------|
| 2809 NW 161 Ct | | Project: Lake Hancock | |
| Gainesville, FL 32609 | . · | Project Manager: Ron Clarke | Reported: 03/18/08 15:49 |
| | | | |

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|----------------------------|------------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Batch 8031401 = Ammonia, T | otal EPA 350.1 | | | | | | | | | |
| Duplicate (8031401-DUP2) | Source: 0803039- | 02 | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.064 | 0.009 | mg/L | | 0.061 | | | 5 | 20 | |
| Matrix Spike (8031401-MS2) | Source: 0803039- | 03 | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.431 | 0.009 | mg/L | 0.400 | 0.048 | 96 | 80-120 | | | |
| Reference (8031401-SRM1) | | | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.577 | 0.009 | mg/L | 0.635 | | 91 | 90-110 | | | |
| | | | | | | | | | | |



| | W 161 Ct Project: Lake Hancock ville, FL 32609 Project Manager: Ron Clarke | Reported: 03/18/08 15:49 |
|------------|--|---------------------------------|
| | NOTES AND DEFINITIONS | |
| S-REX | Poor matrix spike recovery; created reextract. | |
| S-CON | Poor matrix spike recovery on reastrate multiple in the second seco | |
| | Poor matrix spike recovery on reextract; results and recoveries confirm. | |
| D-RNG | The difference of the concentrations of the sample and its duplicate is low in comparison to the MDL. It is the same that it is the | 10 |
| | | ne |
| D-RNG | The difference of the concentrations of the sample and its duplicate is low in comparison to the MDL. It is the general policy of the laboratory that when the range is at this level the sample is not rerun and the data is considered acceptable. | ne |
| D-RNG | The difference of the concentrations of the sample and its duplicate is low in comparison to the MDL. It is the general policy of the laboratory that when the range is at this level the sample is not rerun and the data is considered acceptable. Analyte not detected at or above the method detection limit | 10 |
| D-RNG J | The difference of the concentrations of the sample and its duplicate is low in comparison to the MDL. It is the general policy of the laboratory that when the range is at this level the sample is not rerun and the data is considered acceptable. Analyte not detected at or above the method detection limit Analyte not detected above the practical quantitation limit. | ne |

| | | Lake Hallcock vegetation Study | | | | ۰ ۲ | NAIN-OF- | |
|--------------------------------|-----------------------|---|---------------------------------------|--------------|-------------|--------|--------------------|--|
| PROJECT MANAGER: | GER: Chris Keller | | | | 7 | u b | • | |
| PHO | PHONE: (386) 462-9286 | 86 | | | | 2 | Wetland | • |
| | FAX: (386) 462-3196 | 96 | | A s | | S | Solutions, | |
| E-N | E-MAIL: ckeller@wetl | ckeller@wetlandsolutionsinc.com | | 1 | NO1 | Finc. | O | Page 1 of 1 |
| ADDRESS: | | 2809 NW 161 Court, Gainesville, FL 32609 | FL 32609 | | ANAL | | ANALYSIS REQUESTED | ced Environme |
| TURN AROUND TIME: | IME: X | Standard | Rush | | ס | RESER | RESERVATIVE | |
| Special Instructions/Comments: | s/Comments: | | | | | | | PRESERVATIVE KEY |
| No Chi a | | | | - | | | | Ш |
| No samples filtered in field | d in field. | | | | | lved | | 1. HCL 4. Sodium Thiosulfate 2. NHO3 5. Other |
| | | | 1.0% | | | Disso | | - |
| Matrix: SW (Surface W | ater), GW (Ground W | Matrix: SW (Surface Water), GW (Ground Water), S (Soil), P (Periphyton) | | | 103 | 'KN | tho | |
| DATE TIME | | | | SS | H3 / I | KN / 1 | P / Or | |
| 3/5/2008 0805 | | | GRAB | × 1 | ~ ^ | < T | < T | HEMARKS / ALTERNATE DESC |
| 3/5/2008 085 | 0 W-2 | | | × | × : | < > | < > | |
| 3/5/2008 0904 | | | _ | × ; | × ; | < > | < > | |
| 3/5/2008 0914 | | | | × | × | × | < | |
| - | W-5 | | | × | × | × | × ; | |
| 3/5/2008 0925 | ^ -1 | | GRAB | × | × | × | × | |
| + | 0 C-2 | | GRAB | × | × | × | × | |
| 1160 8007/5/E | DUP | P SW | GRAB | × | × | × | × | |
| | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Sign Churchan | R | | | | REL | NQUIS | INQUISHED BY: | RECEIVED BY: |
| enhai | | Paul Hantin | - | c | | | | oiliname |
| | Carr | | | Printed Name | e | | | Printed Name |
| Wetland Solutions, Inc. | | Company AEC | | Company | | | | |
| 36-08 6818 Date / Time | Da | スティッシュ Date / Time | 220 | Date / Time | | | · · · . | Company T |

с. т. • Advanced Environmental Labs Inc

Advanced Environmental Labs 6815 SW Archer Rd. Gainesville, FL 32608

| Client: W.S. I. | Project name: Lake Hancock |
|-----------------------------|---------------------------------|
| Date/Time Rcvd: 3-6-08 8:20 | Log-In request number: 08030 39 |
| Received by: <u>P(</u> | Completed by: PL |

Cooler/Shipping Information:

Courier:

AEL
Client
UPS
Pony Express
FedEx
Blue Streak
ASAP
Other (describe): ______

Type: Z Cooler D Box D Other (describe) Used LT-1 mini temp. F.S.

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

| Cooler ID | c-1 | | | | |
|-----------------|---------------------------------|---------------------------------|---|---|---|
| Temp (°C) | 1.0 | | | | |
| Temp taken from | □ Temp blank ☑ Sample bottle | □ Temp blank □ Sample bottle | Temp blank | Temp blank | Temp blank |
| Tomore | IR gun | IR gun | □ Sample bottle □ IR gun □ Thermometer (enter ID): | □ Sample bottle □ IR gun □ Thermometer (enter ID): | □ Sample bottle □ IR gun □ Thermometer (enter ID): |

Other Information:

Any "NO" responses or discrepancies should be explained in the "Comments" section below.

| CHECKLIST | YES | NO | |
|--|------------|----|---------------------------------------|
| 1. Were custody seals on shipping container(s) intact? | | nu | NA |
| 2. Were custody papers properly included with samples? | × | | |
| 3. Were custody papers properly filled out (ink, signed, match labels)? | | | |
| 4. Did all bottles arrive in good condition (unbroken)? | X | | |
| 5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)? | × | | |
| 6. Did the sample labels agree with the chain of custody? | X | | |
| 7. Were correct bottles used for the tests indicated? | × | | |
| 8. Were proper sample preservation techniques indicated on the label? | X | | |
| 9. Were samples received within holding times? | | | |
| 10 Were all VOA visite chected for 4 | X | | |
| 10. Were all VOA vials checked for the presence of air bubbles? | | | X |
| 11. Were there air bubbles present in the VOA vials? | | | × |
| 12. Were samples in direct contact with wet ice? If "No," check one: NO ICE BLUE ICE Was the cooler term and the second | | | <u> </u> |
| 13. Was the cooler temperature less than 6°C? | <u>×</u> | | · · · · · · · · · · · · · · · · · · · |
| 14. Were sample pHs checked and recorded by Sample Control? | \prec | | |
| NOTE: VOA samples are checked by laboratory analysis. | | | |
| 15. Were the sample containers provided by AEL? | × | | |
| 16. Were samples accepted into the laboratory? | × | | |
| | $ \times $ | | |

Comments:

G:\Login Checklist.doc



6815 SW Archer Road Gainesville, Florida 32608 (352) 377-2349 FAX (352) 395-6639

April 21, 2008

Serial: LAB-080421 40432

Ron Clarke Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609 RE: Lake Hancock Work Order: 0804076

Enclosed are the results of analyses for samples received by the laboratory on April 3, 2008.

All data were determined in accordance with published procedures (EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Rev March 1983; and Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992). Our laboratory is certified by Florida Department of Health (FDH No. E82001).

All results were determined in accordance with NELAP requirements and in accordance with the chain of custody document unless noted in the report case narrative or data report. All data is subject to a degree of uncertainty. For a discussion of laboratory uncertainty, please contact your project manager. This analytical report must be reproduced in its entirety.

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

Sincerely,

an

Karen Daniels Operations Manager kdaniels@aellab.com

Advanced Environmental Laboratories

Page 1 of 14

NELAC requires that any value reported be listed as having less certainty if the result is between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ). The levels shown in the table below are the laboratories MDL and LOQ. Any result reported that falls between these two values should be considered to have less certainty.

| Analyte Ammonia | unit | monou | MDL | LOQ |
|--|-------|-------------------|-------|-----------|
| Chloride | mg/L | EPA 350.1 | 0.009 | 0.0 |
| Chromium +6 | mg/L | EPA 325.2 | 0.12 | |
| COD | ug/L | 3500CrB, EPA 7196 | 4.5 | 7 |
| Conductivity | mg/L | EPA 410.4 | 6.2 | 7 |
| Cyanide | uS/cm | EPA 120.1 | 9.2 | 14 |
| Fluoride (undistilled) | mg/L | 335.2, 9010/9014 | 0.002 | 0.00 |
| Kjeldahl Nitrogen (Alpkem - CuSO4 digestion) | mg/L | EPA 340.2 | 0.02 | 0.0 |
| Nitrite (Spectrophotometer) | mg/L | EPA 351.2 | 0.08 | 0.0 |
| Nitrite/Nitrate | mg/L | EPA 353.3 | 0.004 | 0.00 |
| Organic Carbon | mg/L | EPA 353.2 | 0.003 | 0.00 |
| Ortho Phosphorus, Genesys II | mg/L | EPA 415.2 | 0.7 | 0.00 |
| Dissolved Silica | mg/L | EPA 365.2 | 0.002 | 0.004 |
| Sulfate | mg/L | EPA 370.1 | 0.05 | 0.00- |
| Fotal Carbon | mg/L | EPA 375.4 | 0.33 | |
| Cotal Phosphorus, Spec - Genesys II | mg/L | EPA 415.2 | 0.5 | · |
| otal Phosphorus, Alpkem | mġ/L | EPA 365.3 | 0.006 | 0.006 |
| urbidity | mg/L | EPA 365.1 | 0.002 | 0.006 |
| ilver | NTU | EPA 180.1 | 0.03 | 0.000 |
| in | ug/L | EPA 272.2/7761 | 0.1 | 0.16 |
| luminum | ug/L | EPA 282.2/7871 | 1.8 | 3.12 |
| ntimony | ug/L | EPA 200.7/6010 | 13.9 | <u> </u> |
| rsenic | ug/L | EPA 200.7/6010 | 2.9 | <u>50</u> |
| arium | ug/L | EPA 200.7/6010 | 2.3 | <u>50</u> |
| eryllium | ug/L | EPA 200.7/6010 | 0.2 | |
| Dron | ug/L | EPA 200.7/6010 | 0.10 | 50 |
| idmium | ug/L | EPA 200.7/6010 | 1.5 | 50 |
| alcium | ug/L | EPA 200.7/6010 | 0.4 | 50 |
| romium | mg/L | EPA 200.7/6010 | 0.02 | 50 |
| balt | ug/L | EPA 200.7/6010 | 0.02 | 0.05 |
| pper | ug/L | EPA 200.7/6010 | 0.4 | 50 |
| 1 | ug/L | EPA 200.7/6010 | 0.4 | 50 |
| n ad | ug/L | EPA 200.7/6010 | 0.4 | 50 |
| au | ug/L | EPA 200.7/6010 | 1.9 | |
| inganese | mg/L | EPA 200.7/6010 | | 50 |
| lybdenum | ug/L | EPA 200.7/6010 | 0.014 | 0.05 |
| kel | ug/L | EPA 200.7/6010 | 0.15 | 50 |
| assium | ug/L | EPA 200.7/6010 | 0.7 | 50 |
| enium | | EPA 200.7/6010 | 0.7 | 50 |
| | 1 | EPA 200.7/6010 | 0.006 | 0.05 |
| lium | 2 | EPA 200.7/6010 | 2.4 | 50 |
| ontium | | EPA 200.7/6010 | 0.065 | 0.1 |
| llium | | EPA 200.7/6010 | 0.19 | 50 |
| nium | | EPA 200.7/6010 | 3.6 | 50 |
| adium | | EPA 200.7/6010 | 0.26 | 50 |
| > | | EPA 200.7/6010 | 0.5 | 50 |

