

Task 2.3

Quarterly Status Report #6

For the Project entitled

Lamb Island Dairy Remediation

SFWMD Contract No. C-13410

Submitted by

HSA Engineers & Scientists

HSA Project No. 8005-7106-00
November 2005

Introduction

This is the sixth of the six required quarterly status reports for the Lamb Island Dairy Remediation project. The Contract requires quarterly status reports beginning concurrently with the construction of the remedial alternatives. A Contract Amendment (Amendment No. 1 to Contract No. C-13410) was entered into on March 21, 2004, which set in-place the design conditions included in the Final Detailed Design and Specifications Package. The construction of the remedial alternative is complete and water quality monitoring activities have begun. This report covers the period of July 1, 2005 to October 31, 2005. The primary activities completed during this reporting period have been the scheduled quarterly sampling trip, and seven rainfall driven sampling events.

Site Condition

The Lamb Island Dairy site is in good general condition. Grass continues to grow in all areas and has made it difficult to get around the farm. All major constructed features remain in good condition. Seven rain events (rainfall greater than 0.5 inches) or District project Manager directed sampling events have occurred during this period. Runoff has been observed leaving the site on the July 13th and October 28th, 2005 sampling events from the SW-5 sampling location.

Quarterly Sampling Event

On August 16, 2005 the fourth quarterly scheduled sampling event was completed. **Figure 1** shows the location of the six surface water sampling location and the one ground water monitoring location just south of Pond 3. **Table 1** shows water quality results for all sampling locations for the current and previous sampling events. **Appendix A** contains laboratory results and sample chain of custody. **Appendix B** contains field sampling notes. All sampling was conducted in accordance with FDEP Quality Assurance Rule, Chapter 62-160.210 F.A.C., the associated FDEP SOPs, and HSA's Quality Assurance Manual. HSA designated US Biosystems as the lab water quality samples would be sent to in Task 2.2 Final Performance Monitoring Plan. Jupiter Labs and Palm Beach Environmental Labs were used in some instances in order to improve minority participation and because they were listed on the HSA team in our proposal for this project. Both are NELAC certified labs suitable for low range phosphorus testing.

Table 1. Sampling Results thru 10/28/05

Date	SW-1		SW-2		SW-3		SW-4		SW-5		SW-6		GW-1	
	TP	Ortho-P	TP	Ortho-P	TP	Ortho-P	TP	Ortho-P	TP	Ortho-P	TP	Ortho-P	TP	Aluminum
11/18/04*	2.1	2	1.6	1.4	2.5	2.4	4.4	4.2	--	--	0.82	0.62	0.085	3.1
2/18/05*	1.8	1.8	0.81	0.68	1.6	1.6	--	--	--	--	0.79	0.51	BDL	3.3
03/04/05	1.2	1.3	0.94	0.61	1.4	1.3	--	--	--	--	--	--	--	--
5/16/05*	1.5	1.3			1.7	1.3	--	--	--	--	0.42	0.38	BDL	5.3
06/08/05	3.7	2.7	1.4	BDL	1.9	BDL	--	--	2.2 [^]	1.5 [^]	--	--	--	--
06/15/05	3.1	2.8	1.3	0.96	4.5	1.8	--	--	3	2.7	--	--	--	--
06/28/05	3.5	3.5	1.2	0.93	1.7	1.3	--	--	3 [^]	2.9 [^]	--	--	--	--
07/13/05	--	--	--	--	3.3	1.9	--	--	3.2 [^]	2.9 [^]	--	--	--	--
8/16/05*	1.7	1.2	--	--	1.1	0.9	--	--	1.5	1.1	0.9	0.65	0.5	1.8
08/30/05	4.6	2.3	--	--	5	1.9	--	--	5.7	2	--	--	--	--
09/07/05	4.1	2	--	--	4.6	2.5	--	--	3.6	2	--	--	--	--
09/16/05	2.4	1.87	--	--	2.6	0.63	--	--	2	1.95	--	--	--	--
09/30/05	1.9	2	--	--	15	1.9	--	--	--	--	--	--	--	--
10/21/05	2.3	1.7	--	--	6.5	2.2	--	--	--	--	--	--	--	--
10/28/05	1.3	1.7	--	--	1.7	2.1	--	--	0.63 [^]	0.79 [^]	--	--	--	--

Sampling location SW-1 was analyzed for Total Phosphorus(TP) and Ortho-Phosphorus(OPO) analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 1.7 parts per million(ppm) and 1.2 ppm, respectively.

Sampling location SW-2 was not sampled due to insufficient water at the sampling location.

Sampling location SW-3 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 1.1 ppm and 0.9 ppm, respectively.

Sampling location SW-4 was inaccessible at the time of sampling so no sample was collected.

Sampling location SW-5 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 1.5 ppm and 1.1 ppm, respectively.

Sampling location SW-6 is located in Pond 3 and was collected for TP and OPO analysis. The sample was collected on the north side of the pond approximately midway between the east and west end of the pond. Results for TP and OPO were 0.90 ppm and 0.65 ppm, respectively.

Sampling location GW-1 is a shallow groundwater well located near the south side of Pond 3. This well was installed to assess the impact of Alum treated Pond 3 water to the regional ground water as well as groundwater TP concentration. The well has total depth of 8.8 feet from the top of casing and at the time of sampling the depth to water was 3.05 feet. Results for Aluminum analysis of the ground water was 1.8 ppm and TP results were 0.5 ppm.

Rain Driven Sampling Events

During the period of July 13 through October 28, 2005 seven sampling events were completed. These sampling trips were triggered either from rainfall greater than 0.5 inches within the basin in the last 48 hours or at the direction of the District Project Manager in order to complete the required amount of sampling events within the contract period. **Figures 2, 3, and 4** show views of various areas on the site as indicated in the figure titles. These figures are shown to display the general state of the site at the time of sampling.

July 13th, 2005 Rain Driven Sampling Event

On July 13, 2005 sampling was completed on site due to rainfall greater than 0.5 inches within the basin in the last 48 hours. Flow off site was observed at sampling location SW-5 only. Only sampling location SW-4 was not sampled because it was inaccessible. GW-1 and SW-6 were not sampled because they are only monitored on a quarterly basis. **Table 1** shows sampling results for all locations.

Sampling location SW-3 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 3.3 ppm and 1.9 ppm, respectively.

Sampling location SW-5 was collected for TP and OPO analysis. At the time of sampling there was flow through this sampling location and a sample was obtained in the outfall of the water over the boards. Results for TP and OPO were 3.2 ppm and 2.9 ppm, respectively.

August 30th, 2005 Rain Driven Sampling Event

On August 30, 2005 sampling was completed on site due to rainfall greater than 0.5 inches within the basin in the last 48 hours. No flow off site was observed at any sampling locations. Sampling location SW-2 was not sampled because the sampling location was dry and SW-4 was not sampled because it was inaccessible. GW-1 and SW-6 were not sampled because they are only monitored on a quarterly basis. **Table 1** shows sampling results for all locations.

Sampling location SW-1 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 4.6 ppm and 2.3 ppm, respectively.

Sampling location SW-3 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 5.0 ppm and 1.9 ppm, respectively.

Sampling location SW-5 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained on the upstream side of the culvert, in ponded water. Results for TP and OPO were 5.7 ppm and 2.0 ppm, respectively.

September 7th, 2005 Rain Driven Sampling Event

On June 15, 2005 sampling was completed on site due to rainfall greater than 0.5 inches within the basin in the last 48 hours. No flow off site was observed at any sampling locations. Sampling location SW-2 was not sampled because the sampling location was dry and sampling location SW-4 was not sampled because it was inaccessible. GW-1 and SW-6 were not sampled because they are only monitored on a quarterly basis. **Table 1** shows sampling results for all locations.

Sampling location SW-1 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 4.1 ppm and 2.0 ppm, respectively.

Sampling location SW-3 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 4.6 ppm and 2.5 ppm, respectively.

Sampling location SW-5 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained on the upstream side of the culvert, in ponded water. Results for TP and OPO were 3.6 ppm and 2.0 ppm, respectively.

September 16th, 2005 Sampling Event

On September 16, 2005 sampling was completed on site at the direction of the District project manager. No flow off site was observed at any sampling locations. Sampling location SW-2 was not sampled because the sampling location was dry and sampling location SW-4 was not sampled because it was inaccessible. GW-1 and SW-6 were not

sampled because they are only monitored on a quarterly basis. **Table 1** shows sampling results for all locations.