Serial: LAB-080421 40433

Page 2 of 14

Advanced 6815 SW Archer Rd Environmental Laboratories, Inc. Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001 Wetland Solutions, Inc. 2809 NW 161 Ct Project: Lake Hancock Gainesville, FL 32609 Project Manager: Ron Clarke **Reported:** 04/21/08 16:04 ANALYTICAL REPORT FOR SAMPLES Sample ID Laboratory ID Matrix Date Sampled W - 1 **Date Received** 0804076-01 Water W - 2 04/02/08 10:25 04/03/08 08:04 0804076-02 Water W - 3 04/02/08 10:29 04/03/08 08:04 0804076-03 Water 04/02/08 10:15 W - 4 04/03/08 08:04 0804076-04 Water W - 5 04/02/08 10:19 04/03/08 08:04 0804076-05 Water C - 1 04/02/08 10:44 04/03/08 08:04 0804076-06 Water 04/02/08 09:54 **C-2** 04/03/08 08:04 0804076-07 Water **DUP - 1** 04/02/08 10:03 04/03/08 08:04 0804076-08 Water 04/02/08 10:26 W-1 04/03/08 08:04 0804076-09 Soil 04/02/08 12:30 W-2 04/03/08 08:04 0804076-10 Soil 04/02/08 12:39 W-3 04/03/08 08:04 0804076-11 Soil W-4 04/02/08 12:50 04/03/08 08:04 0804076-12 Soil 04/02/08 12:59 C-1 04/03/08 08:04 0804076-13 Soil 04/02/08 13:26 C-2 04/03/08 08:04 0804076-14 Soil 04/02/08 13:39 DUP-2 04/03/08 08:04 0804076-15 Soil 04/02/08 13:46

04/03/08 08:04



Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609

Project: Lake Hancock Project Manager: Ron Clarke

Reported: 04/21/08 16:04

REPORT OF RESULTS

W - 1

0804076-01 (Water)

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Anolymod | N 7 4 |
|--|---------|--------------------|-------|----------|---------|----------|----------------|--------------|
| Ammonia, Total EPA 350.1 | 0.048 | 0.009 | | Dilution | | <u> </u> | Analyzed | Notes |
| Nitrate-Nitrite, Total EPA 353.2 | | | mg/L | I. | 8040805 | 04/08/08 | 04/08/08 12:42 | |
| | 0.011 I | 0.003 | mg/L | 1 | 8040702 | 04/07/08 | 04/07/08 15:02 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.372 | 0.002 | mg/L | 1 | 8040312 | 04/03/08 | 04/03/08 14:30 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.40 | 0.00 | - | 1 | 0040312 | | | |
| | 5.40 | 0.08 | mg/L | 1 | 8040812 | 04/08/08 | 04/09/08 00:00 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 5.17 | 0.16 | mg/L | 2 | 8040813 | 04/08/08 | 04/09/08 00:00 | |
| Total Suspended Solids EPA 160.2 - 100mL | 11.0 | 2.0 | mg/L | × 1 | 8040809 | | 04/08/08 12:00 | |

W - 1

0804076-01RE1 (Water)

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--|--------|--------------------|-------|----------|---------|----------|----------------|-------|
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.22 | 0.030 | mg/L | 5 | 8040912 | | 04/11/08 11:00 | Notes |

W - 2

0804076-02 (Water)

| | | | | | • | | | |
|--|---------|--------------------|-------|----------|---------|----------|----------------|-------|
| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.032 I | 0.009 | mg/L | 1 | 8040805 | 04/08/08 | 04/08/08 12:43 | rotes |
| Nitrate-Nitrite, Total EPA 353.2 | 0.008 I | 0.003 | mg/L | 1 | 8040702 | 04/07/08 | 04/07/08 15:03 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.197 | 0.002 | mg/L | · 1 | 8040702 | | 04/03/08 13:03 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.64 | 0.08 | mg/L | 1 | 8040812 | | 04/09/08 00:00 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 4.28 | 0.16 | mg/L | 1 | | 04/08/08 | | |
| Total Suspended Solids EPA 160.2 - 100mL | | | - | 2 | 8040813 | 04/08/08 | 04/09/08 00:00 | |
| | 5.0 I | 2.0 | mg/L | 1 | 8040809 | 04/08/08 | 04/08/08 12:00 | |

W - 2

0804076-02RE1 (Water)

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Nata |
|--|--------|--------------------|-------|----------|---------|----------|----------------|-------|
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.930 | 0.030 | mg/L | 5 | 8040912 | 04/09/08 | 04/11/08 11:00 | Notes |



| | . • | | | | • | r | 3: NELAP Certified | 52.395.663 - FDH #F |
|--|---------|--------------------|--------------|----------|---------|------------|-----------------------|------------------------|
| Wetland Solutions, Inc. | | | | | | | 200 MACU | |
| 2809 NW 161 Ct Gainesville, FL 32609 | | | : Lake Hanco | ck | | | | |
| Samosvine, 1 L 32009 | Pr | oject Manager | : Ron Clarke | | | | | orted: 08 16:04 |
| | | W | 7-3 | | | | | 00 10:04 |
| | | | 03 (Water) | | | | | |
| Analysis | Result | Reporting Limit | | | | | | |
| Ammonia, Total EPA 350.1 | 0.040 | 0.009 | Units | Diluti | | | · · | Notes |
| Nitrate-Nitrite, Total EPA 353.2 | 0.006 I | 0.003 | mg/L | 1 | 804080 | | 8 04/08/08 12:44 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.393 | 0.003 | mg/L | 1 | 8040702 | 2 04/07/08 | 3 04/07/08 15:04 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.82 | | mg/L | 1 | 8040312 | 2 04/03/08 | 3 04/03/08 14:30 | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | | 0.08 | mg/L | .1 | 8040812 | 2 04/08/08 | 8 04/09/08 00:00 | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.87 | 0.08 | mg/L | 1 | 8040813 | 04/08/08 | 04/09/08 00:00 | |
| | 6.0 I | 2.0 | mg/L | 1 | 8040809 | 04/08/08 | 04/08/08 12:00 | |
| | | W- | | | | | | |
| | | 804076-03R | E1 (Water) | ``. | • | | | |
| nalysis | Result | Reporting Limit | Units | Dilution | n Batch | Prepared | | |
| otal Phosphorus, Total EPA 365.3 (Spec) | 1.04 | 0.030 | mg/L | 5 | 8040912 | | | Notes |
| | . • | W - | | 5 | 8040912 | 04/09/08 | 04/11/08 11:00 | • |
| | | w - 0804076-04 | | | • | | • | · · · |
| | | 0004070-04 | (water) | | | | | |
| alysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | A | |
| nmonia, Total EPA 350.1 | 0.038 | 0.009 | mg/L | 1 | 8040805 | | Analyzed | Notes |
| trate-Nitrite, Total EPA 353.2 | 0.009 I | 0.003 | mg/L | 1 | 8040702 | 04/08/08 | 04/08/08 12:45 | |
| uble Reactive Phosphate EPA 365.2 | 0.375 | 0.002 | mg/L | 1 | | 04/07/08 | 04/07/08 15:05 | |
| al Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.32 | 0.08 | mg/L | 1. | 8040312 | 04/03/08 | 04/03/08 14:30 | |
| al Kjeldahl Nitrogen, Total EPA 351.2 | 4.27 | 0.16 | mg/L | 2 | 8040812 | 04/08/08 | 04/09/08 00:00 | |
| al Suspended Solids EPA 160.2 - 100mL | 3.0 I | 2.0 | mg/L | | 8040813 | | 04/09/08 00:00 | |
| | | | - | <u>1</u> | 8040809 | 04/08/08 | 04/08/08 12:00 | |
| | ΩQ | W - 4 | | | | | | |
| | 08 | 04076-04RE | 1 (Water) | | | | | |
| llysis | Result | Reporting Limit | TI | | | | | |
| al Phosphorus, Total EPA 365.3 (Spec) | 0.904 | 0.030 | | Dilution | | Prepared | Analyzed | Notes |
| | 0.207 | 0.030 | mg/L | 5 | 8040912 | 04/09/08 | 04/11/08 11:00 | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | · · | | | • | |
| | | | | | | | | |
| | | | | | | | | |

Serial: LAB-080421 40433

Page 5 of 14



Advanced Environmental Laboratories, Inc.

6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

| 2809 NW 161 Ct Gainesville, FL 32609 | Pr | Project: oject Manager: W 0804076-0 | - 5 | | | | | oorted: 08 16:04 |
|---|--------|--|-------|----------|--------------------|----------------------|----------------------------------|---------------------|
| Analysis Ammonia, Total EPA 350.1 | Result | Reporting Limit | Units | Dilutio | n Batch | Prepared | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.162 | 0.009 | mg/L | 1 | 8040805 | | | Notes |
| Soluble Reactive Phosphate EPA 365.2 | 0.045 | 0.003 | mg/L | 1 | 8040702 | | 04/08/08 12:46 | |
| otable Reactive Filosphate EPA 365.2 otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.014 | 0.002 | mg/L | 1 | 8040312 | | 04/07/08 15:12 | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 4.73 | 0.08 | mg/L | 1 | 8040812 | 04/03/08 04/08/08 | 04/03/08 14:30 | |
| otal Phosphorus, Total EPA 365.3 (Spec) | 20.5 | 0.40 | mg/L | 5 | 8040812 | 04/08/08 | 04/09/08 00:00 04/09/08 00:00 | |
| otal Suspended Solids EPA 160.2 - 100mL | 0.628 | 0.006 | mg/L | 1 | 8040709 | 04/08/08 | 04/09/08 00:00 | |
| | 122 | 2.0 | mg/L | 1 | 8040809 | 04/07/08 | 04/08/08 12:00 | |
| | · · · | C - 1 | | 1. N. | | 04/08/08 | 04/08/08 12:00 | |
| | - | 0804076-06 | | · | | | | |
| nalysis | Result | Reporting Limit | Units | Dilution | Batch | | | |
| nmonia, Total EPA 350.1 | 1.54 | 0.045 | mg/L | 5 | | Prepared | Analyzed | Notes |
| rate-Nitrite, Total EPA 353.2 | 0.017 | 0.003 | mg/L | | 8040805 8040702 | | 04/08/08 13:10 | |
| uble Reactive Phosphate EPA 365.2 | 0.018 | 0.002 | mg/L | | 8040702 8040312 | | 04/07/08 15:14 | |
| al Kjeldahl Nitrogen, Dissolved EPA 351.2 | 6.47 | 0.16 | mg/L | | | | 04/03/08 14:30 | |
| al Kjeldahl Nitrogen, Total EPA 351.2 Il Suspended Solids EPA 160.2 - 100mL | 10.2 | 0.40 | mg/L | · _ | | | 04/09/08 00:00 | |
| | 21.0 | 2.0 | mg/L | - | 0040013 | 04/08/08 | 04/09/08 00:00 | • |

| 0804076-06RE1 | (Water) |
|---------------|---------|
|---------------|---------|

| Analysis | | Reporting | · · | | | | | · · · | 1 |
|--|--------|-----------|-------|----------|---------|----------|----------------|-------|---|
| Total Phosphorus, Total EPA 365.3 (Spec) | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes | ľ |
| | 0.904 | 0.030 | mg/L | 5 | 8040912 | 04/09/08 | 04/11/08 11:00 | Notes | I |



1.5

| Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Pr | | ct: Lake Hanco er: Ron Clarke | | | | | 5000000000000000000000000000000000000 |
|--|-------------------|--------------------|----------------------------------|----------|----------------------|------------|----------------|--|
| | | | C - 2 5-07 (Water) | | | | | |
| Analysis | Result | Reportin Limit | g Units | Dilutio | on Batch | Prepareo | d Analyzed | |
| Ammonia, Total EPA 350.1 | 1.33 | 0.045 | mg/L | 5 | 8040805 | | | Notes |
| Nitrate-Nitrite, Total EPA 353.2 | 0.012 I | 0.003 | mg/L | 1 | 8040702 | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.011 | 0.002 | mg/L | 1 | 8040312 | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 6.55 | 0.16 | mg/L | 2 | 8041004 | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 8.18 | 0.32 | mg/L | 4 | 8041004 | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.548 | 0.006 | mg/L | 1 | 8040709 | | 04/08/08 12:00 | |
| Total Suspended Solids EPA 160.2 - 100mL | 13.0 | 2.0 | mg/L | 1 | 8040709 | | • | |
| | ·. · . | | IP - 1 | | 0040009 | 04/08/08 | 04/08/08 12:00 | |
| | | | 08 (Water) | | | | | • |
| Analysis | Result | Reporting Limit | | | | | | |
| Ammonia, Total EPA 350.1 | 0.042 | 0.009 | Units | Dilution | | Prepared | Analyzed | Notes |
| Nitrate-Nitrite, Total EPA 353.2 | 0.0042 0.004 I | · . | mg/L | 1 | 8040805 | 04/08/08 | 04/08/08 13:01 | |
| oluble Reactive Phosphate EPA 365.2 | 0.377 | 0.003 | · mg/L | 1 | 8040702 | 04/07/08 | 04/07/08 15:17 | |
| otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 3.62 | 0.002 | mg/L | 1 | 8040312 | 04/03/08 | 04/03/08 14:30 | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 3.02 4.79 | 0.08 | mg/L | 1 | 8041004 | 04/10/08 | 04/11/08 00:00 | |
| otal Suspended Solids EPA 160.2 - 100mL | | 0.16 | mg/L | 2 | 8041003 [.] | 04/10/08 | 04/11/08 00:00 | • |
| | 13.0 | 2.0 | mg/L | 1 | 8040809 | 04/08/08 | 04/08/08 12:00 | |
| | <u>.</u> | DUI | | | | | | |
| | 08 | 504076-081 | RE1 (Water) | | | 1 | | |
| nalysis | Result | Reporting Limit | Units | Dilution | Batch | Prenared | Analyzed | Noter |
| otal Phosphorus, Total EPA 365.3 (Spec) | 1.12 | 0.030 | mg/L | 5 | 8040912 | | 04/11/08 11:00 | Notes |
| | | W | | | | | | |
| | | 0804076- | | | • | | | |
| alysis | Result | Reporting Limit | Units | Dilution | Dotol | | | |
| osphorus in Sediment Not NELAC certified | 26900 | 3.2 | mg/kg dry | Dilution | | Prepared | Analyzed | Notes |
| osphorus, Inorganic in Sediment | 22600 | 1850 | mg/kg dry | | | | 04/08/08 16:09 | V |
| ids, Dry Weight | 54.2 | 0.1 | % by Weight | | | | 04/18/08 16:35 | |
| | | ~ | so by weight | 1 | 8040406 | 04/04/08 (| 04/04/08 12:00 | |

Serial: LAB-080421 40433

Advanced Environmental Laboratories, Inc.

Wetland Solutions, Inc.

6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

| 2809 NW 161 Ct Gainesville, FL 32609 | Pr | | et: Lake Hance r: Ron Clarke | | | | | ported: /08 16:04 |
|---|------------------------|--------------------|---------------------------------------|----------------|-------------------------------|----------------------------------|--|-----------------------------|
| | | | W-2 6-10 (Soil) | | | | | |
| Analysis | Result | Reporting Limit | ; Units | Dilutio | on Batch | D | | |
| Phosphorus in Sediment Not NELAC certified Phosphorus, Inorganic in Sediment Solids, Dry Weight | 25700 21300 48.3 | 3.4 2070 0.1 | mg/kg dry mg/kg dry % by Weigh | 1 1000 | 804032 804170 | 1 04/03/08 9 04/17/08 | 8 04/08/08 16:19 8 04/18/08 16:35 | Notes V |
| | · · · · · · | | V-3 5-11 (Soil) | . 1 | 804040 | 5 04/04/08 | 3 04/04/08 12:00 | |
| Analysis Phosphorus in Sediment Not NELAC certified | Result | Reporting Limit | Units | Dilution | n` Batch | Prepared | Analyzed | |
| Phosphorus, Inorganic in Sediment Solids, Dry Weight | 34100 16300 31.0 | 5.8 3230 0.1 | mg/kg dry mg/kg dry % by Weight | 1 1000 | 8040321 8041709 8040406 | 04/03/08 04/17/08 | | V |
| | | W 0804076- | | | | | | • |
| hosphorus in Sediment Not NELAC certified | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Net |
| hosphorus, Inorganic in Sediment olids, Dry Weight | 25700 21700 54.4 | 3.3 1840 0.1 | mg/kg dry mg/kg dry % by Weight | 1 1000 1 | 8040321 8041709 8040406 | 04/03/08 04/17/08 04/04/08 | 04/08/08 17:48 04/18/08 16:35 04/04/08 12:00 | Notes V |
| | | C-: 0804076-1 | | | | | | |
| alysis osphorus in Sediment Not NELAC certified | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| osphorus in Sediment Not NELAC certified osphorus, Inorganic in Sediment lids, Dry Weight | 21600 20900 51.7 | 2.8 1930 0.1 | mg/kg dry mg/kg dry % by Weight | 1 1000 | 8040321 8041709 8040406 | 04/03/08 04/17/08 | 04/08/08 17:58 04/18/08 16:35 04/04/08 12:00 | Notes V |

Advanced Environmental Laboratories, Inc. . .

6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

| Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Pro | | : Lake Hancoc : Ron Clarke | ж | | | | oorted: 08 16:04 |
|---|------------------------|--------------------|---------------------------------------|-----------|-------------------------------|----------------------------------|--|---------------------|
| | · · | | C-2 -14 (Soil) | | | | | |
| Analysis Phosphorus in Sediment Not NELAC certified | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Net |
| Phosphorus in Sediment Not NELAC certified Phosphorus, Inorganic in Sediment Solids, Dry Weight | 31700 25400 42.6 | 3.8 2350 0.1 | mg/kg dry mg/kg dry % by Weight | 1 1000 | 8040321 8041709 8040406 | 04/03/08 04/17/08 04/04/08 | 04/08/08 18:07 04/18/08 16:35 04/04/08 12:00 | Notes V |
| | | DU) 0804076- | | | | | | • |
| nalysis hosphorus in Sediment Not NELAC certified | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Net |
| hosphorus, Inorganic in Sediment Dids, Dry Weight | 21900 17000 58.3 | 3.0 1720 0.1 | mg/kg dry mg/kg dry % by Weight | 1 1000 | 8040321 8041709 | 04/03/08 04/17/08 | 04/08/08 18:17 04/18/08 16:35 | Notes V |

% by Weight

1

8040406 04/04/08 04/04/08 12:00

Serial: LAB-080421 40433



Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609

Project: Lake Hancock

Project Manager: Ron Clarke

Reported: 04/21/08 16:04

QUALITY CONTROL FOR SAMPLES

Solids - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--|--|---|----------------|------------------|---------------------------------------|----------------|-----|--------------|----------|
| Batch 8040406 = Solids, Dry Weight | | | | | | | | | | |
| Blank (8040406-BLK1) | | | | | | | | | | |
| Solids, Dry Weight | 0.1 U | 0.1 | % by Weight | | | · · · · · · · · · · · · · · · · · · · | | | | |
| Batch 8040809 = Total Suspended Sol | ids EPA 16 | 0.2 - 100n | ıL | | | | | | | |
| Blank (8040809-BLK1) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | · · | | | | <u> </u> |
| Duplicate (8040809-DUP1) Sour | ce: 0804076- | .01 | | | | • | | | | • . |
| otal Suspended Solids EPA 160.2 - 100mL | 15.0 | 2.0 | mg/L | | 11.0 | | | 31 | 20 | D DI |
| eference (8040809-SRM1) | | | - | | | | | 51 | 20 | D-RN |
| otal Suspended Solids EPA 160.2 - 100mL | 60.0 | | mg/L | 51.0 | | 118 | 00.100 | | | |
| | | | | 51.0 | | 118 | 80-120 | | • | |
| | | Nutrien | ts - Quality | y Contr | rol | | | | | |
| • | | | | | | | | | | |
| nalyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| | | Limit | Units | - | | %REC | %REC Limits | RPD | RPD Limit | Notes |
| atch 8040312 = Soluble Reactive Phos | | Limit | Units | - | | %REC | | RPD | | Notes |
| atch 8040312 = Soluble Reactive Phoe lank (8040312-BLK1) | | Limit 365.2 | | - | | %REC | | RPD | | Notes |
| atch 8040312 = Soluble Reactive Phose ank (8040312-BLK1) luble Reactive Phosphate EPA 365.2 | o.002 U | Limit 365.2 | Units mg/L | - | | %REC | | RPD | | Notes |
| atch 8040312 = Soluble Reactive Phoe lank (8040312-BLK1) luble Reactive Phosphate EPA 365.2 atrix Spike (8040312-MS2) Source | sphate EPA | Limit 365.2 | mg/L | Level | Result | | Limits | RPD | | Notes |
| atch 8040312 = Soluble Reactive Phoselank (8040312-BLK1)uble Reactive Phosphate EPA 365.2atrix Spike (8040312-MS2)luble Reactive Phosphate EPA 365.2 | 0.002 U 0.002 U | Limit 365.2 | | - | | %REC | | RPD | | Notes |
| atch 8040312 = Soluble Reactive Phose lank (8040312-BLK1) luble Reactive Phosphate EPA 365.2 atrix Spike (8040312-MS2) Source luble Reactive Phosphate EPA 365.2 luble Reactive Phosphate EPA 365.2 strike (8040312-SRM1) | 0.002 U 0.002 U | Limit 365.2 | mg/L mg/L | Level 0.250 | Result | 103 | Limits | RPD | | Notes |
| atch 8040312 = Soluble Reactive Phose lank (8040312-BLK1) luble Reactive Phosphate EPA 365.2 atrix Spike (8040312-MS2) Source luble Reactive Phosphate EPA 365.2 efference (8040312-SRM1) luble Reactive Phosphate EPA 365.2 | 0.002 U 0.002 U e: 0804076-0 0.620 0.698 | Limit . 365.2 0.002 1 | mg/L mg/L mg/L | Level | Result | | Limits | RPD | | Notes |
| atch 8040312 = Soluble Reactive Phose lank (8040312-BLK1) luble Reactive Phosphate EPA 365.2 atrix Spike (8040312-MS2) Source luble Reactive Phosphate EPA 365.2 luble Reactive Phosphate EPA 365.2 efference (8040312-SRM1) luble Reactive Phosphate EPA 365.2 efference (8040321 = Phosphorus in Sedime | 0.002 U 0.002 U e: 0804076-0 0.620 0.698 | Limit . 365.2 0.002 1 | mg/L mg/L mg/L | Level 0.250 | Result | 103 | Limits | RPD | | Notes |
| atch 8040312 = Soluble Reactive Phose lank (8040312-BLK1) oluble Reactive Phosphate EPA 365.2 atrix Spike (8040312-MS2) Source luble Reactive Phosphate EPA 365.2 eference (8040312-SRM1) luble Reactive Phosphate EPA 365.2 atch 8040321 = Phosphorus in Sedime ank (8040321-BLK1) | 0.002 U 0.002 U e: 0804076-0 0.620 0.698 nt Not NEI | Limit . 365.2 0.002 1 | mg/L mg/L mg/L | Level 0.250 | Result | 103 | Limits | RPD | | Notes |
| atch 8040312 = Soluble Reactive Phose lank (8040312-BLK1) luble Reactive Phosphate EPA 365.2 atrix Spike (8040312-MS2) Source luble Reactive Phosphate EPA 365.2 buble Reactive Phosphate EPA 365.2 efference (8040312-SRM1) huble Reactive Phosphate EPA 365.2 efference (8040321 = Phosphorus in Sedime ank (8040321=BLK1) psphorus in Sediment Not NELAC certified | 0.002 U 0.002 U e: 0804076-0 0.620 0.698 | Limit .365.2 0.002 1 .AC certif | mg/L mg/L mg/L | Level 0.250 | Result | 103 | Limits | RPD | | V |
| atch 8040312 = Soluble Reactive Phose atch 8040312-BLK1) luble Reactive Phosphate EPA 365.2 atrix Spike (8040312-MS2) Source luble Reactive Phosphate EPA 365.2 efference (8040312-SRM1) luble Reactive Phosphate EPA 365.2 atch 8040321 = Phosphorus in Sedime ank (8040321-BLK1) osphorus in Sediment Not NELAC certified plicate (8040321-DUP1) Source | 0.002 U 0.002 U e: 0804076-0 0.620 0.698 nt Not NEI | Limit .365.2 0.002 1 .AC certit | mg/L mg/L mg/L fied | Level 0.250 | Result | 103 | Limits | RPD | | |
| atch 8040312 = Soluble Reactive Phose lank (8040312-BLK1) huble Reactive Phosphate EPA 365.2 atrix Spike (8040312-MS2) Source huble Reactive Phosphate EPA 365.2 efference (8040312-SRM1) huble Reactive Phosphate EPA 365.2 efference (8040321 = Phosphorus in Sedime ank (8040321 = Phosphorus in Sedime ank (8040321 = Durper | 0.002 U 0.002 U e: 0804076-0 0.620 0.698 nt Not NEI 3.5 | Limit .365.2 0.002 1 .AC certif 1.0 | mg/L mg/L mg/L fied | Level 0.250 | Result | 103 | Limits | | Limit | V |
| atch 8040312 = Soluble Reactive Phose atch 8040312-BLK1) luble Reactive Phosphate EPA 365.2 atrix Spike (8040312-MS2) Source luble Reactive Phosphate EPA 365.2 efference (8040312-SRM1) luble Reactive Phosphate EPA 365.2 atch 8040321 = Phosphorus in Sedime ank (8040321-BLK1) osphorus in Sediment Not NELAC certified plicate (8040321-DUP1) Source | Sphate EPA 0.002 U e: 0804076-0 0.620 0.698 nt Not NEI 3.5 : 0804076-10 | Limit .365.2 0.002 1 .AC certif 1.0 | mg/L mg/L mg/L fied mg/kg wet | Level 0.250 | Result 0.363 | 103 | Limits | RPD | | |

Serial: LAB-080421 40433



Migrosof Environmental Laboratories, Inc.