Sampling location SW-1 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 2.4 ppm and 1.9 ppm, respectively.

Sampling location SW-3 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 2.6 ppm and 0.6 ppm, respectively.

Sampling location SW-5 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained on the upstream side of the culvert, in ponded water. Results for TP and OPO were 2.0 ppm and 1.95 ppm, respectively.

September 30th, 2005 Sampling Event

On September 30, 2005 sampling was completed on site at the direction of the District project manager. No flow off site was observed at any sampling locations. Sampling locations SW-2, SW-4 and SW-5 were not sampled because the sampling locations were dry. GW-1 and SW-6 were not sampled because they are only monitored on a quarterly basis. **Table 1** shows sampling results for all locations.

Sampling location SW-1 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 1.9 ppm and 2.0 ppm, respectively.

Sampling location SW-3 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 4.5 ppm and 1.8 ppm, respectively.

Sampling location SW-5 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained on the upstream side of the culvert, in ponded water. Results for TP and OPO were 15 ppm and 1.9 ppm, respectively.

October 21st, 2005 Sampling Event

On October 21, 2005 sampling was completed on site at the direction of the District project manager. No flow off site was observed at any sampling locations. Sampling locations SW-2, SW-4 and SW-5 were not sampled because the sampling locations were dry. GW-1 and SW-6 were not sampled because they are only monitored on a quarterly basis. **Table 1** shows sampling results for all locations.

Sampling location SW-1 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 2.3 ppm and 1.7 ppm, respectively.

Sampling location SW-3 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 6.5 ppm and 2.2 ppm, respectively.

October 28th, 2005 Rain Driven Sampling Event

On October 28, 2005 sampling was completed on site due to rainfall greater than 0.5 inches within the basin in the last 48 hours. Flow off site was observed at sampling location SW-5. Sampling location SW-2 was not sampled because the sampling location was dry. SW-4 was not sampled because it was inaccessible. GW-1 and SW-6 were not sampled because they are only monitored on a quarterly basis. **Table 1** shows sampling results for all locations.

Sampling location SW-1 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 1.3 ppm and 1.7 ppm, respectively.

Sampling location SW-3 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 1.7 ppm and 2.1 ppm, respectively.

Sampling location SW-5 was collected for TP and OPO analysis. At the time of sampling there was flow through this sampling location and a sample was obtained in the outfall of the discharge over the boards. Results for TP and OPO were 0.63 ppm and 0.79 ppm, respectively.

Construction Activities

All major construction is complete and no construction occurred during this period.

Next Quarter Activities

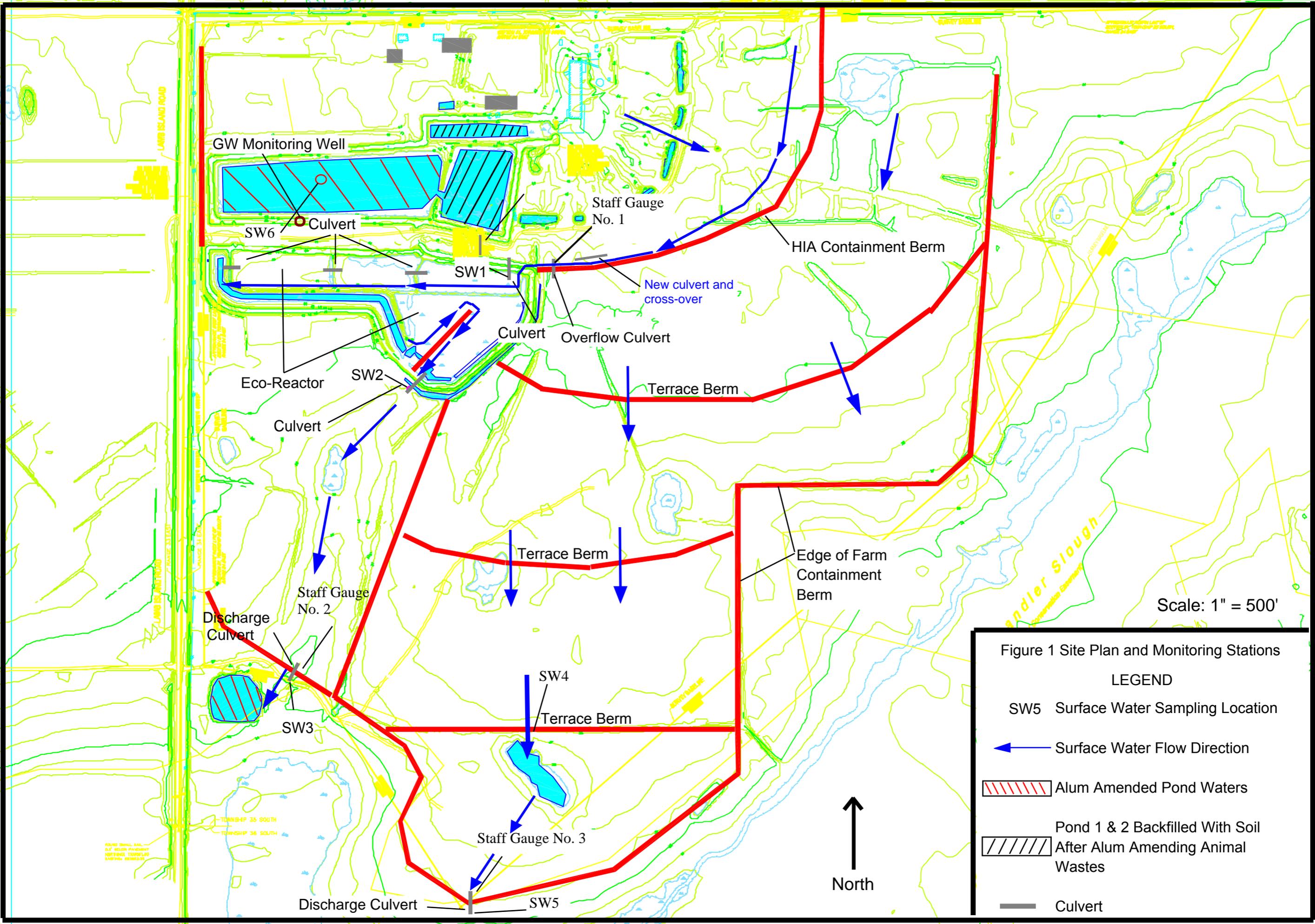
This is the final quarterly report for the Lamb Island Dairy Project. A Final Report and Operation and Maintenance manual will follow.

Invoicing Status Sheet

SFWMD Contract No. C-13410	Q-6 Report		7/1/05 - 10/31/05	
TASKS / DELIVERABLES DESCRIPTION	Task Budget	Invoiced this Period	Invoiced to Date	Retainage Not Invoiced
TASK 1 - Detailed Design for Selected Alternatives				
1.1 Project kick-off meeting	\$1,500	\$0	\$1,500	
1.2 Draft Preliminary 30% Design Package	\$21,223	\$0	\$21,223	
1.3 Final Preliminary 30% Design Package	\$3,975	\$0	\$3,975	
1.4 Detailed 90% Design Package	\$7,603	\$0	\$7,603	
1.5 Final Detailed Design and Specifications Package	\$4,227	\$0	\$4,227	
1.6 Construction Completion	\$282,493	\$0	\$282,493	
TASK 2 - Project Implementation and Performance Monitoring				
2.1 Draft Performance Monitoring Plan	\$4,507	\$0	\$4,507	
2.2a Final Performance Monitoring Plan	\$2,100	\$0	\$2,100	
2.2b One (1) Year of Monitoring (15 events)	\$10,033	\$5,351	\$5,351	
2.3 Quarterly Reports	\$17,770	\$11,847	\$11,847	
2.4 Quarterly Site Meetings	\$4,060	\$2,707	\$2,707	
TASK 3 - Project Performance Evaluation				
3.1 Draft O&M Plan	\$3,985	\$0	\$0	
3.2 Final O&M Plan	\$1,933	\$0	\$0	
3.3 Draft Final Report	\$11,715	\$0	\$0	
3.4 Final Project Report	\$4,856	\$0	\$0	
Totals	\$381,980	\$19,905	\$347,532	

MWBE Participation:

Amount to date = \$ 41,611.40
 MWBE Goal = 7.0%
 Target Project Goal = \$ 26,738.60



GW Monitoring Well

Staff Gauge No. 1

SW6

Culvert

SW1

New culvert and cross-over

HIA Containment Berm

Culvert

Overflow Culvert

Terrace Berm

Eco-Reactor

SW2

Culvert

Terrace Berm

Edge of Farm Containment Berm

Staff Gauge No. 2

Discharge Culvert

SW3

SW4

Terrace Berm

Staff Gauge No. 3

Discharge Culvert

SW5

Scale: 1" = 500'

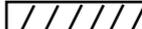
Figure 1 Site Plan and Monitoring Stations

LEGEND

SW5 Surface Water Sampling Location

← Surface Water Flow Direction

 Alum Amended Pond Waters

 Pond 1 & 2 Backfilled With Soil After Alum Amending Animal Wastes

 Culvert





Figure 2. SW-5 sampling location



Figure 3. View of created wetland area looking east from SW-5 sampling location.



Figure 4. View of SW-3 sampling location

APPENDIX A



Palm Beach Environmental
Laboratories, Inc.

Client # 107

Client Name: HSA Engineers & Scientists

Address: 1486-A Skees Road

West Palm Beach, FL 33411

Attention: Terry Horan

Page 1 of 5

Date: 07/25/05

Log # 1058-01

Sample Description: COC# 1219

Project#: W6422005

Project: Lamb Island Dairy

Matrix: Water

Label: SW-3

Date Sampled: 07/13/05 11:25

Date Received: 07/14/05 12:30

Collected By: Client

Parameter	Results	Units	Method	Dilution Factor	Detection Limit	Extraction Date	Analysis Date	Analyst
Phosphorus Total	3.3	mg/l	365.4	1	0.015	7/22/2005	7/22/2005	EL

Parameter	Results	Units	Method	Dilution Factor	Detection Limit	Extraction Date	Analysis Date	Analyst
Phosphorus Ortho	1.9	mg/l	365.1	1	0.064	7/14/2005	7/15/2005	EL

U = Below Laboratory Detection Limit

All Analysis were performed using EPA, ASTM, USGS or Standard Methods
EPA# FL01227 HRS# E86957
NELAC Certified

Respectfully Submitted

Pamela Shore
Quality Assurance Officer



Palm Beach Environmental
Laboratories, Inc.

Client # 107
Client Name: HSA Engineers & Scientists
Address: 1486-A Skees Road
West Palm Beach, FL 33411
Attention: Terry Horan

Page 2 of 5
Date: 07/25/05
Log # 1058-02

Sample Description: COC# 1219
Project#: W6422005
Project: Lamb Island Dairy
Matrix: Water

Label: SW-5
Date Sampled: 07/13/05 12:02
Date Received: 07/14/05 12:30
Collected By: Client

Parameter	Results	Units	Method	Dilution Factor	Detection Limit	Extraction Date	Analysis Date	Analyst
Phosphorus Total	3.2	mg/l	365.4	1	0.015	7/22/2005	7/22/2005	EL

Parameter	Results	Units	Method	Dilution Factor	Detection Limit	Extraction Date	Analysis Date	Analyst
Phosphorus Ortho	2.9	mg/l	365.1	1	0.064	7/14/2005	7/15/2005	EL

U = Below Laboratory Detection Limit

All Analysis were performed using EPA, ASTM, USGS or Standard Methods
EPA# FL01227 HRS# E86957
NELAC Certified

Respectfully Submitted

Pamela Shore
Quality Assurance Officer



Palm Beach Environmental Laboratories, Inc.

Client # 107
Client Name: HSA Engineers & Scientists
Address: 1486-A Skees Road
West Palm Beach, FL 33411
Attention: Terry Horan

Page 3 of 5
Date: 07/25/05
Log # 1058-03

Sample Description: COC# 1219
Project#: W6422005
Project: Lamb Island Dairy
Matrix: Water

Label: SW-5 DUP
Date Sampled: 07/13/05 12:07
Date Received: 07/14/05 12:30
Collected By: Client

Parameter	Results	Units	Method	Dilution Factor	Detection Limit	Extraction Date	Analysis Date	Analyst
Phosphorus Total	3.1	mg/l	365.4	1	0.015	7/22/2005	7/22/2005	EL

Parameter	Results	Units	Method	Dilution Factor	Detection Limit	Extraction Date	Analysis Date	Analyst
Phosphorus Ortho	2.9	mg/l	365.1	1	0.064	7/14/2005	7/15/2005	EL

U = Below Laboratory Detection Limit

All Analysis were performed using EPA, ASTM, USGS or Standard Methods
EPA# FL01227 HRS# E86957
NELAC Certified

Respectfully Submitted

Pamela Shore
Quality Assurance Officer

1550 Latham Road, Suite 2

West Palm Beach, FL 33409

(561) 689-6701 fax (561) 689-6702

NELAC Certified

1550 Latham Road, Suite 2

West Palm Beach, FL 33409

(561) 689-6701 fax (561) 689-6702



Palm Beach Environmental
Laboratories Inc.



Terry Horan
HSA Engineers & Scientists
West Palm Beach, FL 33411
(561) 688-9008
LOG #: 0001136

August 31, 2005

Enclosed is the laboratory report for your project. All results meet the requirements of the NELAC standards.

Please note the following:

- The samples were received as stated on the chain of custody, correctly labeled and at the proper temperature unless otherwise noted. The results contained in this report relate only to the items tested or to the samples as received by the laboratory.
- This report may not be reproduced except in full, without the written approval of the laboratory. Any anomalies are noted in the case narrative.
- Results for all solid matrices are reported in dry weight unless otherwise noted.
- Results for all liquid matrices are analyzed as received in the laboratory unless otherwise noted.
- Samples are disposed of within 30 days of their receipt by the laboratory.
- A statement of Qualifiers is available upon request.
- Certain analyses are subcontracted to outside NELAC certified laboratories and are designated on your report.
- Precision & Accuracy will be provided when clients require a measure of estimated uncertainty.
- The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report Preliminary Data should not be used for regular purposes. Authorized signature(s) is provided on final report only

Please contact me if you have any questions or concerns regarding this report.

Sincerely,

Pamela Shore
QA Officer

EPA # FL01227
HRS# E86957
SRWMD# 48141
PBC # VC0000018083



Palm Beach Environmental
Laboratories Inc.

CERTIFICATE OF ANALYSIS

HSA Engineers & Scientists
1486-A Skees Road
West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 **FAX:** (561) 688-9005

LOG #: 0001136

COC#: 1427

REPORTED: 08/31/05 13:33

PROJECT #: W6422005

PROJECT: Lamb Island

Description: SW-3	Lab ID: 0001136-01	Sampled: 08/16/05 09:30
Matrix: Water	Sampled By: Client	Received: 08/17/05 10:20

Phosphorus, Ortho

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
1426-54-42	Orthophosphate as P	0.900	mg/L	EPA 365.1	1	0.0640	08/16/05	08/18/05	EL

Phosphorus, Total

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
7723-14-0	Phosphorus	1.1	mg/L	EPA 365.4	1	0.02	08/16/05	08/29/05	EL



Palm Beach Environmental
Laboratories Inc.

CERTIFICATE OF ANALYSIS

HSA Engineers & Scientists
1486-A Skees Road
West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 **FAX:** (561) 688-9005

LOG #: 0001136

COC#: 1427

REPORTED: 08/31/05 13:33

PROJECT #: W6422005

PROJECT: Lamb Island

Description: EB	Lab ID: 0001136-02	Sampled: 08/16/05 09:35
Matrix: Water	Sampled By: Client	Received: 08/17/05 10:20

Phosphorus, Ortho

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
1426-54-42	Orthophosphate as P	U	mg/L	EPA 365.1	1	0.0640	08/16/05	08/18/05	EL

Phosphorus, Total

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
7723-14-0	Phosphorus	U	mg/L	EPA 365.4	1	0.02	08/16/05	08/29/05	EL



Palm Beach Environmental
Laboratories Inc.

CERTIFICATE OF ANALYSIS

HSA Engineers & Scientists
1486-A Skees Road
West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 **FAX:** (561) 688-9005

LOG #: 0001136

COC#: 1427

REPORTED: 08/31/05 13:33

PROJECT #: W6422005

PROJECT: Lamb Island

Description: SW-5	Lab ID: 0001136-03	Sampled: 08/16/05 10:15
Matrix: Water	Sampled By: Client	Received: 08/17/05 10:20

Phosphorus, Ortho

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
1426-54-42	Orthophosphate as P	1.10	mg/L	EPA 365.1	1	0.0640	08/16/05	08/18/05	EL

Phosphorus, Total

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
7723-14-0	Phosphorus	1.5	mg/L	EPA 365.4	1	0.02	08/16/05	08/29/05	EL



Palm Beach Environmental
Laboratories Inc.