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Project: Lake Hancock

Project Manager: Ron Clarke

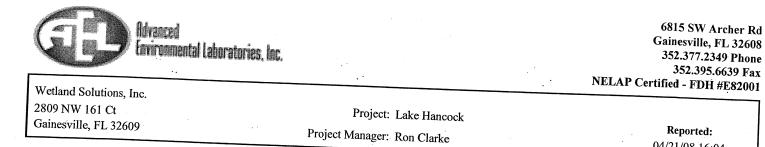
Reported: 04/21/08 16:04

Nutrients - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | | | REC | %REC | | RPD | |
|---|---------------------------|--------------------|-------|----------------|-------|---------|------|--------|-----|-------|------|
| Batch 8040702 = Nitrate-Nitrite | , Total EPA 353. | 2 | | | 1(1) | ount 70 | OREC | Limits | RPD | Limit | Note |
| Blank (8040702-BLK1) | | | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.003 U | 0.003 | mg/L | | | | | | | | |
| Duplicate (8040702-DUP3) | | | mg/L | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | Source: 0804076- 0.048 | | | | | | | | | | |
| Matrix Spike (8040702-MS3) | | 0.003 | mg/L | | 0.04 | 5 | | | 6 | 20 | |
| Nitrate-Nitrite, Total EPA 353.2 | Source: 0804076- | 06 | | | | | | | | 20 | |
| | 0.444 | 0.003 | mg/L | 0.400 | 0.01 | 7 1 | 07 | 00.110 | | | - |
| Reference (8040702-SRM1) | • | • • • •. | | | v.01 | / | 07 | 90-110 | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 1.47 | 0.003 | | | | | · · | | x | • | • |
| Reference (8040702-SRM2) | | 0.003 | mg/L | 1.38 | | 10 | 07 | 90-110 | | | |
| Nitrate-Nitrite, Total EPA 353.2 | | | | | | | | | | | |
| | 1.02 | 0.003 | mg/L | 1.00 | - | 10 | 12 | 0-200 | | | |
| Batch 8040709 = Total Phosphoru | 18. Total FDA 26 | 5 2 (G) | | | | 10 | 12 | 0-200 | | | · · |
| Blank (8040709-BLK1) | 15, 10tal El A 50 | 5.5 (Spec) | | | | | | | | - | |
| Total Phosphorus, Total EPA 365.3 (Spec) | | | | | | | | | | | |
| | 0.006 U | 0.006 | mg/L | | | | | | | | |
| Blank (8040709-BLK2) | | | | | | | | | | | |
| otal Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | | • |
| lank (8040709-BLK3) | | | mg/L | | | | | | | | |
| otal Phosphorus, Total EPA 365.3 (Spec) | 0.006.11 | | | | | | | | | | |
| | 0.006 U | 0.006 | mg/L | | | | | | | | |
| eference (8040709-SRM1) | | | | | | | • | | | | |
| otal Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | 0.108 | | | | | | | |
| atch 8040805 = Ammonia, Total I | 704 350 4 | | -0- | 0.108 | | | | 0-200 | | | |
| ant (8040007 DI Lich | LPA 350.1 | | | | | | | | | | |
| ank (8040805-BLK1) nmonia, Total EPA 350.1 | | | | | | | | | | | |
| | 0.009 U | 0.009 | mg/L | | | | | | | • • | |
| 1plicate (8040805-DUP3) Second | ource: 0804076-06 | | - | | | | | | | | |
| nmonia, Total EPA 350.1 | | 0.045 | ~ | | | | | | | | |
| atrix Spike (8040805-MS3) | | 0.045 | mg/L | ** *** | 1.54 | | | | 0.7 | 20 | |
| umonia, Total EPA 350.1 | ource: 0804076-08 | | | | | • | | ÷ | | | • |
| • | 0.435 | 0.009 | mg/L | 0.400 | 0.042 | 98 | | 120 | | | • |
| ference (8040805-SRM1) | | | - | | 0.012 | 70 | 80 |)-120 | | | |
| monia, Total EPA 350.1 | 0.571 (| 0.009 | | | | | * | | | | · - |
| tch 8040812 = Total Kjeldahl Niti | | | mg/L | 0.580 | | . 98 | 90 | -110 | | | |
| ICH 0040812 = Total Kieldahl Nite | togan Dial 1 | | | | | | | | | • | |

Serial: LAB-080421 40433

Page 11 of 14



Reported: 04/21/08 16:04

352.395.6639 Fax

i.

Nutrients - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | DDD | RPD | |
|---|---|--|------------------------------|----------------|------------------|---------|----------------|-------|----------------|------|
| Batch 8040812 = Total Kjeldahl Nitrog | ten Dissel | Internal EDA | | | result | /orec | Limits | RPD | Limit | Note |
| Dialik (0040012-DLKI) | 5cn, D15501 | ived EPA : | 351.2 | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| LCS (8040812-BS1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.01 | 0.08 | mg/L | 2.00 | | | | | | |
| Duplicate (8040812-DUP1) Source | | | | 2.00 | | 100 | 90-110 | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | e: 0804076- 3.42 | - 01 0.08 | mg/L | | 3.40 | | | - | | |
| Matrix Spike (8040812-MS2) Source | . 000 405 6 | | | | J.40 | · · · · | | 0.6 | 20 | χ. |
| Fotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | e: 0804076- 4.63 | 0.08 | mg/L | 1.00 | 3.64 | 99 | 00.110 | | • | |
| Batch 8040813 = Total Kjeldahl Nitroge | m T. (1 * | | - | | 2.07 | 77 | 90-110 | | | |
| Elant (9040912 DI Ve | u, Iotal k | CPA 351.2 | | | | | | | - | |
| Blank (8040813-BLK1) | | | ••• • | | | | | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| CS (8040813-BS1) | | | | | | | • | | | |
| otal Kjeldahl Nitrogen, Total EPA 351.2 | 2.16 | 0.08 | mg/L | 2.00 | | 108 | 90-110 | | | |
| atch 8040912 = Total Phosphorus, Tota | EPA 36 | 5 2 (Similar) | | | | | 50 110 | | | |
| lank (8040912-BLK1) | <u>. 117130</u> , | 5.5 (Spec) | | | | | | | | · |
| otal Phosphorus, Total EPA 365.3 (Spec) | | | | | | | | | | |
| 100photas, Total El A 505.5 (Spec) | 0.006 U | 0.006 | mg/L | | | | r | | | |
| uplicate (8040912-DUP5) | | | mg/L | | | | • | - | | |
| uplicate (8040912-DUP5) | 0804076-0 | IRE1 | | | | | * | | | |
| uplicate (8040912-DUP5) Source: tal Phosphorus, Total EPA 365.3 (Spec) | 0804076-0 1.21 | 1RE1 0.030 | mg/L mg/L | | 1.22 | | | 0.8 | 20 | |
| uplicate (8040912-DUP5) Source: tal Phosphorus, Total EPA 365.3 (Spec) uplicate (8040912-DUP6) Source: | 0804076-0 1.21 0804076-02 | 1RE1 0.030 | | | 1.22 | | | 0.8 | 20 | |
| uplicate (8040912-DUP5)Source:tal Phosphorus, Total EPA 365.3 (Spec)Iplicate (8040912-DUP6)Source:uplicate (8040912-DUP6)Source:tal Phosphorus, Total EPA 365.3 (Spec) | 0804076-0 1.21 | 1RE1 0.030 | | | 1.22 | | | | - | |
| uplicate (8040912-DUP5)Source:tal Phosphorus, Total EPA 365.3 (Spec)uplicate (8040912-DUP6)Source:tal Phosphorus, Total EPA 365.3 (Spec)source:uplicate (8040912-DUP7)Source: | 0804076-0 1.21 0804076-02 0.917 | IRE1 0.030 PRE1 0.030 | mg/L | | | | | 0.8 | 20 20 | |
| uplicate (8040912-DUP5)Source:tal Phosphorus, Total EPA 365.3 (Spec)uplicate (8040912-DUP6)Source:tal Phosphorus, Total EPA 365.3 (Spec)source:uplicate (8040012 DUP6)Source: | 0804076-0 1.21 0804076-02 | 1RE1 0.030 2RE1 0.030 3RE1 | mg/L mg/L | | 0.930 | | | | - | |
| uplicate (8040912-DUP5)Source:tal Phosphorus, Total EPA 365.3 (Spec)uplicate (8040912-DUP6)Source:tal Phosphorus, Total EPA 365.3 (Spec)source:uplicate (8040912-DUP7)uplicate (8040912-DUP7)Source:source:tal Phosphorus, Total EPA 365.3 (Spec)source:uplicate (8040912-DUP7) | 0804076-0 1.21 0804076-02 0.917 0804076-03 0.996 | IRE1 0.030 PRE1 0.030 BRE1 0.030 | mg/L | | | | | | - | |
| uplicate (8040912-DUP5)Source:tal Phosphorus, Total EPA 365.3 (Spec)uplicate (8040912-DUP6)Source:tal Phosphorus, Total EPA 365.3 (Spec)source:source:uplicate (8040912-DUP7)Source:source:tal Phosphorus, Total EPA 365.3 (Spec)source:source:uplicate (8040912-DUP7)Source:source:tal Phosphorus, Total EPA 365.3 (Spec)source:source:uplicate (8040912-DUP8)Source:source: | 0804076-0 1.21 0.917 0.917 0.904076-03 0.996 0.996 0.996-04 | 1RE1 0.030 2RE1 0.030 3RE1 0.030 RE1 | mg/L mg/L mg/L | - | 0.930 | | | 1 | 20 | |
| uplicate (8040912-DUP5)Source:tal Phosphorus, Total EPA 365.3 (Spec)Iplicate (8040912-DUP6)Source:uplicate (8040912-DUP7)Source:Source:uplicate (8040912-DUP7)Source:Iplicate (8040912-DUP7)uplicate (8040912-DUP7)Source:Source:uplicate (8040912-DUP7)Source:Iplicate (8040912-DUP7)uplicate (8040912-DUP8)Source:Source:uplicate (8040912-DUP8)Source:Iplicate (8040912-DUP8) | 0804076-0 1.21 0804076-02 0.917 0804076-03 0.996 | IRE1 0.030 PRE1 0.030 BRE1 0.030 | mg/L mg/L | - | 0.930 | | | 1 | 20 | |
| uplicate (8040912-DUP5)Source:tal Phosphorus, Total EPA 365.3 (Spec)uplicate (8040912-DUP6)Source:uplicate (8040912-DUP7)Source:source:tal Phosphorus, Total EPA 365.3 (Spec)source:source:uplicate (8040912-DUP7)Source:source:al Phosphorus, Total EPA 365.3 (Spec)source:source:uplicate (8040912-DUP7)Source:source:uplicate (8040912-DUP7)Source:source:uplicate (8040912-DUP8)Source:source:al Phosphorus, Total EPA 365.3 (Spec)source:source:uplicate (8040912-DUP8)Source:source:uplicate (8040912-DUP9)Source:source: | 0804076-0 1.21 0.917 0.917 0.996 0.996 0.997 0.917 | IRE1 0.030 PRE1 0.030 BRE1 0.030 RE1 0.030 | mg/L mg/L mg/L | - | 0.930 | | | 1 | 20 | |
| uplicate (8040912-DUP5)Source:tal Phosphorus, Total EPA 365.3 (Spec)uplicate (8040912-DUP6)Source:uplicate (8040912-DUP6)Source:source:uplicate (8040912-DUP7)Source:source:uplicate (8040912-DUP7)Source:source:uplicate (8040912-DUP7)Source:source:uplicate (8040912-DUP7)Source:source:uplicate (8040912-DUP7)Source:source:uplicate (8040912-DUP8)Source:source:uplicate (8040912-DUP8)Source: | 0804076-01 1.21 0.917 0.917 0.996 0.996 0.996 0.996 0.917 0.917 0.917 0.917 | IRE1 0.030 PRE1 0.030 BRE1 0.030 RE1 0.030 | mg/L mg/L mg/L mg/L | - | 0.930 | | | 1 4 1 | 20 | |
| uplicate (8040912-DUP5)Source:tal Phosphorus, Total EPA 365.3 (Spec)Iplicate (8040912-DUP6)Source:tal Phosphorus, Total EPA 365.3 (Spec)Source:Iplicate (8040912-DUP7)uplicate (8040912-DUP7)Source:Source:plicate (8040912-DUP8)Source:Iplicate (8040912-DUP8)al Phosphorus, Total EPA 365.3 (Spec)Source:Iplicate (8040912-DUP8)plicate (8040912-DUP8)Source:Source:al Phosphorus, Total EPA 365.3 (Spec)Source:Iplicate (8040912-DUP9)plicate (8040912-DUP9)Source:Source:al Phosphorus, Total EPA 365.3 (Spec)Source:Iplicate (8040912-DUP9)Source:Source:Source:al Phosphorus, Total EPA 365.3 (Spec)Source:Iplicate (8040912-DUP9)Source:Source | 0804076-0 1.21 0.917 0.917 0.996 0.996 0.996 0.917 0.917 0.917 0.917 0.917 0.917 0.917 | IRE1 0.030 PRE1 0.030 BRE1 0.030 RE1 0.030 RE1 0.030 RE1 0.030 | mg/L mg/L mg/L | - | 0.930 | | | 1 | 20 | |
| uplicate (8040912-DUP5)Source:tal Phosphorus, Total EPA 365.3 (Spec)uplicate (8040912-DUP6)Source:uplicate (8040912-DUP7)Source:source:uplicate (8040912-DUP7)Source:uplicate (8040912-DUP7)al Phosphorus, Total EPA 365.3 (Spec)source:uplicate (8040912-DUP8)plicate (8040912-DUP8)Source:uplicate (8040912-DUP8)al Phosphorus, Total EPA 365.3 (Spec)source:uplicate (8040912-DUP8)plicate (8040912-DUP9)Source:uplicate (0040012-DUP9) | 0804076-0 1.21 0.917 0.917 0.996 0.996 0.996 0.997 0.917 | 1RE1 0.030 2RE1 0.030 3RE1 0.030 RE1 0.030 RE1 0.030 RE1 0.030 | mg/L mg/L mg/L mg/L | - (| 0.930 | | | 1 4 1 | 20 20 20 | |

Serial: LAB-080421 40433

Г



Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609

Г

Project: Lake Hancock

Project Manager: Ron Clarke

Reported: 04/21/08 16:04

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|---|--------------------|-----------|----------------|------------------|---|----------------|-----|--------------|----------|
| Batch 8040912 = Total Phosphorus, | Total EPA 3 | 65 3 (Snee | ۰ ۱ | | | | | | Danit | INDIES |
| Matrix Sails (00 10010 2 50 1) | | | ·) | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | irce: 0804076 | | | | | | | | | |
| | 2.29 | 0.031 | mg/L | 1.33 | 1.04 | 94 | 80-120 | | | • • • • |
| Reference (8040912-SRM1) | | | e 1 | | | | 00 120 | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.096 | 0.007 | | | | 1.1.1 | | | | |
| | | 0.006 | mg/L | 0.108 | | 89 | 0-200 | 7 | | |
| Batch 8041003 = Total Kjeldahl Nitro | ogen. Total 1 | EPA 351 2 | | | | - | | | | |
| Blank (8041003-BLK1) | Bondy I otul I | A A 331.4 | | | | · · · | - | | | |
| Total Kieldahl Nitrogen Total ED to and | | . • • | `. · | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | • | |
| Blank (8041003-BLK2) | | | U | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | | | | | | | | | | |
| | 0.08 U | 0.08 | mg/L | · · · · | | | | | | |
| LCS (8041003-BS1) | | | .* | • | | | | | | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 2.04 | | | | | | | | | 1997 - A |
| | 2.04 | 0.08 | mg/L | 2.00 | | 102 | 90-110 | | | |
| LCS (8041003-BS2) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 1.90 | 0.08 | <i>#</i> | - | | | | | | |
| | | | mg/L | 2.00 | | 95 | 90-110 | | | |
| Batch 8041004 = Total Kjeldahl Nitro | gen. Dissolve | d EPA 35 | 19 . | • * | | · · | | | | |
| Blank (8041004-BLK1) | <u>, , , , , , , , , , , , , , , , , , , </u> | u LIA JJ | 1.4 | | · | | | | | |
| Fotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | | | | | | | | | | |
| otar Kjeldani Nitrogen, Dissolved EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| LCS (8041004-BS1) | | | | | | | | | | |
| otal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.00 | | | | | анан алын алын алын алын алын алын алын | | | | |
| 5 | 1.99 | 0.08 | mg/L | 2.00 | | 100 | 90-110 | | | |
| atch 8041709 = Phosphorus, Inorgani | a in C. It | | | , | | | | | | |
| | c in Seaimer | <u>nt</u> | | | | · · · · | · | | | |
| lank (8041709-BLK1) | | | | | | | | | | |
| hosphorus, Inorganic in Sediment | 1.0 U | 1.0 n | ng/kg wet | | | | | | | |
| uplicate (8041709-DUP1) Source | | - | -Burg wer | | | | | | | , |
| Aphenic (0041/09-DUPI) Source | e: 0804076-09 | 1 | | | | | | | | |
| osphorus, Inorganic in Sediment | 27200 | 1850 n | ng/kg dry |) | 2600 | | | | | |
| | | | | 2 | 2000 | - · · · · · | | 18 | 20 | - |

| G | Advanced Environmental Laboratories, Inc. | | NELA | 6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax P Certified - FDH #E82001 |
|--------|---|---|---------------------------------|---|
| 2809 N | l Solutions, Inc. W 161 Ct ille, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | | Reported: 04/21/08 16:04 |
| | | NOTES AND DEFINITIONS | | |
| v | Analyte present in blank and samples. | | | |
| D-RNG | The difference of the concentrations of the sample aboratory that when the range is at this level the | ple and its duplicate is low in comparison to the MD e sample is not rerun and the data is considered acce | DL. It is the general policy of | the |
| CUST | bad dup RE extr | | | • |
| U | Analyte not detected at or above the method det | ection limit | | |
| Ι | Analyte not detected above the practical quantit | | | |
| NR | Not Reported | | | |
| dry | Sample results reported on a dry weight basis | | | |
| RPD | Relative Percent Difference | | | |

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| | PROJECT | Lake Hancock Vegetation Study | on Study | | | | 0 | HAI | N-OF | CHAIN-OF-CUSTODY FORM |
|------------------------------------|--------------------------------|---|------------------|-------|--------------|---------|-----------------|-----------|--------------|--|
| | PHONE: | (386) 462-9286 | | | | | N S | Wetland | ind | 92 OKOSOCAN |
| | FAX: | (386) 462-3196 | | | | | S. | 5 | tions, | |
| | E-MAIL: | ckeller@wetlandsolutionsinc.com | inc.com | | 1 | | Finc. | ဂု | | ▲ . |
| | ADDRESS: | 2809 NW 161 Court, Gainesville, FL 32609 | nesville, FL 3 | 2609 | Τ | ΔΝΔΙ | ANAI VSIS REDII | | | LAB: Advanced Environmental |
| TURN AROUND TIME | UND TIME: | X Standard | | Rush | | Ū | | VATIV | л с с | |
| Special Inst | Special Instructions/Comments: | iments: | | | | | | | | PRESERVATIVE KEY |
| No samples | No samples filtered in field | | `. | | | |)issolved | | | 0. NONE 3. H2SO4 1. HCL 4. Sodium Thiosulfate 2. NHO3 5. Other |
| Matrix: SW (Su | urface Water), (| Matrix: SW (Surface Water), GW (Ground Water), S (Soil), P (Periphyton) | , P (Periphyton) | | | 103 | FKN | | P | |
| DATE | TIME | SAMPLE I. D. | MATRIX | GRAB/ | rss | NH3 / I | 'KN / 1 | P | ortho-l | |
| 4/2/2008 | 1025 | W-1 | SW | GRAB | × | × | × | × | × | |
| 4/2/2008 | 1029 | W-2 | WS | GRAB | × | × | × | × | × | Lot |
| 4/2/2008 | 1015 | W-3 | SW | GRAB | × | × | × | × | × | -0.7 |
| 4/2/2008 | 1019 | W-4 | WS | GRAB | × | × | × | × | × | -04 |
| 4/2/2008 | 1044 | W-5 | SM . | GRAB | × | × | × | × | × | -20- |
| 4/2/2008 | 4560 | C-1 | SW | GRAB | × | × | × | × | × | 26 |
| 0002/2/1 | 5 001 | C-2 | WS | GRAB | × | × | × | × | × | 60- |
| 4/2/2008 | 1230 | W-1 | SW . | GRAB | × | × | × | × | × | 30- |
| 4/2/2008 | 1239 | W-2 | s o | | | | | < > | : × - | 60 |
| 4/2/2008 | 1250 | W-3 | S | COMP | | | | < | < > | 20 |
| 4/2/2008 | 1259 | W-4 | S | COMP | | | | × ; | <)> | |
| 4/2/2008 | 1326 | C-1 | S | COMP | | | | × > -+ | < | 13 |
| 4/2/2008 | 1339 | C-2 | S | COMP | | | | צ; | × > - | |
| 4/2/2008 | 1346 | DUP-2 | S | COMP | | | \downarrow | < : - | <); - | -18 |
| RELI | RELINQUISHED BY: | | RECEIVED BY: | | | REL | RELINQUISHED | | BY: | |
| Signature (| Ren | Signature | | | Signature | | | | | יובטרועבט סד. |
| Henry Brennan Printed Name | | Printed Name | an tire | • | Printed Name | Đ | - | | | 2 |
| Wetland Solutions, Inc. Company | ions, Inc. | Company | | | Company | | | | | |
| <i>4・3・08</i> Date / Time | 2080 | イー 3 - | 4080 | | Data / Timo | | | | | |
| • | | 3 | 0/ | | | | | | | Juate / Time |
| | | | | | | - | | | | |

| Advanced Environmental Labs Inc | | Advanced Environmental Labs 6815 SW Archer Rd. Gainesville, FL 32608 |
|--|-------------------|--|
| Client: <u>Wetland</u> Solitions | Project name: _ | Lake Hancock |
| Date/Time Rcvd: <u>4-3-08/0804</u> Log-In Received by: <u>P.L.</u> | request number: _ | 0804096 |
| <u>Cooler/Shipping Information:</u> | Completed by: _ | OSIF |

Courier:
AEL Client UPS Pony Express FedEx Blue Streak ASAP Other (describe):

Type: Cooler D Box D Other (describe) <u>Used LT-1 mini temp. F.S.</u>

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

| Cooler ID C-/ | | | T | |
|-------------------------------|---|---|-----------------------------|---|
| Temp (°C) 5.8℃ | | | | |
| Temp taken from Sample bottle | Temp blank Sample hettle | . Temp blank | Temp blank | Temp blank |
| Temp measured with | □ Sample bottle □ IR gun □ Thermometer (enter ID): | □ Sample bottle □ IR gun □ Thermometer (enter ID): | □ Sample bottle □ IR gun | □ Sample bottle □ IR gun □ Thermometer (enter |
| | | <i></i> | ID): | ID): |