CERTIFICATE OF ANALYSIS

HSA Engineers & Scientists
1486-A Skees Road
West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 **FAX:** (561) 688-9005

LOG #: 0001136

COC#: 1427

REPORTED: 08/31/05 13:33

PROJECT #: W6422005

PROJECT: Lamb Island

Description: SW-5 Dup.

Lab ID: 0001136-04

Sampled: 08/16/05 10:20

Matrix: Water

Sampled By: Client

Received: 08/17/05 10:20

Phosphorus, Ortho

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution Factor</u>	<u>Detection Limit</u>	<u>Extraction Date</u>	<u>Analysis Date</u>	<u>Analyst</u>
1426-54-42	Orthophosphate as P	1.10	mg/L	EPA 365.1	1	0.0640	08/16/05	08/18/05	EL

Phosphorus, Total

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution Factor</u>	<u>Detection Limit</u>	<u>Extraction Date</u>	<u>Analysis Date</u>	<u>Analyst</u>
7723-14-0	Phosphorus	1.4	mg/L	EPA 365.4	1	0.02	08/16/05	08/29/05	EL



Palm Beach Environmental
Laboratories Inc.

CERTIFICATE OF ANALYSIS

HSA Engineers & Scientists
1486-A Skees Road
West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 **FAX:** (561) 688-9005

LOG #: 0001136

COC#: 1427

REPORTED: 08/31/05 13:33

PROJECT #: W6422005

PROJECT: Lamb Island

Description: SW-1	Lab ID: 0001136-05	Sampled: 08/16/05 10:52
Matrix: Water	Sampled By: Client	Received: 08/17/05 10:20

Phosphorus, Ortho

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
1426-54-42	Orthophosphate as P	1.20	mg/L	EPA 365.1	1	0.0640	08/16/05	08/18/05	EL

Phosphorus, Total

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
7723-14-0	Phosphorus	1.7	mg/L	EPA 365.4	1	0.02	08/16/05	08/29/05	EL



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HSA Engineers & Scientists
1486-A Skees Road
West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 **FAX:** (561) 688-9005

LOG #: 0001136

COC#: 1427

REPORTED: 08/31/05 13:33

PROJECT #: W6422005

PROJECT: Lamb Island

Description: SW-6	Lab ID: 0001136-06	Sampled: 08/16/05 11:17
Matrix: Water	Sampled By: Client	Received: 08/17/05 10:20

Phosphorus, Ortho

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
1426-54-42	Orthophosphate as P	0.650	mg/L	EPA 365.1	1	0.0640	08/16/05	08/18/05	EL

Phosphorus, Total

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
7723-14-0	Phosphorus	0.9	mg/L	EPA 365.4	1	0.02	08/16/05	08/29/05	EL



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HSA Engineers & Scientists

1486-A Skees Road

West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 **FAX:** (561) 688-9005

LOG #: 0001136

COC#: 1427

REPORTED: 08/31/05 13:33

PROJECT #: W6422005

PROJECT: Lamb Island

Description: GW-1

Lab ID: 0001136-07

Sampled: 08/16/05 11:55

Matrix: Water

Sampled By: Client

Received: 08/17/05 10:20

Metals by EPA 6000/7000 Series Methods

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
7429-90-5	Aluminum	1.80	mg/L	EPA 6010B	1	0.10	08/16/05	08/19/05	EL

Phosphorus, Total

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
7723-14-0	Phosphorus	0.5	mg/L	EPA 365.4	1	0.02	08/16/05	08/29/05	EL



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HSA Engineers & Scientists

1486-A Skees Road

West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008

FAX: (561) 688-9005

LOG #: 0001136

COC#: 1427

REPORTED: 08/31/05 13:33

PROJECT #: W6422005

PROJECT: Lamb Island

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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HSA Engineers & Scientists

1486-A Skees Road

West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008

FAX: (561) 688-9005

LOG #: 0001136

COC#: 1427

REPORTED: 08/31/05 13:33

PROJECT #: W6422005

PROJECT: Lamb Island

Notes and Definitions

U = Below Laboratory Detection Limit



Palm Beach Environmental
Laboratories Inc.



Terry Horan
HSA Engineers & Scientists
West Palm Beach, FL 33411
(561) 688-9008
LOG #: 0001166

September 13, 2005

Enclosed is the laboratory report for your project. All results meet the requirements of the NELAC standards.

Please note the following:

- The samples were received as stated on the chain of custody, correctly labeled and at the proper temperature unless otherwise noted. The results contained in this report relate only to the items tested or to the samples as received by the laboratory.
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- Certain analyses are subcontracted to outside NELAC certified laboratories and are designated on your report.
- Precision & Accuracy will be provided when clients require a measure of estimated uncertainty.
- The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report Preliminary Data should not be used for regular purposes. Authorized signature(s) is provided on final report only

Please contact me if you have any questions or concerns regarding this report.

Sincerely,

Pamela Shore
QA Officer

EPA # FL01227
HRS# E86957
SRWMD# 48141
PBC # VC0000018083



Palm Beach Environmental
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CERTIFICATE OF ANALYSIS

HSA Engineers & Scientists
1486-A Skees Road
West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 **FAX:** (561) 688-9005

LOG #: 0001166

COC#: 1220

REPORTED: 09/13/05 11:26

PROJECT #: W6422005

PROJECT: Lamb Island

Description: SW-3	Lab ID: 0001166-01	Sampled: 08/30/05 10:00
Matrix: Water	Sampled By: Client	Received: 08/31/05 08:55

Phosphorus, Ortho

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
0426-54-42	Orthophosphate as P	0.91	mg/L	EPA 365.1	1	0.0640	08/31/05	08/31/05	EL

Phosphorus, Total

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
7723-04-1	Phosphorus	5.1	mg/L	EPA 365.4	1	0.02	08/31/05	08/31/05	EL



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HSA Engineers & Scientists
1486-A Skees Road
West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 **FAX:** (561) 688-9005

LOG #: 0001166

COC#: 1220

REPORTED: 09/13/05 11:26

PROJECT #: W6422005

PROJECT: Lamb Island

Description: SW-5	Lab ID: 0001166-02	Sampled: 08/30/05 10:45
Matrix: Water	Sampled By: Client	Received: 08/31/05 08:55

Phosphorus, Ortho

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
0426-54-42	Orthophosphate as P	2.11	mg/L	EPA 365.1	1	0.0640	08/31/05	08/31/05	EL

Phosphorus, Total

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
7723-04-1	Phosphorus	5.7	mg/L	EPA 365.4	1	0.02	08/31/05	08/31/05	EL



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HSA Engineers & Scientists
1486-A Skees Road
West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 **FAX:** (561) 688-9005

LOG #: 0001166

COC#: 1220

REPORTED: 09/13/05 11:26

PROJECT #: W6422005

PROJECT: Lamb Island

Description: SW-5 Dup	Lab ID: 0001166-03	Sampled: 08/30/05 10:50
Matrix: Water	Sampled By: Client	Received: 08/31/05 08:55

Phosphorus, Ortho

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
0426-54-42	Orthophosphate as P	2.11	mg/L	EPA 365.1	1	0.0640	08/31/05	08/31/05	EL

Phosphorus, Total

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
7723-04-1	Phosphorus	5.2	mg/L	EPA 365.4	1	0.02	08/31/05	08/31/05	EL



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HSA Engineers & Scientists
1486-A Skees Road
West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 **FAX:** (561) 688-9005

LOG #: 0001166

COC#: 1220

REPORTED: 09/13/05 11:26

PROJECT #: W6422005

PROJECT: Lamb Island

Description: SW-1	Lab ID: 0001166-04	Sampled: 08/30/05 11:21
Matrix: Water	Sampled By: Client	Received: 08/31/05 08:55

Phosphorus, Ortho

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
0426-54-42	Orthophosphate as P	2.31	mg/L	EPA 365.1	1	0.0640	08/31/05	08/31/05	EL

Phosphorus, Total

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
7723-04-1	Phosphorus	4.6	mg/L	EPA 365.4	1	0.02	08/31/05	08/31/05	EL



Palm Beach Environmental
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HSA Engineers & Scientists

1486-A Skees Road

West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 **FAX:** (561) 688-9005

LOG #: 0001166

COC#: 1220

REPORTED: 09/13/05 11:26

PROJECT #: W6422005

PROJECT: Lamb Island

Analyte	Result	PQL	%nits	Spike Level	Source Result	UREC	UREC Limits	RPD	RPD Limit	Notes
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HSA Engineers & Scientists

1486-A Skees Road

West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008

FAX: (561) 688-9005

LOG #: 0001166

COC#: 1220

REPORTED: 09/13/05 11:26

PROJECT #: W6422005

PROJECT: Lamb Island

Notes and Definitions

% = Below Laboratory Detection Limit



Palm Beach Environmental
Laboratories Inc.



Terry Horan
HSA Engineers & Scientists
West Palm Beach, FL 33411
(561) 688-9008
LOG #: 0001177

September 13, 2005

Enclosed is the laboratory report for your project. All results meet the requirements of the NELAC standards.

Please note the following:

- The samples were received as stated on the chain of custody, correctly labeled and at the proper temperature unless otherwise noted. The results contained in this report relate only to the items tested or to the samples as received by the laboratory.
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- Results for all liquid matrices are analyzed as received in the laboratory unless otherwise noted.
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- The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report Preliminary Data should not be used for regular purposes. Authorized signature(s) is provided on final report only

Please contact me if you have any questions or concerns regarding this report.

Sincerely,

Pamela Shore
QA Officer

EPA # FL01227
HRS# E86957
SRWMD# 48141
PBC # VC0000018083



Palm Beach Environmental
Laboratories Inc.

CERTIFICATE OF ANALYSIS

HSA Engineers & Scientists
1486-A Skees Road
West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008

FAX: (561) 688-9005

LOG #: 0001177

COC#: 1221

REPORTED: 09/13/05 11:49

PROJECT #: 1180

PROJECT: Lamb Island

Description: SW-3

Lab ID: 0001177-01

Sampled: 09/07/05 09:50

Matrix: Water

Sampled By: Client

Received: 09/08/05 08:10

Phosphorus, Ortho

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution Factor</u>	<u>Detection Limit</u>	<u>Extraction Date</u>	<u>Analysis Date</u>	<u>Analyst</u>
4206-92-20	Orthophosphate as P	0.91	mg/L	EPA 365.1	1	0.0640	09/08/05	09/09/05	EL

Phosphorus, Total

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution Factor</u>	<u>Detection Limit</u>	<u>Extraction Date</u>	<u>Analysis Date</u>	<u>Analyst</u>
5507-42-1	Phosphorus	2.6	mg/L	EPA 365.4	1	0.02	09/08/05	09/09/05	EL



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HSA Engineers & Scientists
1486-A Skees Road
West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 **FAX:** (561) 688-9005

LOG #: 0001177

COC#: 1221

REPORTED: 09/13/05 11:49

PROJECT #: 1180

PROJECT: Lamb Island

Description: SW-5	Lab ID: 0001177-02	Sampled: 09/07/05 10:21
Matrix: Water	Sampled By: Client	Received: 09/08/05 08:10

Phosphorus, Ortho

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
4206-92-20	Orthophosphate as P	0.11	mg/L	EPA 365.1	1	0.0640	09/08/05	09/09/05	EL

Phosphorus, Total

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
5507-42-1	Phosphorus	7.6	mg/L	EPA 365.4	1	0.02	09/08/05	09/09/05	EL



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1486-A Skees Road
West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 **FAX:** (561) 688-9005

LOG #: 0001177

COC#: 1221

REPORTED: 09/13/05 11:49

PROJECT #: 1180

PROJECT: Lamb Island

Description: SW-5 DUP

Lab ID: 0001177-03

Sampled: 09/07/05 10:27

Matrix: Water

Sampled By: Client

Received: 09/08/05 08:10

Phosphorus, Ortho

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution Factor</u>	<u>Detection Limit</u>	<u>Extraction Date</u>	<u>Analysis Date</u>	<u>Analyst</u>
4206-92-20	Orthophosphate as P	0.11	mg/L	EPA 365.1	1	0.0640	09/08/05	09/09/05	EL

Phosphorus, Total

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution Factor</u>	<u>Detection Limit</u>	<u>Extraction Date</u>	<u>Analysis Date</u>	<u>Analyst</u>
5507-42-1	Phosphorus	7.3	mg/L	EPA 365.4	1	0.02	09/08/05	09/09/05	EL



Palm Beach Environmental
Laboratories Inc.

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HSA Engineers & Scientists
1486-A Skees Road
West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 **FAX:** (561) 688-9005

LOG #: 0001177

COC#: 1221

REPORTED: 09/13/05 11:49

PROJECT #: 1180

PROJECT: Lamb Island

Description: SW-1	Lab ID: 0001177-04	Sampled: 09/07/05 11:11
Matrix: Water	Sampled By: Client	Received: 09/08/05 08:10

Phosphorus, Ortho

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
4206-92-20	Orthophosphate as P	0.11	mg/L	EPA 365.1	1	0.0640	09/08/05	09/09/05	EL

Phosphorus, Total

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution</u> <u>Factor</u>	<u>Detection</u> <u>Limit</u>	<u>Extraction</u> <u>Date</u>	<u>Analysis</u> <u>Date</u>	<u>Analyst</u>
5507-42-1	Phosphorus	2.4	mg/L	EPA 365.4	1	0.02	09/08/05	09/09/05	EL



Palm Beach Environmental
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CERTIFICATE OF ANALYSIS

HSA Engineers & Scientists

1486-A Skees Road

West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008

FAX: (561) 688-9005

LOG #: 0001177

COC#: 1221

REPORTED: 09/13/05 11:49

PROJECT #: 1180

PROJECT: Lamb Island

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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HSA Engineers & Scientists

1486-A Skees Road

West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008

FAX: (561) 688-9005

LOG #: 0001177

COC#: 1221

REPORTED: 09/13/05 11:49

PROJECT #: 1180

PROJECT: Lamb Island

Notes and Definitions

U = Below Laboratory Detection Limit



Palm Beach Environmental
Laboratories Inc.



September 21, 2005

Terry Horan
HSA Engineers & Scientists
West Palm Beach, FL 33411
(561) 688-9008
LOG #: 0001192

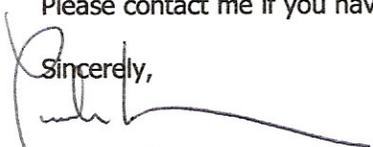
Enclosed is the laboratory report for your project. All results meet the requirements of the NELAC standards.

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- The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report Preliminary Data should not be used for regular purposes. Authorized signature(s) is provided on final report only

Please contact me if you have any questions or concerns regarding this report.

Sincerely,


Pamela Shore
QA Officer

EPA # FL01227
HRS# E86957
SRWMD# 48141
PBC # VC0000018083



Palm Beach Environmental
Laboratories Inc.

CERTIFICATE OF ANALYSIS

HSA Engineers & Scientists

1486-A Skees Road

West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 FAX: (561) 688-9005

LOG #: 0001192

COC#: 1123

REPORTED: 09/21/05 13:12

PROJECT #: W6422005

PROJECT: Lamb Island

Description: SW-3

Lab ID: 0001192-01

Sampled: 09/16/05 09:36

Matrix: Water

Sampled By: Client

Received: 09/16/05 14:30

Phosphorus, Ortho

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution Factor</u>	<u>Detection Limit</u>	<u>Extraction Date</u>	<u>Analysis Date</u>	<u>Analyst</u>
1426-54-4	Orthophosphate as P	0.634	mg/L	EPA 365.1	1	0.0640	09/16/05	09/16/05	EL

Phosphorus, Total

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution Factor</u>	<u>Detection Limit</u>	<u>Extraction Date</u>	<u>Analysis Date</u>	<u>Analyst</u>
7723-14-0	Phosphorus	2.6	mg/L	EPA 365.4	1	0.02	09/20/05	09/21/05	EL



Palm Beach Environmental
Laboratories Inc.