Other Information:

Any "NO" responses or discrepancies should be explained in the "Comments" section below.

| CHECKLIST | | | |
|--|-------------------|----|-----------------------|
| 1. Were custody seals on shipping container(s) integer | YES | NO | NA |
| 2. Were custody papers properly included with samples? | | | X |
| 3. Were custody papers properly filled and (1) | ~ | | |
| Were custody papers properly filled out (ink, signed, match labels)? Did all bottles arrive in good even like the second se | | | |
| = 14 wit oottics affive in 2000 condition (unbroken)? | | | |
| Were all bottle labels complete (sample #, date, signed, analysis, preservatives)? Did the sample labels agree with the 1 in 20 million of the sample labels agree with the 1 million of the sample sample labels agree with the 1 million of the sample sample | $- \times$ | | |
| | \rightarrow | | |
| 7. were correct bottles used for the tests indicated? | | | |
| 8. Were proper sample preservation techniques indicated on the label? | $\mathbf{\Sigma}$ | | |
| 9. Were samples received within holding times? | X | · | |
| 10. Were all VOA viale checked within fording times? | | | |
| 10. Were all VOA vials checked for the presence of air bubbles? | | | |
| 11. Were there air bubbles present in the VOA vials? | | | \leq |
| 12. Were samples in direct contact with wet ice? If "No" about a Table 200 | 101 | | $\boldsymbol{\times}$ |
| | | | |
| 14. Were sample pHs checked and recorded by Some Is Control to | | | |
| NOTE: VOA samples are checked by laboratory analysis. | | | · · · · |
| 15. Were the sample containers provided by AEL? | $ \times $ | | |
| 16 Were samples error (11) | 1' X+ | | |
| 16. Were samples accepted into the laboratory? | $+ \neq +$ | | |
| | | | |

Comments:



May 21, 2008

Serial: LAB-080521 42732

Ron Clarke Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609 RE: Lake Hancock Work Order: 0805062

Enclosed are the results of analyses for samples received by the laboratory on May 8, 2008.

All data were determined in accordance with published procedures (EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Rev March 1983; and Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992). Our laboratory is certified by Florida Department of Health (FDH No. E82001).

All results were determined in accordance with NELAP requirements and in accordance with the chain of custody document unless noted in the report case narrative or data report. All data is subject to a degree of uncertainty. For a discussion of laboratory uncertainty, please contact your project manager. This analytical report must be reproduced in its entirety.

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

Sincerely,

Karen Daniels Operations Manager kdaniels@aellab.com

Advanced Environmental Laboratories

Page 1 of 10

NELAC requires that any value reported be listed as having less certainty if the result is between the Method Detection Limit (MDL) and the Limit of Quantitation (LOQ). The levels shown in the table below are the laboratories MDL and LOQ. Any result reported that falls between these two values should be considered to have less certainty.

| Analyte | units | Method | MDL | LOQ |
|--|-------|-------------------|-------|-------|
| Ammonia | mg/L | EPA 350.1 | 0.009 | 0.0 |
| Chloride | mg/L | EPA 325.2 | 0.12 | |
| Chromium +6 | ug/L | 3500CrB, EPA 7196 | 4.5 | 7. |
| COD | mg/L | EPA 410.4 | 6.2 | 7. |
| Conductivity | uS/cm | EPA 120.1 | 9.2 | 14. |
| Cyanide | mg/L | 335.2, 9010/9014 | 0.002 | 0.00 |
| Fluoride (undistilled) | mg/L | EPA 340.2 | 0.02 | 0.0 |
| Kjeldahl Nitrogen (Alpkem - CuSO4 digestion) | mg/L | EPA 351.2 | 0.08 | 0. |
| Nitrite (Spectrophotometer) | mg/L | EPA 353.3 | 0.004 | 0.00 |
| Nitrite/Nitrate | mg/L | EPA 353.2 | 0.003 | 0.00 |
| Organic Carbon | mg/L | EPA 415.2 | 0.7 | ***** |
| Ortho Phosphorus, Genesys II | mg/L | EPA 365.2 | 0.002 | 0.00 |
| Dissolved Silica | mg/L | EPA 370.1 | 0.05 | |
| Sulfate | mg/L | EPA 375.4 | 0.33 | ***** |
| Total Carbon | mg/L | EPA 415.2 | 0.5 | |
| Total Phosphorus, Spec - Genesys II | mg/L | EPA 365.3 | 0.006 | 0.00 |
| Total Phosphorus, Alpkem | mg/L | EPA 365.1 | 0.002 | 0.00 |
| Turbidity | NTU | EPA 180.1 | 0.03 | 0. |
| Silver | ug/L | EPA 272.2/7761 | 0.1 | 0.1 |
| Tin | ug/L | EPA 282.2/7871 | 1.8 | 3.1 |
| Aluminum | ug/L | EPA 200.7/6010 | 13.9 | 5 |
| Antimony | ug/L | EPA 200.7/6010 | 2.9 | 5 |
| Arsenic | ug/L | EPA 200.7/6010 | 2.3 | 5 |
| Barium | ug/L | EPA 200.7/6010 | 0.2 | 54 |
| Bervllium | ug/L | EPA 200.7/6010 | 0.10 | 5 |
| Boron | ug/L | EPA 200.7/6010 | 1.5 | 5 |
| Cadmium | ug/L | EPA 200.7/6010 | 0.4 | 5 |
| Calcium | mg/L | EPA 200.7/6010 | 0.02 | 0.0 |
| Chromium | ug/L | EPA 200.7/6010 | 0.4 | 5(|
| Cobalt | ug/L | EPA 200,7/6010 | 0.4 | 5(|
| Copper | ug/L | EPA 200.7/6010 | 0.4 | 5 |
| ron | ug/L | EPA 200.7/6010 | 0.7 | 5(|
| Lead | ug/L | EPA 200.7/6010 | 1.9 | 5(|
| Magnesium | mg/L | EPA 200.7/6010 | 0.014 | 0.0 |
| Manganese | ug/L | EPA 200.7/6010 | 0.15 | 5(|
| Molybdenum | ug/L | EPA 200.7/6010 | 0.7 | 5(|
| Vickel | ug/L | EPA 200.7/6010 | 0.7 | 50 |
| Potassium | mg/L | EPA 200.7/6010 | 0.006 | 0.0 |
| elenium | ug/L | EPA 200.7/6010 | 2,4 | 50 |
| iodium | mg/L | EPA 200.7/6010 | 0.065 | 0. |
| Strontium | ug/L | EPA 200.7/6010 | 0.19 | 5(|
| Thallium | ug/L | EPA 200.7/6010 | 3.6 | |
| Titanium | ug/L | EPA 200.7/6010 | 0.26 | 50 |
| Vanadium | | EPA 200.7/6010 | 0.5 | 5(|
| Zinc | ug/L | EPA 200.7/6010 | 1.65 | 50 |

Serial: LAB-080521 42732

Page 2 of 10



| er: Ron Clarke | 05/21/08 16:27 |
|------------------|----------------|
| ct: Lake Hancock | Reported: |
| | er: Ron Clarke |

| | T 1 / TD | | | |
|-----------|---------------|--------|----------------|----------------|
| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
| W - 1 | 0805062-01 | Water | 05/07/08 10:10 | 05/08/08 08:00 |
| W - 2 | 0805062-02 | Water | 05/07/08 10:30 | 05/08/08 08:00 |
| W - 3 | 0805062-03 | Water | 05/07/08 11:20 | 05/08/08 08:00 |
| W - 4 | 0805062-04 | Water | 05/07/08 11:30 | 05/08/08 08:00 |
| LAKE | 0805062-05 | Water | 05/07/08 12:00 | 05/08/08 08:00 |
| C - 1 | 0805062-06 | Water | 05/07/08 11:40 | 05/08/08 08:00 |
| C - 2 | 0805062-07 | Water | 05/07/08 11:50 | 05/08/08 08:00 |
| DUP | 0805062-08 | Water | 05/07/08 12:05 | 05/08/08 08:00 |
| | | | | |



Wetland Solutions, Inc.Project: Lake HancockReported:2809 NW 161 CtProject: Manager: Ron Clarke05/21/08 16:27Gainesville, FL 32609Project Manager: Ron Clarke05/21/08 16:27

REPORT OF RESULTS

W - 1 0805062-01 (Water)

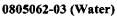
| | n (1 | | | | | | |
|--------|---|--|---|--|--|---|--|
| Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| 0.064 | 0.009 | mg/L | 1 | 8051206 | 05/12/08 | 05/21/08 14:41 | |
| 0.016 | 0.003 | mg/L | 1 | 8050901 | 05/09/08 | 05/13/08 12:36 | |
| 0.372 | 0.002 | mg/L | 1 | 8050814 | 05/08/08 | 05/08/08 13:15 | |
| 3.76 | 0.08 | mg/L | 1 | 8050811 | 05/08/08 | 05/09/08 00:00 | |
| 4.41 | 0.16 | mg/L | 2 | 8050810 | 05/08/08 | 05/09/08 00:00 | |
| 1.15 | 0.012 | mg/L | 2 | 8050816 | 05/08/08 | 05/08/08 15:15 | |
| 13.0 | 2.0 | mg/L | 1 | 8051212 | 05/12/08 | 05/12/08 12:00 | |
| | 0.064 0.016 0.372 3.76 4.41 1.15 | 0.064 0.009 0.016 0.003 0.372 0.002 3.76 0.08 4.41 0.16 1.15 0.012 | Result Limit Units 0.064 0.009 mg/L 0.016 0.003 mg/L 0.372 0.002 mg/L 3.76 0.08 mg/L 4.41 0.16 mg/L 1.15 0.012 mg/L | Result Limit Units Dilution 0.064 0.009 mg/L 1 0.016 0.003 mg/L 1 0.372 0.002 mg/L 1 3.76 0.08 mg/L 1 4.41 0.16 mg/L 2 1.15 0.012 mg/L 2 | Result Limit Units Dilution Batch 0.064 0.009 mg/L 1 8051206 0.016 0.003 mg/L 1 8050901 0.372 0.002 mg/L 1 8050814 3.76 0.08 mg/L 1 8050811 4.41 0.16 mg/L 2 8050810 1.15 0.012 mg/L 2 8050816 | Result Limit Units Dilution Batch Prepared 0.064 0.009 mg/L 1 8051206 05/12/08 0.016 0.003 mg/L 1 8050901 05/09/08 0.372 0.002 mg/L 1 8050814 05/08/08 3.76 0.08 mg/L 1 8050811 05/08/08 4.41 0.16 mg/L 2 8050810 05/08/08 1.15 0.012 mg/L 2 8050816 05/08/08 | Result Limit Units Dilution Batch Prepared Analyzed 0.064 0.009 mg/L 1 8051206 05/12/08 05/21/08 14:41 0.016 0.003 mg/L 1 8050901 05/09/08 05/13/08 12:36 0.372 0.002 mg/L 1 8050814 05/08/08 05/08/08 13:15 3.76 0.08 mg/L 1 8050811 05/08/08 05/09/08 00:00 4.41 0.16 mg/L 2 8050816 05/08/08 05/09/08 00:00 1.15 0.012 mg/L 2 8050816 05/08/08 05/08/08 15:15 |