CERTIFICATE OF ANALYSIS

HSA Engineers & Scientists

1486-A Skees Road

West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 FAX: (561) 688-9005

LOG #: 0001192

COC#: 1123

REPORTED: 09/21/05 13:12

PROJECT #: W6422005

PROJECT: Lamb Island

Description: SW-5

Lab ID: 0001192-02

Sampled: 09/16/05 10:16

Matrix: Water

Sampled By: Client

Received: 09/16/05 14:30

Phosphorus, Ortho

CAS #	Parameter	Results	Units	Method	Dilution Factor	Detection Limit	Extraction Date	Analysis Date	Analyst
1426-54-4	Orthophosphate as P	1.95	mg/L	EPA 365.1	1	0.0640	09/16/05	09/16/05	EL

Phosphorus, Total

CAS #	Parameter	Results	Units	Method	Dilution Factor	Detection Limit	Extraction Date	Analysis Date	Analyst
7723-14-0	Phosphorus	2.0	mg/L	EPA 365.4	1	0.02	09/20/05	09/21/05	EL



Palm Beach Environmental
Laboratories Inc.

CERTIFICATE OF ANALYSIS

HSA Engineers & Scientists
1486-A Skees Road
West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 **FAX:** (561) 688-9005

LOG #: 0001192

COC#: 1123

REPORTED: 09/21/05 13:12

PROJECT #: W6422005

PROJECT: Lamb Island

Description: SW-5 Dup

Lab ID: 0001192-03

Sampled: 09/16/05 10:21

Matrix: Water

Sampled By: Client

Received: 09/16/05 14:30

Phosphorus, Ortho

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution Factor</u>	<u>Detection Limit</u>	<u>Extraction Date</u>	<u>Analysis Date</u>	<u>Analyst</u>
1426-54-4	Orthophosphate as P	1.95	mg/L	EPA 365.1	1	0.0640	09/16/05	09/16/05	EL

Phosphorus, Total

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution Factor</u>	<u>Detection Limit</u>	<u>Extraction Date</u>	<u>Analysis Date</u>	<u>Analyst</u>
7723-14-0	Phosphorus	2.5	mg/L	EPA 365.4	1	0.02	09/20/05	09/21/05	EL



Palm Beach Environmental
Laboratories Inc.

CERTIFICATE OF ANALYSIS

HSA Engineers & Scientists
1486-A Skees Road
West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 **FAX:** (561) 688-9005

LOG #: 0001192

COC#: 1123

REPORTED: 09/21/05 13:12

PROJECT #: W6422005

PROJECT: Lamb Island

Description: SW-1

Lab ID: 0001192-04

Sampled: 09/16/05 10:48

Matrix: Water

Sampled By: Client

Received: 09/16/05 14:30

Phosphorus, Ortho

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution Factor</u>	<u>Detection Limit</u>	<u>Extraction Date</u>	<u>Analysis Date</u>	<u>Analyst</u>
1426-54-4	Orthophosphate as P	1.87	mg/L	EPA 365.1	1	0.0640	09/16/05	09/16/05	EL

Phosphorus, Total

<u>CAS #</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Method</u>	<u>Dilution Factor</u>	<u>Detection Limit</u>	<u>Extraction Date</u>	<u>Analysis Date</u>	<u>Analyst</u>
7723-14-0	Phosphorus	2.4	mg/L	EPA 365.4	1	0.02	09/20/05	09/21/05	EL



Palm Beach Environmental
Laboratories Inc.

CERTIFICATE OF ANALYSIS

HSA Engineers & Scientists

1486-A Skees Road

West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 **FAX:** (561) 688-9005

LOG #: 0001192

COC#: 1123

REPORTED: 09/21/05 13:12

PROJECT #: W6422005

PROJECT: Lamb Island

Analyte	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-------	----------------	------------------	------	----------------	-----	--------------	-------



Palm Beach Environmental
Laboratories Inc.

CERTIFICATE OF ANALYSIS

HSA Engineers & Scientists

1486-A Skees Road

West Palm Beach, FL 33411

ATTN: Terry Horan

PHONE: (561) 688-9008 **FAX:** (561) 688-9005

LOG #: 0001192

COC#: 1123

REPORTED: 09/21/05 13:12

PROJECT #: W6422005

PROJECT: Lamb Island

Notes and Definitions

U = Below Laboratory Detection Limit



Jupiter Environmental Laboratories, Inc.

150 S. Old Dixie Highway

Jupiter, FL 33458

Phone: (561)575-0030

Fax: (561)575-4118

Wednesday, October 12, 2005

Terrance Horan
HSA Engineers & Scientists
1486-A Skees Rd
West Palm Beach, FL 33411

RE: Project: 514193
Project ID: 1180 Lamb Island

Dear Terrance Horan:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, September 30, 2005. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

The enclosed Chain of custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are analyzed as received in the laboratory unless otherwise noted.

Samples are disposed of after 30 days of their receipt by the laboratory unless archiving is requested in writing. The laboratory maintains the right to charge storage fees for archived samples.

Certain analyses are subcontracted to outside NELAC certified laboratories and are designated on the report as follows: BM/E86048, ESC/E87487, KNL/E84025, SL/E8409.

A Statement of Qualifiers are available upon request.

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

Sincerely,

Kacia Baldwin
kbaldwin@jupiterlabs.com

Enclosures

Page 1 of 7

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 514193

Project ID: 1180 Lamb Island

Lab ID	Sample ID	Matrix	Date Collected	Date Received
514193001	SW-3	Aqueous Liquid	9/30/2005 09:45	9/30/2005 17:11
514193002	SW-1	Aqueous Liquid	9/30/2005 12:41	9/30/2005 17:11
514193003	SW-1 Dup	Aqueous Liquid	9/30/2005 12:45	9/30/2005 17:11

REPORT OF LABORATORY ANALYSIS

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Jupiter Environmental Laboratories, Inc.

150 S. Old Dixie Highway

Jupiter, FL 33458

Phone: (561)575-0030

Fax: (561)575-4118

SAMPLE ANALYTE COUNT

Project: 514193

Project ID: 1180 Lamb Island

Lab ID	Sample ID	Method	Analytes Reported
514193001	SW-3	EPA 365.2	2
514193002	SW-1	EPA 365.2	2
514193003	SW-1 Dup	EPA 365.2	2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 514193

Project ID: 1180 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID: 514193001 Date Collected: 9/30/2005 09:45 Matrix: Aqueous Liquid
 Sample ID: SW-3 Date Received: 9/30/2005 17:11

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	15	mg/L	1.0	10			10/3/2005	ESC	7723-14-0		
------------	----	------	-----	----	--	--	-----------	-----	-----------	--	--

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	1.9	mg/L	0.25	10			10/1/2005	ESC			
-----------------	-----	------	------	----	--	--	-----------	-----	--	--	--

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ANALYTICAL RESULTS

Project: 514193

Project ID: 1180 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID: 514193002 Date Collected: 9/30/2005 12:41 Matrix: Aqueous Liquid
Sample ID: SW-1 Date Received: 9/30/2005 17:11

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	1.9	mg/L	0.10	1			10/3/2005	ESC	7723-14-0		
------------	-----	------	------	---	--	--	-----------	-----	-----------	--	--

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	2.0	mg/L	0.25	10			10/1/2005	ESC			
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ANALYTICAL RESULTS

Project: 514193

Project ID: 1180 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID: 514193003 Date Collected: 9/30/2005 12:45 Matrix: Aqueous Liquid
 Sample ID: SW-1 Dup Date Received: 9/30/2005 17:11

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	2.0	mg/L	0.10	1			10/7/2005	ESC	7723-14-0		
------------	-----	------	------	---	--	--	-----------	-----	-----------	--	--

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	1.4	mg/L	0.10	4			10/6/2005	ESC		Q	
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ANALYTICAL RESULTS QUALIFIERS

Project: 514193

Project ID: 1180 Lamb Island

PARAMETER QUALIFIERS

- Q Sample held beyond the accepted holding time. Sample was originally run within holding time. QC failed. Rerun reported here was run outside of holding time.

REPORT OF LABORATORY ANALYSIS

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Jupiter Environmental Laboratories, Inc.

150 S. Old Dixie Highway

Jupiter, FL 33458

Phone: (561)575-0030

Fax: (561)575-4118

Friday, October 28, 2005

David Hightower
HSA Engineers & Scientists
1486-A Skees Road
West Palm Beach, FL 33411

RE: Project: 514349
Project ID: Lamb Island Dairy

Dear David Hightower:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, October 21, 2005. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

The enclosed Chain of custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are analyzed as received in the laboratory unless otherwise noted.

Samples are disposed of after 30 days of their receipt by the laboratory unless archiving is requested in writing. The laboratory maintains the right to charge storage fees for archived samples.

Certain analyses are subcontracted to outside NELAC certified laboratories and are designated on the report as follows: BM/E86048, ESC/E87487, KNL/E84025, SL/E8409.

A Statement of Qualifiers are available upon request.

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

Sincerely,

Kacia Baldwin
kbaldwin@jupiterlabs.com

Enclosures

Page 1 of 6

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 514349

Project ID: Lamb Island Dairy

Lab ID	Sample ID	Matrix	Date Collected	Date Received
514349001	SW-1	Aqueous Liquid	10/21/2005 12:00	10/21/2005 13:00
514349002	SW-3	Aqueous Liquid	10/21/2005 10:35	10/21/2005 13:00
514349003	SW-3(DUP)	Aqueous Liquid	10/21/2005 10:40	10/21/2005 13:00

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Jupiter Environmental Laboratories, Inc.

150 S. Old Dixie Highway

Jupiter, FL 33458

Phone: (561)575-0030

Fax: (561)575-4118

SAMPLE ANALYTE COUNT

Project: 514349

Project ID: Lamb Island Dairy

Lab ID	Sample ID	Method	Analytes Reported
514349001	SW-1	EPA 365.2	2
514349002	SW-3	EPA 365.2	2
514349003	SW-3(DUP)	EPA 365.2	2

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ANALYTICAL RESULTS

Project: 514349

Project ID: Lamb Island Dairy

Solid results are reported on a dry weight basis.

Lab ID: 514349001 Date Collected: 10/21/2005 12:00 Matrix: Aqueous Liquid
 Sample ID: SW-1 Date Received: 10/21/2005 13:00

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	2.3	mg/L	0.50	1			10/25/2005	SM	7723-14-0		
------------	-----	------	------	---	--	--	------------	----	-----------	--	--

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	1.7	mg/L	0.0050	10			10/21/2005	SS			
-----------------	-----	------	--------	----	--	--	------------	----	--	--	--

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 514349

Project ID: Lamb Island Dairy

Solid results are reported on a dry weight basis.

Lab ID: 514349002 Date Collected: 10/21/2005 10:35 Matrix: Aqueous Liquid
 Sample ID: SW-3 Date Received: 10/21/2005 13:00

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	6.5	mg/L	1.3	1			10/25/2005	SM	7723-14-0		
------------	-----	------	-----	---	--	--	------------	----	-----------	--	--

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	2.2	mg/L	0.0050	1			10/21/2005	SS			
-----------------	-----	------	--------	---	--	--	------------	----	--	--	--

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 514349

Project ID: Lamb Island Dairy

Solid results are reported on a dry weight basis.

Lab ID: 514349003 Date Collected: 10/21/2005 10:40 Matrix: Aqueous Liquid
Sample ID: SW-3(DUP) Date Received: 10/21/2005 13:00

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	5.3	mg/L	1.3	1			10/25/2005	SM	7723-14-0		
------------	-----	------	-----	---	--	--	------------	----	-----------	--	--

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	2.2	mg/L	0.0050	10			10/21/2005	SS			
-----------------	-----	------	--------	----	--	--	------------	----	--	--	--

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Jupiter Environmental Laboratories, Inc.

150 S. Old Dixie Highway

Jupiter, FL 33458

Phone: (561)575-0030

Fax: (561)575-4118

Wednesday, November 02, 2005

Terrance Horan
HSA Engineers & Scientists
1486-A Skees Rd
West Palm Beach, FL 33411

RE: Project: 514360
Project ID: 1180 Lamb Island

Dear Terrance Horan:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, October 28, 2005. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

The enclosed Chain of custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are analyzed as received in the laboratory unless otherwise noted.

Samples are disposed of after 30 days of their receipt by the laboratory unless archiving is requested in writing. The laboratory maintains the right to charge storage fees for archived samples.

Certain analyses are subcontracted to outside NELAC certified laboratories and are designated on the report as follows: BM/E86048, ESC/E87487, KNL/E84025, SL/E8409.

A Statement of Qualifiers are available upon request.

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

Sincerely,

Kacia Baldwin
kbaldwin@jupiterlabs.com

Enclosures

Page 1 of 7

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 514360

Project ID: 1180 Lamb Island

Lab ID	Sample ID	Matrix	Date Collected	Date Received
514360001	SW-3	Aqueous Liquid	10/28/2005 10:00	10/28/2005 13:00
514360002	SW-5	Aqueous Liquid	10/28/2005 10:42	10/28/2005 13:00
514360003	SW-1	Aqueous Liquid	10/28/2005 11:21	10/28/2005 13:00
514360004	SW- 1 DUP	Aqueous Liquid	10/28/2005 11:25	10/28/2005 13:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 514360

Project ID: 1180 Lamb Island

Lab ID	Sample ID	Method	Analytes Reported
514360001	SW-3	EPA 200.8P	1
		EPA 365.2	1
514360002	SW-5	EPA 200.8P	1
		EPA 365.2	1
514360003	SW-1	EPA 200.8P	1
		EPA 365.2	1
514360004	SW- 1 DUP	EPA 200.8P	1
		EPA 365.2	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 514360

Project ID: 1180 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID: 514360001 Date Collected: 10/28/2005 10:00 Matrix: Aqueous Liquid
 Sample ID: SW-3 Date Received: 10/28/2005 13:00

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	2.1	mg/L		1			10/28/2005	SS			
-----------------	-----	------	--	---	--	--	------------	----	--	--	--

Metals

Preparation Method: EPA 3010

EPA 200.8P Phosphorus by ICP/MS (W) List

Phosphorus	1.7	mg/L		1	11/2/2005	ZS	11/2/2005	ZS	7723-14-0		
------------	-----	------	--	---	-----------	----	-----------	----	-----------	--	--

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ANALYTICAL RESULTS

Project: 514360

Project ID: 1180 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID: 514360002	Date Collected: 10/28/2005 10:42	Matrix: Aqueous Liquid
Sample ID: SW-5	Date Received: 10/28/2005 13:00	

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	0.79	mg/L		1			10/28/2005	SS			
-----------------	------	------	--	---	--	--	------------	----	--	--	--

Metals

Preparation Method: EPA 3010

EPA 200.8P Phosphorus by ICP/MS (W) List

Phosphorus	0.63	mg/L		1	11/2/2005	ZS	11/2/2005	ZS	7723-14-0		
------------	------	------	--	---	-----------	----	-----------	----	-----------	--	--

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ANALYTICAL RESULTS

Project: 514360

Project ID: 1180 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID: 514360003 Date Collected: 10/28/2005 11:21 Matrix: Aqueous Liquid
 Sample ID: SW-1 Date Received: 10/28/2005 13:00

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	1.7	mg/L		1			10/28/2005			SS	
-----------------	-----	------	--	---	--	--	------------	--	--	----	--

Metals

Preparation Method: EPA 3010

EPA 200.8P Phosphorus by ICP/MS (W) List

Phosphorus	1.3	mg/L		1	11/2/2005	ZS	11/2/2005	ZS	7723-14-0		
------------	-----	------	--	---	-----------	----	-----------	----	-----------	--	--

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ANALYTICAL RESULTS

Project: 514360

Project ID: 1180 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID: 514360004 Date Collected: 10/28/2005 11:25 Matrix: Aqueous Liquid
Sample ID: SW- 1 DUP Date Received: 10/28/2005 13:00

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	1.7	mg/L		1			10/28/2005	SS			
-----------------	-----	------	--	---	--	--	------------	----	--	--	--

Metals

Preparation Method: EPA 3010

EPA 200.8P Phosphorus by ICP/MS (W) List

Phosphorus	1.3	mg/L		1	11/2/2005	ZS	11/2/2005	ZS	7723-14-0		
------------	-----	------	--	---	-----------	----	-----------	----	-----------	--	--

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APPENDIX B

SUNNY 7/13/05

Lamb Island Monitoring PLAN

SW-3 STAFF READING 38.8
Temp - 27.13 DO - 1.06 $\frac{mg}{L}$ ORP - 7.3
Cond - .247 PH - 5.44

NOTE WATER LEVEL EVEN WITH BOARDS
(NO FLOW) COLLECTED SAMPLE @ 1125 FOR TP + ORTHOP

SW-4 FLOODED UNABLE TO SAMPLE

SW-5 STAFF READING 38.05
Temp - 33.10 DO - 3.32 $\frac{mg}{L}$ ORP - 37.5
Cond - .133 PH - 6.47

WATER LOOKS LIKE ICE TEA (COLOR)
COLLECTED SAMPLE @ 1207 FOR TP + ORTHOP
(FLOWING GOOD) WATER HAS AN INCH
OVERFLOW OVER BOARDS (TOOK PHOTOS)

SW-1 STAFF READING 42.5
Temp - 30.02 DO - 1.12 $\frac{mg}{L}$ ORP - 39.1
Cond - .177 PH - 6.13

COLLECTED SAMPLE @ 1237 FOR TP + ORTHOP (NO FLOW)

SUNNY

7/13/05

CONTINUE

SW-2

Temp - 26.78

DO - 0.72 $\frac{mg}{L}$ ORP - -148.3

Cond - .418

PH - 6.54

SAMPLE COLLECTED @ 1302 FOR TP+ORTHO P
(NO FLOW)

NOTE THE GRASS HAS
GOT TALL IS ME!!!

SUNNY & HOT

8/16/05

RON

Lamb Island Monitoring Plan

SW-3 STAFF READING 38.7 (NO FLOW)

Temp - 26.62

DO - 6.75 $\frac{mg}{L}$ ORP - 4.3

Cond - .036

PH - 5.25

NOTE WATER CHOKED OUT WITH ALGAE.

COLLECTED SAMPLE @ 0930

COLLECTED EB @ 0935

SW-4 UNABLE TO SAMPLE STILL FLOODED

SW-5 STAFF READING 37.6 (NO FLOW)

NOTE RED COLOR FILM ON TOP OF WATER (TOOK PHOTOS)

Temp - 30.96

DO - 3.86 $\frac{mg}{L}$ ORP - 10.6

Cond - .153

PH - 6.49

COLLECTED SAMPLE @ 1015

COLLECTED DUPLICATE @ 1020

SW-1 STAFF READING @ 42

Temp - 31.08

DO - 2.34 $\frac{mg}{L}$ ORP - 12.8

Cond - .294

PH - 6.73

COLLECTED SAMPLE @ 1052 (NO FLOW)

NOTE GRASS IS EXTREMELY HIGH !!

Sunny + Hot

8/16/05

ROW

CONTINUE

SW-6 Pond 3

Temp - 33.00 DO - 4.86 $\frac{mg}{L}$ ORP - 20.1

Cond - .928 PH - 7.76

Collected Sample @ 11:17

GW-1

Info on Groundwater Sampling Log

SW-2 UNABLE to sample (dry by
culvert)

SUNNY + Hot 93°

8/30/05

RON

Lamb Island Monitoring Plan

SW-3 STAFF READING 38.6 (NO FLOW)

Temp - 27.71 DO - 1.82 $\frac{mg}{L}$ ORP - 28.2

COND - .458 PH - 6.44

Collected sample @ 1000 for TP + ORTHO P

SW-4 UNABLE to sample flooded

SW-5 STAFF READING 37.5 (NO FLOW)

Temp - 30.99 DO - 2.99 $\frac{mg}{L}$ ORP - 2.2

COND - .160 PH - 6.67

Collected sample @ 1045 plus duplicate
(NO FLOW) sample for (TP + ORTHO P).

SW-1 STAFF READING 41.7 (NO FLOW)

Temp - 32.47 DO - 7.70 $\frac{mg}{L}$ ORP - 2.4

COND - .296 PH - 7.20

Collected sample @ 1121 for TP + ORTHO

SW-2 UNABLE to sample it WAS
DRY NEXT to the CULVERT.

RON

9/7/05

Light RAIN
Cloudy

Lamb Island Monitoring Plan

SW-3 STAFF READING 38.5 (NO FLOW)

Temp - 27.81 DO - 1.94 $\frac{mg}{L}$ ORP - ~~47.2~~ 18.1

Cond - .633 PH - ~~6.65~~ 6.68

Collected sample @ 0950 for TP + ORTHO P

SW-5 STAFF READING 37.3 (NO FLOW)

Temp - 27.87 DO - 4.35 $\frac{mg}{L}$ ORP - 20.9

Cond - .185 PH - 6.65

Collected sample @ 1021 for TP + ORTHO P

Duplicate @ 1027 for TP + ORTHO P

SW-1 STAFF READING 41.3 (NO FLOW)

Temp - 28.36 DO - 3.09 $\frac{mg}{L}$ ORP - 12.6

Cond - .279 PH - 6.90

Collected sample @ 1111 for TP + ORTHO P

SUNNY + HOT

ROW

Lamb Island Monitoring Plan

9/16/05

SW-3 STAFF READING 38.3 (NO FLOW)

Temp - 24.51 DO - 3.19 $\frac{mg}{L}$ ORP - 50.9

Cond - .556 PH - 6.33

Collected sample @ 0936 for TP + ORTHO P

WATER CHOKED OUT WITH ALGAE

SW-4 THIS ONE USE TO BE FLOODED

ALL OF THE TIME *NOTE* TODAY 9/16/05

IT WAS TOTALLY DRY (TOOK PHOTOS)

SW-5 STAFF READING 37 (NO FLOW)

Temp - 28.09 DO - 2.60 $\frac{mg}{L}$ ORP - -0.3

Cond - .122 PH - 6.10

Collected sample @ ~~1021~~¹⁰¹⁶_{R.D.} + DUPLICATE @ 1021
FOR TP + ORTHO P

SW-1 STAFF READING 41.2 (NO FLOW)

Temp - 30.81 DO - 3.79 $\frac{mg}{L}$ ORP - 57.7

Cond - .225 PH - 6.25

Collected sample @ 1048

SW-2 DRY (NO SAMPLE)

Cloudy

Low

Lamb Island Monitoring Plan 9/30/05

SW-3 STAFF READING 38 (NO FLOW)

Temp - 24.73

DO - 4.55 $\frac{mg}{L}$ ORP - -7.4

Cond - .530

PH - 6.35

Collected Sample @ 0945 for TP + ORTHOP

SW-4 too dry NO SAMPLE (NO FLOW)
took photos

SW-5 too dry (took photos) (NO FLOW)
(STAFF PLATES OUT OF WATER, PUDDLE) CAN'T READ

SW-2 too dry (NO SAMPLE) Photos

SW-1 STAFF READING 40.8 (NO FLOW)

Temp - 26.67

DO - 2.57 $\frac{mg}{L}$

ORP - -13.4

Cond - .496

PH - 6.81

Collected sample @ 1241 for TP + ORTHOP

Duplicate @ 1245 for TP + ORTHOP

took photos

Weather: Cloudy

Lamb Island Dairy Monitoring ^{AC} 10/21/05

SW-3

Staff Reading - 38 (No-flow)

Temp = 23.63°C

Cond. = 6.388 umhos/cm

DO = 2.60 mg/L

pH = 5.46

collected sample @ 10:35 for Total P and ortho P

collected DUP @ 10:40 " " "

SW-4 - Too Dry (No Flow) ∴ No Sample

SW-5 - " " "

staff gauge out of H₂O can't read (No standing water)

SW-2 - Too Dry

SW-1 (No flow)

Temp = 27.62°C

Cond. = 566 umhos/cm

DO = 7.94 mg/L

pH = ~~7.03~~ 7.03

Org = 70.3

SUNNY

Ron

Lamb Island Monitoring Plan 10/28/05

SW-3 STAFF READING 38.9' (NO FLOW)

CHOKED OUT WITH ALGAE

TEMP - 18.42

DO - 4.47 $\frac{\text{mg}}{\text{L}}$ ORP - 44.8

COND - .528

PH - 5.87

COLLECTED SAMPLE @ 10:00 FOR TP + ORTHOP

SW-4 UNABLE TO SAMPLE (TOO FLOODED)

SW-5 STAFF READING 38' (SLIGHT FLOW)

1/8 OF AN INCH OVERFLOW OVER TOP OF BOARDS

TEMP - 20.85

PH - 5.30

ORP - 17.2

COND - .102

DO - 4.96 $\frac{\text{mg}}{\text{L}}$

COLLECTED SAMPLE @ 1042 FOR TP + ORTHOP

SW-1 + SW-1 DUPLICATE STAFF READING 41.7'

TEMP - 18.93

PH - 5.76

ORP - 95.2

COND - .175

DO - 0.99 $\frac{\text{mg}}{\text{L}}$

COLLECTED SAMPLE @ 1121 FOR TP + ORTHOP + DUPLICATE

SW-2 NO WATER NEAR CULVERT