W - 2

0805062-02 (Water)

| | Reporting | | | | | | |
|--------|--|--|--|---|---|--|--|
| Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| 0.063 | 0.009 | mg/L | 1 | 8051206 | 05/12/08 | 05/21/08 14:42 | |
| 0.017 | 0.003 | mg/L | 1 | 8050901 | 05/09/08 | 05/13/08 12:34 | |
| 0.222 | 0.002 | mg/L | 1 | 8050814 | 05/08/08 | 05/08/08 13:15 | |
| 2.81 | 0.08 | mg/L | 1 | 8051214 | 05/12/08 | 05/13/08 00:00 | |
| 3.58 | 0.16 | mg/L | 2 | 8051213 | 05/12/08 | 05/13/08 00:00 | |
| 0.840 | 0.012 | mg/L | 2 | 8050816 | 05/08/08 | 05/08/08 15:15 | |
| 8.0 I | 2.0 | mg/L | 1 | 8051212 | 05/12/08 | 05/12/08 12:00 | |
| | 0.063 0.017 0.222 2.81 3.58 0.840 | Result Limit 0.063 0.009 0.017 0.003 0.222 0.002 2.81 0.08 3.58 0.16 0.840 0.012 | Result Limit Units 0.063 0.009 mg/L 0.017 0.003 mg/L 0.222 0.002 mg/L 2.81 0.08 mg/L 3.58 0.16 mg/L 0.840 0.012 mg/L | Result Limit Units Dilution 0.063 0.009 mg/L 1 0.017 0.003 mg/L 1 0.222 0.002 mg/L 1 2.81 0.08 mg/L 1 3.58 0.16 mg/L 2 0.840 0.012 mg/L 2 | Result Limit Units Dilution Batch 0.063 0.009 mg/L 1 8051206 0.017 0.003 mg/L 1 8050901 0.222 0.002 mg/L 1 8050814 2.81 0.08 mg/L 1 8051214 3.58 0.16 mg/L 2 8051213 0.840 0.012 mg/L 2 8050816 | Result Limit Units Dilution Batch Prepared 0.063 0.009 mg/L 1 8051206 05/12/08 0.017 0.003 mg/L 1 8050901 05/09/08 0.222 0.002 mg/L 1 8050814 05/08/08 2.81 0.08 mg/L 1 8051214 05/12/08 3.58 0.16 mg/L 2 8051213 05/12/08 0.840 0.012 mg/L 2 8050816 05/08/08 | Result Limit Units Dilution Batch Prepared Analyzed 0.063 0.009 mg/L 1 8051206 05/12/08 05/21/08 14:42 0.017 0.003 mg/L 1 8050901 05/09/08 05/13/08 12:34 0.222 0.002 mg/L 1 8050814 05/08/08 05/08/08 13:15 2.81 0.08 mg/L 1 8051214 05/12/08 05/13/08 00:00 3.58 0.16 mg/L 2 8051213 05/12/08 05/13/08 00:00 0.840 0.012 mg/L 2 8050816 05/08/08 15:15 |

W - 3



| | | Reporting | | | | _ | | |
|--|---------|-----------|-------|----------|---------|----------|----------------|-------|
| Analysis | Result | . Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.033 I | 0.009 | mg/L | 1 | 8051206 | 05/12/08 | 05/21/08 14:43 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.007 I | 0.003 | mg/L | 1 | 8050901 | 05/09/08 | 05/13/08 12:44 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.412 | 0.002 | mg/L | 1 | 8050814 | 05/08/08 | 05/08/08 13:15 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.81 | 0.08 | mg/L | 1 | 8051214 | 05/12/08 | 05/13/08 00:00 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 2.06 | 0.08 | mg/L | 1 | 8051213 | 05/12/08 | 05/13/08 00:00 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.673 | 0.012 | mg/L | 2 | 8050816 | 05/08/08 | 05/08/08 15:15 | |
| Total Suspended Solids EPA 160.2 - 100mL | 4.0 I | 2.0 | mg/L | 1 | 8051212 | 05/12/08 | 05/12/08 12:00 | |



| Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | Reported: 05/21/08 16:27 |
|--|--|------------------------------------|
| | W - 4 | |
| | 0805062-04 (Water) | |

| | | Reporting | | | | | | |
|--|---------|-----------|-------|----------|---------|----------|----------------|-------|
| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.088 | 0.009 | mg/L | 1 | 8051206 | 05/12/08 | 05/21/08 14:49 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.008 I | 0.003 | mg/L | 1 | 8050901 | 05/09/08 | 05/13/08 12:45 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.270 | 0.002 | mg/L | 1 | 8050814 | 05/08/08 | 05/08/08 13:15 | |
| Fotal Kjeldahl Nitrogen, Dissolved EPA 351.2 | 1.88 | 0.08 | mg/L | 1 | 8051214 | 05/12/08 | 05/13/08 00:00 | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 1.97 | 0.08 | mg/L | 1 | 8051213 | 05/12/08 | 05/13/08 00:00 | |
| Fotal Phosphorus, Total EPA 365.3 (Spec) | 0.641 | 0.012 | mg/L | 2 | 8050816 | 05/08/08 | 05/08/08 15:15 | |
| Total Suspended Solids EPA 160.2 - 100mL | 5.0 I | 2.0 | mg/L | 1 | 8051212 | 05/12/08 | 05/12/08 12:00 | |

LAKE

0805062-05 (Water)

| | | Reporting | | | | | | |
|--|---------|-----------|-------|----------|---------|----------|----------------|-------|
| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.244 | 0.009 | mg/L | 1 | 8051206 | 05/12/08 | 05/21/08 14:50 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.035 | 0.003 | mg/L | 1 | 8050901 | 05/09/08 | 05/13/08 12:50 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.004 I | 0.002 | mg/L | 1 | 8050814 | 05/08/08 | 05/08/08 13:15 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 5.91 | 0.16 | mg/L | 2 | 8051214 | 05/12/08 | 05/13/08 00:00 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 14.3 | 0.40 | mg/L | 5 | 8051213 | 05/12/08 | 05/13/08 00:00 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.328 | 0.006 | mg/L | 1 | 8050816 | 05/08/08 | 05/08/08 15:15 | |
| Total Suspended Solids EPA 160.2 - 100mL | 117 | 2.0 | mg/L | 1 | 8051212 | 05/12/08 | 05/12/08 12:00 | |

C - 1

0805062-06 (Water)

| Analysis | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|--|--------|--------------------|-------|----------|---------|----------|----------------|-------|
| Ammonia, Total EPA 350.1 | 0.174 | 0.009 | mg/L | 1 | 8051206 | 05/12/08 | 05/21/08 14:51 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.051 | 0.003 | mg/L | 1 | 8050901 | 05/09/08 | 05/13/08 12:47 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.022 | 0.002 | mg/L | I | 8050814 | 05/08/08 | 05/08/08 13:15 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 4.34 | 0.16 | mg/L | 2 | 8051214 | 05/12/08 | 05/13/08 00:00 | |
| Fotal Kjeldahl Nitrogen, Total EPA 351.2 | 8.27 | 0.32 | mg/L | 4 | 8051213 | 05/12/08 | 05/13/08 00:00 | |
| Fotal Phosphorus, Total EPA 365.3 (Spec) | 1.03 | 0.012 | mg/L | 2 | 8050816 | 05/08/08 | 05/08/08 15:15 | |
| Total Suspended Solids EPA 160.2 - 100mL | 43.0 | 2.0 | mg/L | 1 | 8051212 | 05/12/08 | 05/12/08 12:00 | |



| Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609 | Project: Lake Hancock Project Manager: Ron Clarke | Reported: 05/21/08 16:27 |
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| w waaraa waa | C - 2 | |

0805062-07 (Water)

| Analysis | Result | Reporting Limit | Units . | Dilution | Batch | Prepared | Analyzed | Notes |
|--|--------|--------------------|---------|----------|---------|----------|----------------|-------|
| Ammonia, Total EPA 350.1 | 0.555 | 0.009 | mg/L | 1 | 8051206 | 05/12/08 | 05/21/08 14:52 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.016 | 0.003 | mg/L | 1 | 8050901 | 05/09/08 | 05/13/08 12:48 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.060 | 0.002 | mg/L | 1 | 8050814 | 05/08/08 | 05/08/08 13:15 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 4.39 | 0.16 | mg/L | 2 | 8051214 | 05/12/08 | 05/13/08 00:00 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 5.27 | 0.32 | mg/L | 4 | 8051213 | 05/12/08 | 05/13/08 00:00 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.452 | 0.012 | mg/L | 2 | 8050816 | 05/08/08 | 05/08/08 15:15 | |
| Total Suspended Solids EPA 160.2 - 100mL | 22.0 | 2.0 | mg/L | 1 | 8051212 | 05/12/08 | 05/12/08 12:00 | |

DUP 0805062-08 (Water)

| | | Reporting | | | | | | |
|--|---------|-----------|-------|----------|---------|----------|----------------|-------|
| Analysis | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
| Ammonia, Total EPA 350.1 | 0.227 | 0.009 | mg/L | 1 | 8051206 | 05/12/08 | 05/21/08 14:53 | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.073 | 0.003 | mg/L | 1 | 8050901 | 05/09/08 | 05/13/08 12:49 | |
| Soluble Reactive Phosphate EPA 365.2 | 0.004 I | 0.002 | mg/L | 1 | 8050814 | 05/08/08 | 05/08/08 13:15 | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 5.20 | 0.16 | mg/L | 2 | 8051214 | 05/12/08 | 05/13/08 00:00 | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 17.0 | 0.40 | mg/L | 5 | 8051213 | 05/12/08 | 05/13/08 00:00 | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.662 | 0.012 | mg/L | 2 | 8050816 | 05/08/08 | 05/08/08 15:15 | |
| Total Suspended Solids EPA 160.2 - 100mL | 105 | 2.0 | mg/L | 1 | 8051212 | 05/12/08 | 05/12/08 12:00 | |



Wetland Solutions, Inc. 2809 NW 161 Ct Gainesville, FL 32609

Project: Lake Hancock

Project Manager: Ron Clarke

Reported: 05/21/08 16:27

QUALITY CONTROL FOR SAMPLES

Solids - Quality Control

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--|------------------------|---------------------------------|-----------------------------|-----------------|--------|------|--------------------------|-----|--------------|------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Note |
| Batch 8051212 = Total Suspended Soli | ds EPA 16 | 0.2 - 100ml | | | | | | | | |
| Blank (8051212-BLK1) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Blank (8051212-BLK2) | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 2.0 U | 2.0 | mg/L | | | | | | | |
| Reference (8051212-SRM1) | | | | | | | | | | |
| | | | | | | | | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 106 | Nutrient | ^{mg/L} s - Qual | 100 ity Cont | rol | 106 | 80-120 | | | |
| Total Suspended Solids EPA 160.2 - 100mL | 106 Result | Reporting | s - Qual | ity Cont | Source | 106 | 80-120 %REC Limits | RPD | RPD Limit | Note |
| Total Suspended Solids EPA 160.2 - 100mL Analyte Batch 8050810 = Total Kjeldahl Nitrog | Result | Reporting Limit | - | ity Cont | | | %REC | RPD | | Note |
| Analyte | Result | Reporting Limit | s - Qual | ity Cont | Source | | %REC | RPD | | Note |
| Analyte Batch 8050810 = Total Kjeldahl Nitrog Blank (8050810-BLK1) | Result | Reporting Limit | s - Qual | ity Cont | Source | | %REC | RPD | | Note |
| Analyte Batch 8050810 = Total Kjeldahl Nitrog | Result gen, Total I | Reporting Limit EPA 351.2 | s - Qual | ity Cont | Source | | %REC | RPD | | Note |

| Blank (8050811-BLK1) | | | | | | | | | |
|--|------------------------------|----------------------|--------------|------|-------|-----------|--------|-----|----|
| Total Kjeldahl Nitrogen, Dissolved EPA 35 | 51.2 0.08 U | 0.08 | mg/L | | | | | | |
| LCS (8050811-BS1) | | | | | | | iz | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 35 | 51.2 1.88 | 0.08 | mg/L | 2.00 | | 94 | 90-110 | | |
| Batch 8050814 = Soluble Reactiv | e Phosphate EPA | 305.2 | | | | | | | |
| | | | | | | | | | |
| Blank (8050814-BLK1) | 0.002 U | 0.002 | mg/L | | | | | | |
| Blank (8050814-BLK1) Soluble Reactive Phosphate EPA 365.2 | | 0.002 | mg/L | | | | | | |
| Blank (8050814-BLK1) Soluble Reactive Phosphate EPA 365.2 Duplicate (8050814-DUP1) | 0.002 U | 0.002 | mg/L mg/L | | 0.222 | | | 0.9 | 20 |
| Blank (8050814-BLK1) Soluble Reactive Phosphate EPA 365.2 Duplicate (8050814-DUP1) Soluble Reactive Phosphate EPA 365.2 Matrix Spike (8050814-MS1) | 0.002 U Source: 0805062-(| 0.002 02 0.002 | _ | | 0.222 | . <u></u> | | 0.9 | 20 |



| Wetland Solutions, Inc. | | |
|-------------------------|-----------------------------|----------------|
| 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 05/21/08 16:27 |

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|--|-----------------|-----------------|-------|---------|---------|----------|---------------|-----|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 8050814 = Soluble Reactive P | hosphate EPA | A 365.2 | | | | | | | | |
| Reference (8050814-SRM1) | | | | | • | | | | | |
| Soluble Reactive Phosphate EPA 365.2 | 0.681 | | mg/L | 0.680 | | 100 | 80-120 | | | |
| Batch 8050816 = Total Phosphorus, | Total EPA 3 | 65.3 (Spec) | | | | | | | | |
| Blank (8050816-BLK1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.006 U | 0.006 | mg/L | | | | | | | |
| Duplicate (8050816-DUP4) So | urce: 0805062- | 06 | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.04 | 0.012 | mg/L | <u></u> | 1.03 | | | 1 | 20 | |
| Matrix Spike (8050816-MS4) So | urce: 0805062- | 07 | _ | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 1.00 | 0.012 | mg/L | 0.533 | 0.452 | 103 | 80-120 | | | |
| Reference (8050816-SRM1) | | | | | | | | | | |
| Total Phosphorus, Total EPA 365.3 (Spec) | 0.100 | 0.006 | mg/L | 0.108 | | 93 | 90-110 | | | |
| | | | | | | | | | | |
| Batch 8050901 = Nitrate-Nitrite, To | tal EPA 353.2 | , , | | | | | | | | |
| Blank (8050901-BLK1) | | | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.003 U | 0.003 | mg/L | | | | | | | |
| Duplicate (8050901-DUP3) So | urce: 0805062- | 01 | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.016 | 0.003 | mg/L | | 0.016 | | 1. 1. | 0 | 20 | |
| Matrix Spike (8050901-MS3) So | urce: 0805062- | 02 | | | | | | | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.435 | 0.003 | mg/L | 0.400 | 0.017 | 104 | 90-110 | | | ····· |
| Reference (8050901-SRM1) | | | | | | | | ÷ | | |
| Nitrate-Nitrite, Total EPA 353.2 | 0.398 | 0.003 | mg/L | 0.402 | | 99 | 90-110 | | | |
| | | | Ũ | | | | | | | |
| Reference (8050901-SRM2) Nitrate-Nitrite, Total EPA 353.2 | 0.944 | 0.003 | mg/L | 1.00 | | 94 | 90-110 | | | |
| Annae-Minne, Four Diff 355.2 | 0.777 | 0.005 | ing/L | 1.00 | | <i>,</i> | <i>yo</i> 110 | | | |
| Batch 8051206 = Ammonia, Total El | PA 350.1 | ••••• • • • • • | | | | | | | | |
| Blank (8051206-BLK1) | | | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.009 U | 0.009 | mg/L | | | | | | | |
| Duplicate (8051206-DUP3) Sou | urce: 0805062-0 | 08 | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.232 | 0.009 | mg/L | | 0.227 | | | 2 | 20 | |
| Reference (8051206-SRM1) | | | | | | | | | | |
| Ammonia, Total EPA 350.1 | 0.602 | 0.009 | mg/L | 0.580 | <u></u> | 104 | 90-110 | | | |
| | | | | | | | | | | |



| Wetland Solutions, Inc. | | |
|-------------------------|-----------------------------|----------------|
| 2809 NW 161 Ct | Project: Lake Hancock | Reported: |
| Gainesville, FL 32609 | Project Manager: Ron Clarke | 05/21/08 16:27 |

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| Batch 8051213 = Total Kjeldahl Nitro | gen, Total 🛛 | EPA 351.2 | | | | | | | | |
| Blank (8051213-BLK1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| Blank (8051213-BLK2) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| LCS (8051213-BS1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 1.92 | 0.08 | mg/L | 2.00 | | 96 | 90-110 | | | |
| LCS (8051213-BS2) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 1. 94 | 0.08 | mg/L | 2.00 | | 97 | 90-110 | | | |
| Duplicate (8051213-DUP2) Sour | ce: 0805062- | •06 | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 7.84 | 0.32 | mg/L | | 8.27 | | | 5 | 20 | |
| Matrix Spike (8051213-MS3) Sour | ce: 0805062- | 07 | | | | | | | | |
| Total Kjeldahl Nitrogen, Total EPA 351.2 | 9.47 | 0.32 | mg/L | 4.00 | 5.27 | 105 | 90-110 | | | |
| Batch 8051214 = Total Kjeldahl Nitro | gen, Dissolv | ved EPA 35 | 51.2 | | | | | | | |
| Blank (8051214-BLK1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 0.08 U | 0.08 | mg/L | | | | | | | |
| LCS (8051214-BS1) | | | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.08 | 0.08 | mg/L | 2.00 | | 104 | 90-110 | | | |
| Duplicate (8051214-DUP1) Sour | ce: 0805062- | 02 | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.90 | 0.08 | mg/L | | 2.81 | | | 3 | 20 | |
| Matrix Spike (8051214-MS1) Sour | ce: 0805062- | 03 | | | | | | | | |
| Total Kjeldahl Nitrogen, Dissolved EPA 351.2 | 2.81 | 0.08 | mg/L | 1.00 | 1.81 | 100 | 90-110 | | | |



Wetland Solutions, Inc.

6815 SW Archer Rd Gainesville, FL 32608 352.377.2349 Phone 352.395.6639 Fax NELAP Certified - FDH #E82001

2809 NW 161 Ct **Reported:** 05/21/08 16:27 Gainesville, FL 32609 Project Manager: Ron Clarke NOTES AND DEFINITIONS S-REX Poor matrix spike recovery; created reextract. S-CON Poor matrix spike recovery on reextract; results and recoveries confirm. D-RNG The difference of the concentrations of the sample and its duplicate is low in comparison to the MDL. It is the general policy of the laboratory that when the range is at this level the sample is not rerun and the data is considered acceptable. U Analyte not detected at or above the method detection limit Analyte not detected above the practical quantitation limit. I NR Not Reported Sample results reported on a dry weight basis dry

Project: Lake Hancock

RPD Relative Percent Difference

| Date / Time | | | | me | Date / Time | 0080 | 8-8 | l [®] . | 00 gr | 8002/80/2008 | Dale / Time |
|--|-------------|------------------|--------------|----------|--------------|---------------|----------------|---|-----------------|--------------------------------|------------------------------------|
| Сотрапу | | | | y | Company | | AF2 | Company A | | utions, Inc. | Wetland Solutions, Inc. Company |
| Printed Name | | | | lame | Printed Name | | | Printed Name | | 5 | Sky Notestein Printed Name |
| Signature | 4 - - | | - | æ | Signature | | | Signature C | | , aut | Signature |
| RECEIVED BY: | BY: | RELINQUISHED BY | LINQ | Я | | Y: | RECEIVED BY: | | BY: | RELINQUISHED BY: | RE |
| | | | | | | | | | | | |
| | | | + | | | | 14ke | latelled as | Albothes | | |
| | | | | | | | | | | | |
| -08 | | × | × | X | × | GRAB | WS | DUP | | 1205 | 5/7/2008 |
| -0-? | | × | × | × | × | GRAB | WS | C-2 | | 0511 | 5/7/2008 |
| 20- | | × | × | × | × | GRAB | SW | C-1 | | 1140 | 5/7/2008 |
| 50- | | × | × | × | × | GRAB | WS | W-5 60/20 | × | 1200 | 5/7/2008 |
| 3 | | × | × | × | × | GRAB | WS | W-4 | _ | 11 30 | 5/7/2008 |
| 50- | | × | × | X | Х | GRAB | WS | W-3 | _ | 1120 | 5/7/2008 |
| -02 | | × | × | X | X | GRAB | WS | W-2 | _ | 1030 | 5/7/2008 |
| -01 | | × | × | × | X | GRAB | WS | W-1 | | 10/0 | 5/7/2008 |
| REMARKS / ALTERNATE DESC | | TP / OI | TKN/ | NH3 / I | TSS | GRAB/ COMP | MATRIX | SAMPLE I. D. | SAMP | TIME | DATE |
| | | rtho | TKN | NO3 | LL | | P (Periphyton | Matrix: SW (Surface Water), GW (Ground Water), S (Soil), P (Periphyton) | GW (Ground) | urface Water), | Matrix: SW (S |
| | | Ρ | Dissol | | | | | | | | |
| Ű | | | vec | | | | | | id. | No samples filtered in field. | No samples |
| 0. NONE 3. H2SO4 1. HCL 4. Sodium Thiosulfate | | | 1 | - | | | | | | | No Chi a. |
| PRESERVATIVE KEY | | | | | | | | | nments: | Special Instructions/Comments: | Special Inst |
| Laboratories, Inc. | Ē | PRESERVATIVE | PRESE | | | Rush | | Standard | × | TURN AROUND TIME: | TURN ARC |
| LAB: Advanced Environmental | ESTED | ANALYSIS REQUEST | SISAT | ANA | | 32609 | nesville, FL : | 2809 NW 161 Court, Gainesville, FL 32609 | 2809 NW 1 | ADDRESS: | |
| Page t of 1 | | FINC. | - 11 - 11 | | • | | inc.com | ckeller@wetlandsolutionsinc.com | ckeller@we | E-MAIL: | |
| 0000000 | ions, | olut | | ISM . | | | | 196 | (386) 462-3196 | FAX: | |
| × 202100 | ind | Wetland | | | \ | | | 286 | (386) 462-9286 | PHONE: | |
| | • | | | ? | | | | Ä | Chris Keller | PROJECT MANAGER: | PROJECT |
| CHAIN-OF-CUSTODY FORM | N-OF-CI | CHA | | | | | n Study | Lake Hancock Vegetation Study | Lake Hanc | PROJECT: | |
| | | | | | | | | | | | |

| GDD Advanced Environmental Labs Inc | Advanced Environmental Labs 6815 SW Archer Rd. Gainesville, FL 32608 |
|--|--|
| Client: <u>Wettond Solutions</u> Project nam Date/Time Rcvd: <u>5-8-08/0800</u> Log-In request number Received by: <u>P.L.</u> Completed b | |

Cooler/Shipping Information:

Courier:
AEL Client UPS Pony Express FedEx Blue Streak ASAP Other (describe): _____

Type: Cooler D Box D Other (describe) <u>Used LT-1 mini temp. F.S.</u>

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

| Cooler ID | $\underline{C-1}$ | | | | |
|-----------------|---------------------------------|---|-----------------------------|-----------------------------|---|
| Temp (°C) | 1.400 | | | | ┠─── <u>─</u> ┨ |
| Temp taken from | □ Temp blank 3 Sample bottle | Temp blank Sample bottle | Temp blank | Temp blank | Temp blank |
| Temp measured | AR gun | 🗆 IR gun | □ Sample bottle □ IR gun | □ Sample bottle □ IR gun | □ Sample bottle □ IR gun □ Thermometer (enter |

Other Information:

Any "NO" responses or discrepancies should be explained in the "Comments" section below.

| CHECKLIST | | | |
|--|-------------|------|----------|
| 1. Were custody seals on shipping container(s) intact? | YES | NO | NA |
| 2. Were custody papers properly included with samples? | | | |
| 3. Were custody papers properly filled out (i. i. | | | $- \sim$ |
| Were custody papers properly filled out (ink; signed, match labels)? Did all bottles arrive in academic living in and the living of the labels o | | | |
| un obtilos atrive il good condition (unbroken)? | -+-5 | | |
| and an ootile labels complete (sample # data signed 1) | $-+ \leq +$ | | |
| | <u>~</u> | | |
| 7. were correct bottles used for the tests indicated? | ~ | . T | |
| 8. Were proper sample preservation techniques indicated on the label? | | | |
| 9. Were samples received within holding times? | | | |
| 10 Were all VOA viole characteristic interview of the second seco | | ╼╌╶┽ | |
| 10. Were all VOA vials checked for the presence of air bubbles? | | | |
| 11. Wore more all publies present in the VOA winted | -++ | | |
| 12. Were samples in direct contact with wet ice? If "No." about | | | \geq |
| | | | |
| 14. Were sample pHs checked and recorded by Sample G. 10 | | | |
| NOTE: VOA samples are checked by laboratory analysis. | | | |
| 15. Were the sample containers provided by AEL? | | | |
| 16 Were semple containers provided by AEL? | | | |
| 16. Were samples accepted into the laboratory? | $+ \leq +$ | | |
| | | | |

Comments: