

## **APPENDIX B**

**SEDIMENT CHEMISTRY @ 147 AND 93**

J.E.L. Log # 513154

LAB USE ONLY

# Chain of Custody Record

ORIGINAL

BAR CODE

## Jupiter Environmental Laboratories

Company Name MadriD Engineering Group, Inc.  
 Address 175 E. Summerlin St.  
 City Bartow State FL Zip 33830  
 Sampling Site Address Lake Hancock

Attn: Lacey MadriD Fax/Email 863.533.8997

Project Name Lake Hancock Project # 4264

Sampler Name/Signature Ronald O. Wilson (Ronald O. Wilson)

### LAB ANALYSIS

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	Matrix Cont	Parameters			Total M	Total P	TCLP metals	Field Filtered (Y/N)	Integrity OK (Y/N)	Comments
						Press Codes	Relinquished by	Date						
1	147 Top	3/23/05	8:45am	S	3	X	X	X						
2	147 Mid				3	X	X	X						
3	147 Bottom				3	X	X	X						
4	147 Composite				2	X			X					
5	93 Top		9:00am		3	X	X	X						
6	93 Mid				3	X	X	X						
7	93 Bottom				3	X	X	X						
8														
9														
0														

Matrix Codes\*\*  
 A- none I- Ice  
 B- HNO<sub>3</sub> O- Other  
 C- H<sub>2</sub>SO<sub>4</sub> M- MeOH  
 D- NaOH  
 E- HCl

QA/QC level with report  
 None 1 2 3 See price guide for applicable fees

T.A.T. Request FDEP \_\_\_\_\_  
 Standard SFWMD \_\_\_\_\_  
 Rush Date Required \_\_\_\_\_

Temp Control: \_\_\_\_\_ °C

Jupiter Environmental Laboratories, Inc.  
 150 Old Dixie Highway, Jupiter, FL 33458



Jupiter Environmental Laboratories, Inc.  
150 S. Old Dixie Highway  
Jupiter, FL 33458  
Phone: (561)575-0030  
Fax: (561)575-4118

Wednesday, April 13, 2005

Larry Madrid  
Madrid Engineering Group, Inc  
175 E. Summerlin St.  
Bartow, FL 33830

RE: Project: 513154  
Project ID: 4261

Dear Larry Madrid:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, March 23, 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,

A handwritten signature in black ink, appearing to read "Glynda Russell".

Glynda Russell for  
Edward Dabrea  
edabrea@jupiterlabs.com

Enclosures

Page 1 of 10

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 513154

Project ID: 4261

Lab ID	Sample ID	Matrix	Date Collected	Date Received
513154001	147 TOP	Soil / Sediment	3/22/2005 08:45	3/23/2005 08:30
513154002	147 MID	Soil / Sediment	3/22/2005 08:45	3/23/2005 08:30
513154003	147 BOTTOM	Soil / Sediment	3/22/2005 08:45	3/23/2005 08:30
513154004	147(COMP)	Soil / Sediment	3/22/2005 08:45	3/23/2005 08:30
513154005	93 TOP	Soil / Sediment	3/22/2005 09:00	3/23/2005 08:30
513154006	93 MID	Soil / Sediment	3/22/2005 09:00	3/23/2005 08:30
513154007	93 BOTTOM	Soil / Sediment	3/22/2005 09:00	3/23/2005 08:30

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: 513154

Project ID: 4261

Lab ID	Sample ID	Method	Analytes Reported
513154001	147 TOP	Calculation	1
513154002	147 MID	SW-846 9056	2
		Calculation	1
513154003	147 BOTTOM	SW-846 9056	2
		Calculation	1
513154004	147(COMP)	SW-846 9056	2
513154005	93 TOP	EPA 6020 (TCLP)	8
		Calculation	1
513154006	93 MID	SW-846 9056	2
		Calculation	1
513154007	93 BOTTOM	SW-846 9056	2
		Calculation	1
		SW-846 9056	2

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: 513154

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513154001	Date Collected:	3/22/2005 08:45	Matrix:	Soil / Sediment
<b>Sample ID:</b> 147 TOP	Date Received:	3/23/2005 08:30		

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

**General Chemistry**

**Phosphorus by SW-846 9056 [REF] (S) List**

Phosphorus	130	mg/Kg	15	1			3/25/2005	ESC	7723-14-0		
------------	-----	-------	----	---	--	--	-----------	-----	-----------	--	--

**Ortho Phosphate, SW-846 9056 [REF] (S) List**

Ortho Phosphate	97	mg/Kg	38	10			3/24/2005	ESC			
-----------------	----	-------	----	----	--	--	-----------	-----	--	--	--

**Total Nitrogen [REF](S) List**

Total Nitrogen	17000	mg/Kg	3800	1			3/31/2005	ESC	7727-37-9(T)		
----------------	-------	-------	------	---	--	--	-----------	-----	--------------	--	--

Date: 04/13/2005

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**REPORT OF LABORATORY ANALYSIS**

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## ANALYTICAL RESULTS

Project: 513154

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513154002	Date Collected: 3/22/2005 08:45	Matrix: Soil / Sediment
<b>Sample ID:</b> 147 MID	Date Received: 3/23/2005 08:30	

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

**General Chemistry**

**Phosphorus by SW-846 9056 [REF] (S) List**

Phosphorus	35 mg/Kg		8.1	1			3/25/2005	ESC	7723-14-0
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**Ortho Phosphate, SW-846 9056 [REF] (S) List**

Ortho Phosphate	U mg/Kg		20	10			3/24/2005	ESC	
-----------------	---------	--	----	----	--	--	-----------	-----	--

**Total Nitrogen [REF](S) List**

Total Nitrogen	U mg/Kg		410	1			3/31/2005	ESC	7727-37-9(T)
----------------	---------	--	-----	---	--	--	-----------	-----	--------------

Date: 04/13/2005

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**ANALYTICAL RESULTS**

Project: 513154

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513154003	Date Collected:	3/22/2005 08:45	Matrix:	Soil / Sediment
<b>Sample ID:</b> 147 BOTTOM	Date Received:	3/23/2005 08:30		

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

**General Chemistry**

**Phosphorus by SW-846 9056 [REF] (S) List**

Phosphorus	6.6	mg/Kg	4.4	1			3/25/2005	ESC	7723-14-0		
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**Ortho Phosphate, SW-846 9056 [REF] (S) List**

Ortho Phosphate	U	mg/Kg	11	10			3/24/2005	ESC			
-----------------	---	-------	----	----	--	--	-----------	-----	--	--	--

**Total Nitrogen [REF](S) List**

Total Nitrogen	4900	mg/Kg	2200	1			3/31/2005	ESC	7727-37-9(T)		
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Date: 04/13/2005

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**ANALYTICAL RESULTS**

Project: 513154

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513154004	Date Collected: 3/22/2005 08:45	Matrix: Soil / Sediment
<b>Sample ID:</b> 147(COMP)	Date Received: 3/23/2005 08:30	

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

**Metals**

**EPA 6020 Metals SCAN by ICP/MS (TCLP) List**

Chromium		U mg/L	0.0010	1			3/24/2005	ZS	7440-47-3		
Arsenic		U mg/L	0.0028	1			3/24/2005	ZS	7440-38-2		
Selenium		U mg/L	0.0010	1			3/24/2005	ZS	7782-49-2		
Silver		U mg/L	0.0010	1			3/24/2005	ZS	7440-22-4		
Cadmium		U mg/L	0.00020	1			3/24/2005	ZS	7440-43-9		
Barium	0.024	mg/L	0.00010	1			3/24/2005	ZS	7440-39-3		
Mercury		U mg/L	0.0010	1			3/24/2005	ZS	7439-97-6		
Lead		U mg/L	0.0010	1			3/24/2005	ZS	7439-92-1		

Date: 04/13/2005

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## ANALYTICAL RESULTS

Project: 513154

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513154005	Date Collected: 3/22/2005 09:00	Matrix: Soil / Sediment
<b>Sample ID:</b> 93 TOP	Date Received: 3/23/2005 08:30	

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

### General Chemistry

#### Phosphorus by SW-846 9056 [REF] (S) List

Phosphorus	160 mg/Kg	17	1				3/25/2005	ESC	7723-14-0		
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#### Ortho Phosphate, SW-846 9056 [REF] (S) List

Ortho Phosphate	140 mg/Kg	43	10				3/24/2005	ESC			
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#### Total Nitrogen [REF](S) List

Total Nitrogen	21000 mg/Kg	8700	1				3/31/2005	ESC	7727-37-9(T)		
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Date: 04/13/2005

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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 513154

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513154006	<b>Date Collected:</b> 3/22/2005 09:00	<b>Matrix:</b> Soil / Sediment
<b>Sample ID:</b> 93 MID	<b>Date Received:</b> 3/23/2005 08:30	

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

**General Chemistry**

**Phosphorus by SW-846 9056 [REF] (S) List**

Phosphorus	79 mg/Kg		10	1			3/25/2005	ESC	7723-14-0		
------------	----------	--	----	---	--	--	-----------	-----	-----------	--	--

**Ortho Phosphate, SW-846 9056 [REF] (S) List**

Ortho Phosphate	44 mg/Kg		26	10			3/24/2005	ESC			
-----------------	----------	--	----	----	--	--	-----------	-----	--	--	--

**Total Nitrogen [REF](S) List**

Total Nitrogen	12000 mg/Kg		3100	1			3/31/2005	ESC	7727-37-9(T)		
----------------	-------------	--	------	---	--	--	-----------	-----	--------------	--	--

Date: 04/13/2005

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### ANALYTICAL RESULTS

Project: 513154

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513154007	Date Collected: 3/22/2005 09:00	Matrix: Soil / Sediment
<b>Sample ID:</b> 93 BOTTOM	Date Received: 3/23/2005 08:30	

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

**General Chemistry**

**Phosphorus by SW-846 9056 [REF] (S) List**

Phosphorus	22	mg/Kg	8.5	1			3/25/2005	ESC	7723-14-0		
------------	----	-------	-----	---	--	--	-----------	-----	-----------	--	--

**Ortho Phosphate, SW-846 9056 [REF] (S) List**

Ortho Phosphate	U	mg/Kg	21	10			3/24/2005	ESC			
-----------------	---	-------	----	----	--	--	-----------	-----	--	--	--

**Total Nitrogen [REF](S) List**

Total Nitrogen	9400	mg/Kg	2600	1			3/31/2005	ESC	7727-37-9(T)		
----------------	------	-------	------	---	--	--	-----------	-----	--------------	--	--

Date: 04/13/2005

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**REPORT OF LABORATORY ANALYSIS**

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## **APPENDIX B**

**SEDIMENT CHEMISTRY @ 151**

# Jupiter Environmental Laboratories

## Chain of Custody Record

LAB USE ONLY

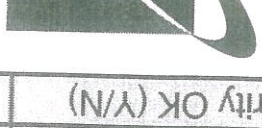
J.E.L. Log # 513152  
 P.O. #  
 Quote#

Company Name Madrio Engineering Group, Inc.  
 Address 175 E. Summerlin St.  
 City Bartow State FL Zip 33830  
 Sampling Site Address Lake Hancock

Alt#: Larry Madrio Fax/Email 863.533.8997  
 Project Name Lake Hancock Project # 4264  
 Sampler Name/Signature Ronald P. Wilson (Ronald P. Wilson)

### LAB ANALYSIS

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Parameters				Integrity OK (Y/N)	Field Filtered (Y/N)	Comments
						Total N	Total P	TCLP Metals	Other			
1	151 TOP	3/26/05	11:15 AM	S	3	X	X					
2	151 Mid				3	X	X					
3	151 Bottom				3	X	X					
4	151 Composite				2	X		X				
5												
6												
7												
8												
9												
0												



Matrix Codes\*  
 S Soil/Solid Sediment  
 GW Ground Water  
 WW Waste Water  
 DW Drinking Water  
 SW Surface Water  
 SL Sludge  
 O Other (Please Specify)

Pres Codes\*\*  
 A- none  
 B- HNO<sub>3</sub>  
 C- H<sub>2</sub>SO<sub>4</sub>  
 D- NaOH  
 E- HCl  
 I- Ice  
 O- Other  
 M- MeOH

QA/QC level with report  
 None 1 2 3 See price guide for applicable fees  
 T.A.T. Request FDEP \_\_\_\_\_  
 Standard SFWMD \_\_\_\_\_  
 Flush Date Required \_\_\_\_\_ °C  
 Temp Control: \_\_\_\_\_

Relinquished by \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_  
 Received by [Signature]  
 Date 3/23 Time 830

ORIGINAL



Jupiter Environmental Laboratories, Inc.  
150 S. Old Dixie Highway  
Jupiter, FL 33458  
Phone: (561)575-0030  
Fax: (561)575-4118

Wednesday, April 13, 2005

Larry Madrid  
Madrid Engineering Group, Inc  
175 E. Summerlin St.  
Bartow, FL 33830

RE: Project: 513152  
Project ID: 4261

Dear Larry Madrid:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, March 23, 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,

A handwritten signature in black ink, appearing to read "Glynda Russell", is written over a light blue circular stamp.

Glynda Russell for  
Edward Dabrea  
edabrea@jupiterlabs.com

Enclosures

Page 1 of 7

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 513152

Project ID: 4261

Lab ID	Sample ID	Matrix	Date Collected	Date Received
513152001	151 TOP	Soil / Sediment	3/22/2005 11:15	3/23/2005 08:30
513152002	151 MID	Soil / Sediment	3/22/2005 11:15	3/23/2005 08:30
513152003	151 BOTTOM	Soil / Sediment	3/22/2005 11:15	3/23/2005 08:30
513152004	151(COMP)	Soil / Sediment	3/22/2005 11:15	3/23/2005 08:30

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**SAMPLE ANALYTE COUNT**

Project: 513152

Project ID: 4261

Lab ID	Sample ID	Method	Analytes Reported
513152001	151 TOP	Calculation	1
		SW-846 9056	2
513152002	151 MID	Calculation	1
		SW-846 9056	2
513152003	151 BOTTOM	Calculation	1
		SW-846 9056	2
513152004	151(COMP)	EPA 6020 (TCLP)	8

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS**

Project: 513152

Project ID: 4261

Solid results are reported on a dry weight basis.

Lab ID: 513152001	Date Collected: 3/22/2005 11:15	Matrix: Soil / Sediment
Sample ID: 151 TOP	Date Received: 3/23/2005 08:30	

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

**General Chemistry**

**Phosphorus by SW-846 9056 [REF] (S) List**

Phosphorus	210	mg/Kg	30	1			3/25/2005	ESC	7723-14-0		
------------	-----	-------	----	---	--	--	-----------	-----	-----------	--	--

**Ortho Phosphate, SW-846 9056 [REF] (S) List**

Ortho Phosphate	110	mg/Kg	76	10			3/24/2005	ESC			
-----------------	-----	-------	----	----	--	--	-----------	-----	--	--	--

**Total Nitrogen [REF](S) List**

Total Nitrogen	27000	mg/Kg	9100	1			3/31/2005	ESC	7727-37-9(T)		
----------------	-------	-------	------	---	--	--	-----------	-----	--------------	--	--

Date: 04/13/2005

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### ANALYTICAL RESULTS

Project: 513152

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513152002	Date Collected:	3/22/2005 11:15	Matrix:	Soil / Sediment
<b>Sample ID:</b> 151 MID	Date Received:	3/23/2005 08:30		

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

**General Chemistry**

**Phosphorus by SW-846 9056 [REF] (S) List**

Phosphorus	180	mg/Kg	18	1			3/25/2005	ESC	7723-14-0		
------------	-----	-------	----	---	--	--	-----------	-----	-----------	--	--

**Ortho Phosphate, SW-846 9056 [REF] (S) List**

Ortho Phosphate	100	mg/Kg	46	10			3/24/2005	ESC			
-----------------	-----	-------	----	----	--	--	-----------	-----	--	--	--

**Total Nitrogen [REF](S) List**

Total Nitrogen	15000	mg/Kg	5500	1			3/31/2005	ESC	7727-37-9(T)		
----------------	-------	-------	------	---	--	--	-----------	-----	--------------	--	--

Date: 04/13/2005

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**ANALYTICAL RESULTS**

Project: 513152

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513152003	Date Collected:	3/22/2005 11:15	Matrix:	Soil / Sediment
<b>Sample ID:</b> 151 BOTTOM	Date Received:	3/23/2005 08:30		

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

**General Chemistry**

**Phosphorus by SW-846 9056 [REF] (S) List**

Phosphorus	180	mg/Kg	18	1			3/25/2005	ESC	7723-14-0		
------------	-----	-------	----	---	--	--	-----------	-----	-----------	--	--

**Ortho Phosphate, SW-846 9056 [REF] (S) List**

Ortho Phosphate	120	mg/Kg	44	10			3/24/2005	ESC			
-----------------	-----	-------	----	----	--	--	-----------	-----	--	--	--

**Total Nitrogen [REF](S) List**

Total Nitrogen	U	mg/Kg	890	1			3/31/2005	ESC	7727-37-9(T)		
----------------	---	-------	-----	---	--	--	-----------	-----	--------------	--	--

Date: 04/13/2005

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### ANALYTICAL RESULTS

Project: 513152

Project ID: 4261

Solid results are reported on a dry weight basis.

<b>Lab ID:</b> 513152004	Date Collected:	3/22/2005 11:15	Matrix:	Soil / Sediment
<b>Sample ID:</b> 151(COMP)	Date Received:	3/23/2005 08:30		

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

**Metals**

**EPA 6020 Metals SCAN by ICP/MS (TCLP) List**

Chromium		U mg/L	0.0010				3/24/2005	ZS	7440-47-3		
Arsenic		U mg/L	0.0028				3/24/2005	ZS	7440-38-2		
Selenium		U mg/L	0.0010				3/24/2005	ZS	7782-49-2		
Silver		U mg/L	0.0010				3/24/2005	ZS	7440-22-4		
Cadmium		U mg/L	0.00020				3/24/2005	ZS	7440-43-9		
Barium	0.012	mg/L	0.00010				3/24/2005	ZS	7440-39-3		
Mercury		U mg/L	0.0010				3/24/2005	ZS	7439-97-6		
Lead		U mg/L	0.0010				3/24/2005	ZS	7439-92-1		

Date: 04/13/2005

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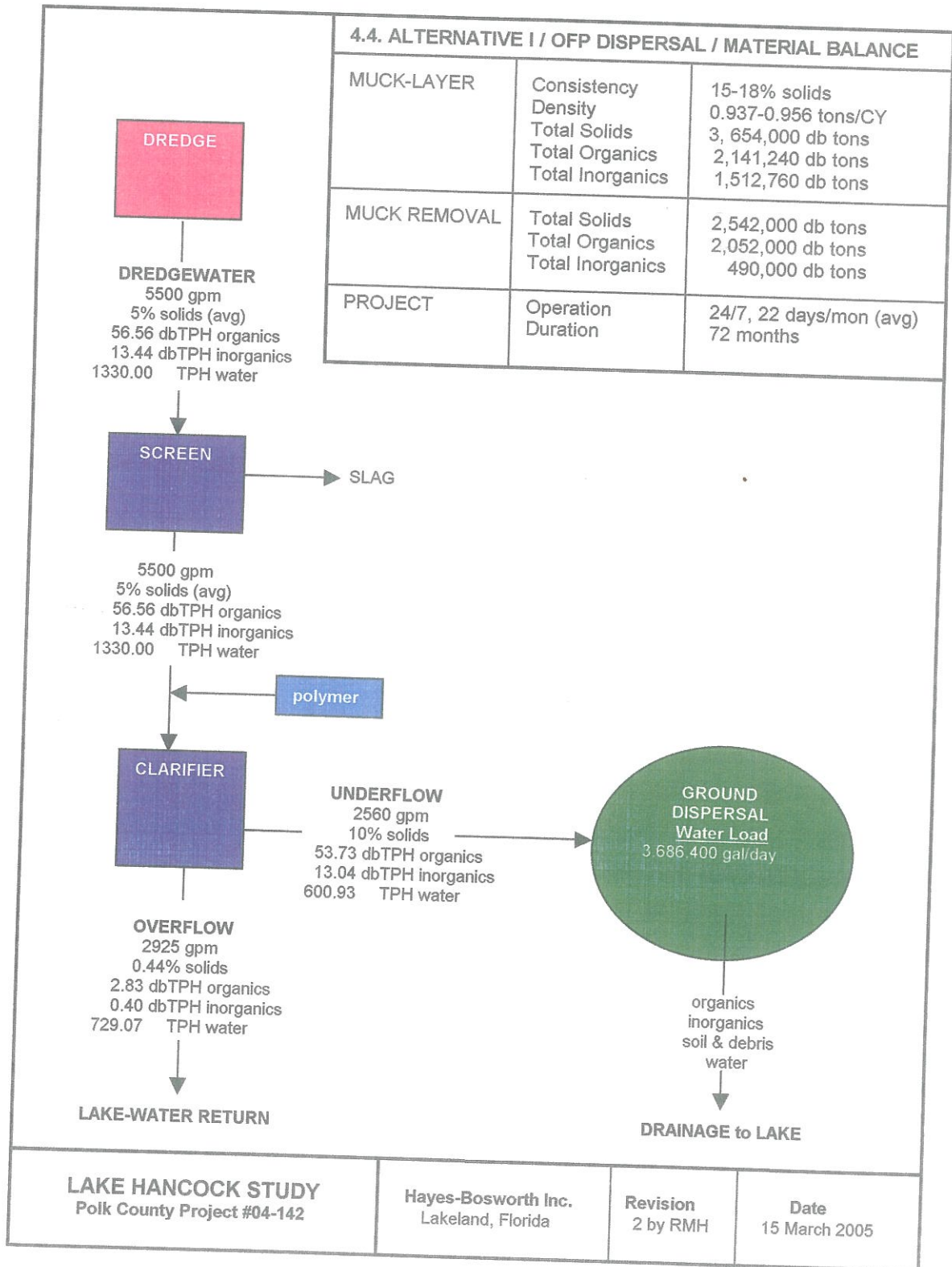
**REPORT OF LABORATORY ANALYSIS**

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# APPENDIX C

**ALTERNATIVE I**  
**MATERIAL BALANCE**

4.4. Material Balance Diagram



LAKE HANCOCK STUDY  
Polk County Project #04-142

Hayes-Bosworth Inc.  
Lakeland, Florida

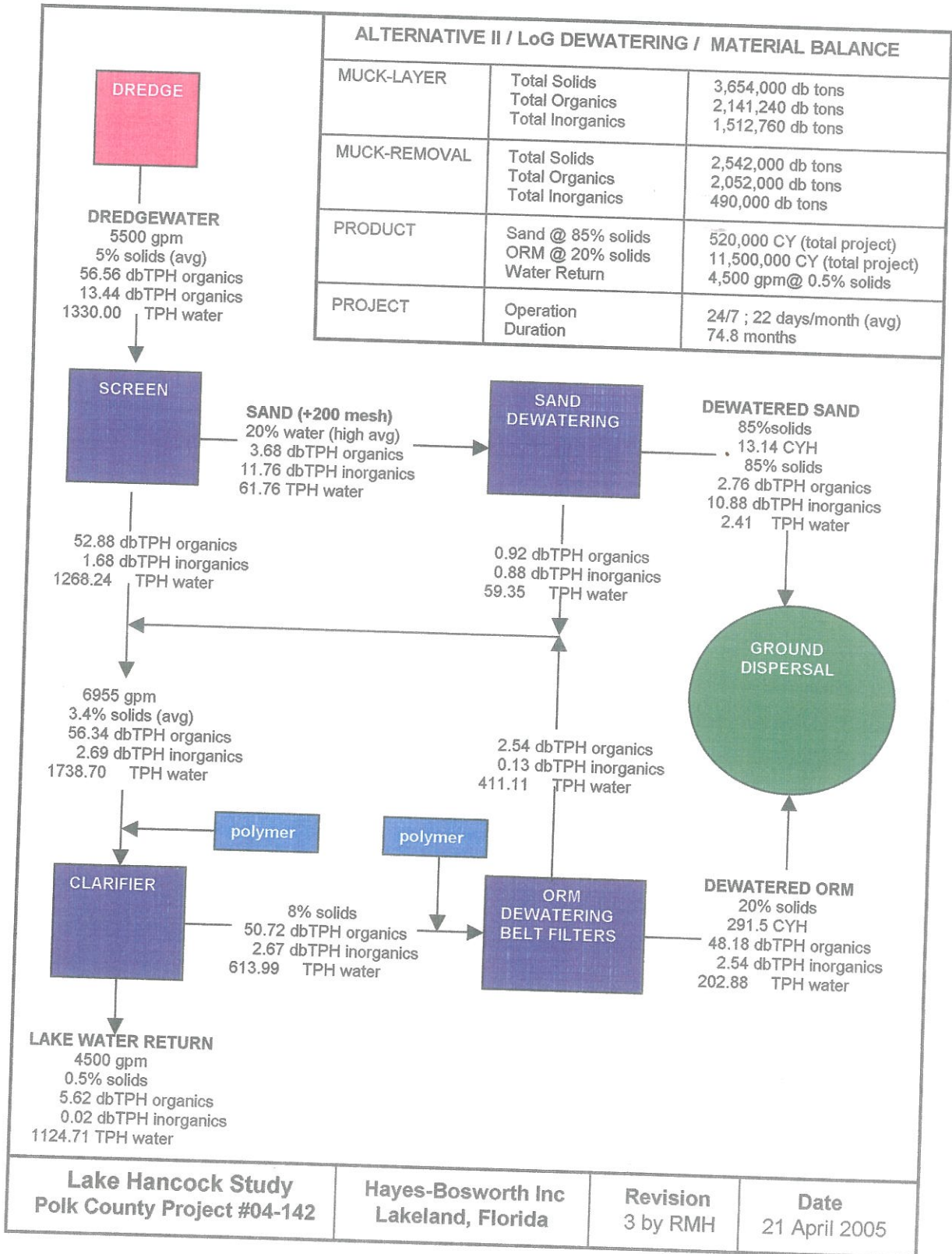
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2 by RMH

Date  
15 March 2005



**ALTERNATIVE II**  
**MATERIAL BALANCE**

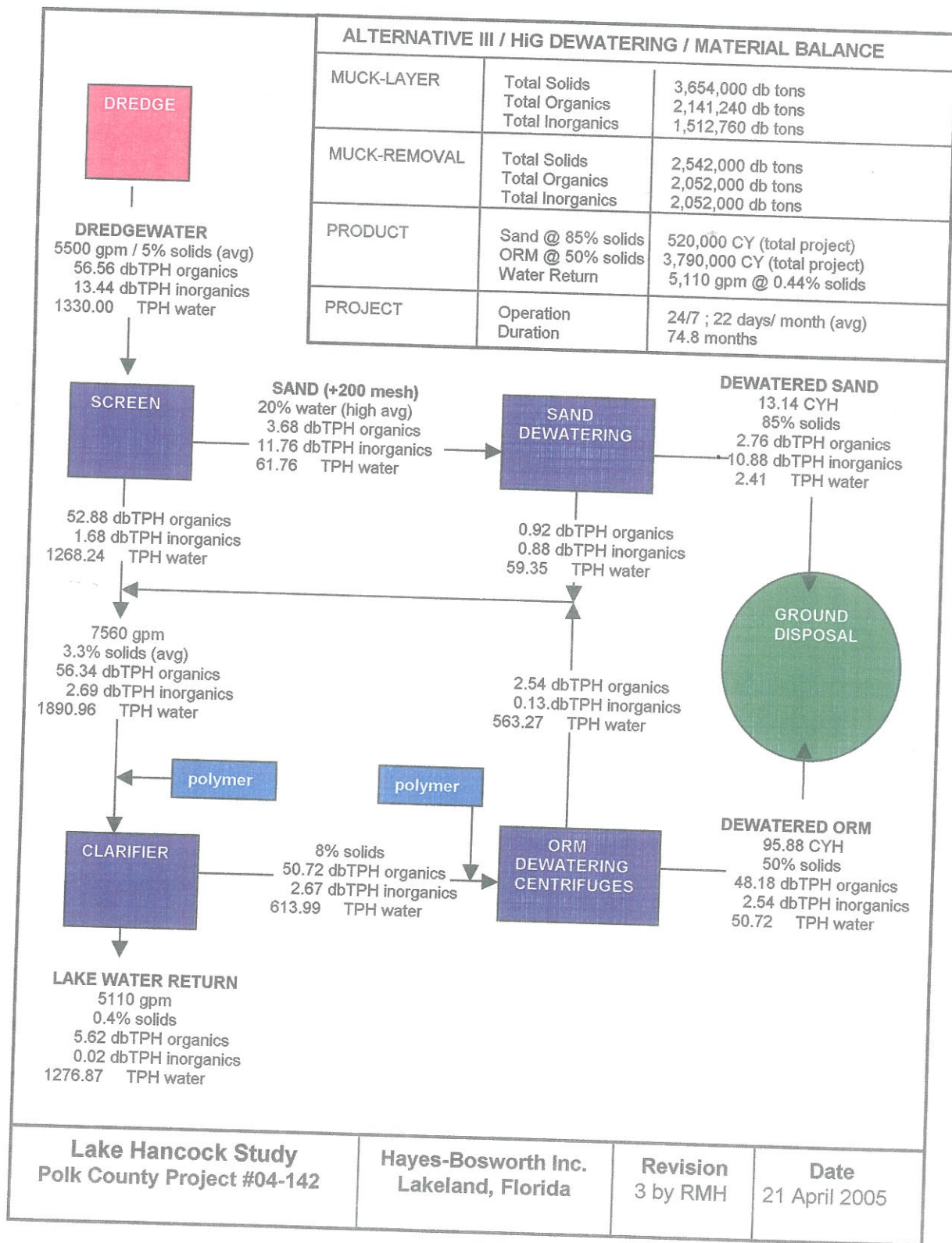
5.3. Material Balance Diagram



Lake Hancock Study Polk County Project #04-142	Hayes-Bosworth Inc Lakeland, Florida	Revision 3 by RMH	Date 21 April 2005
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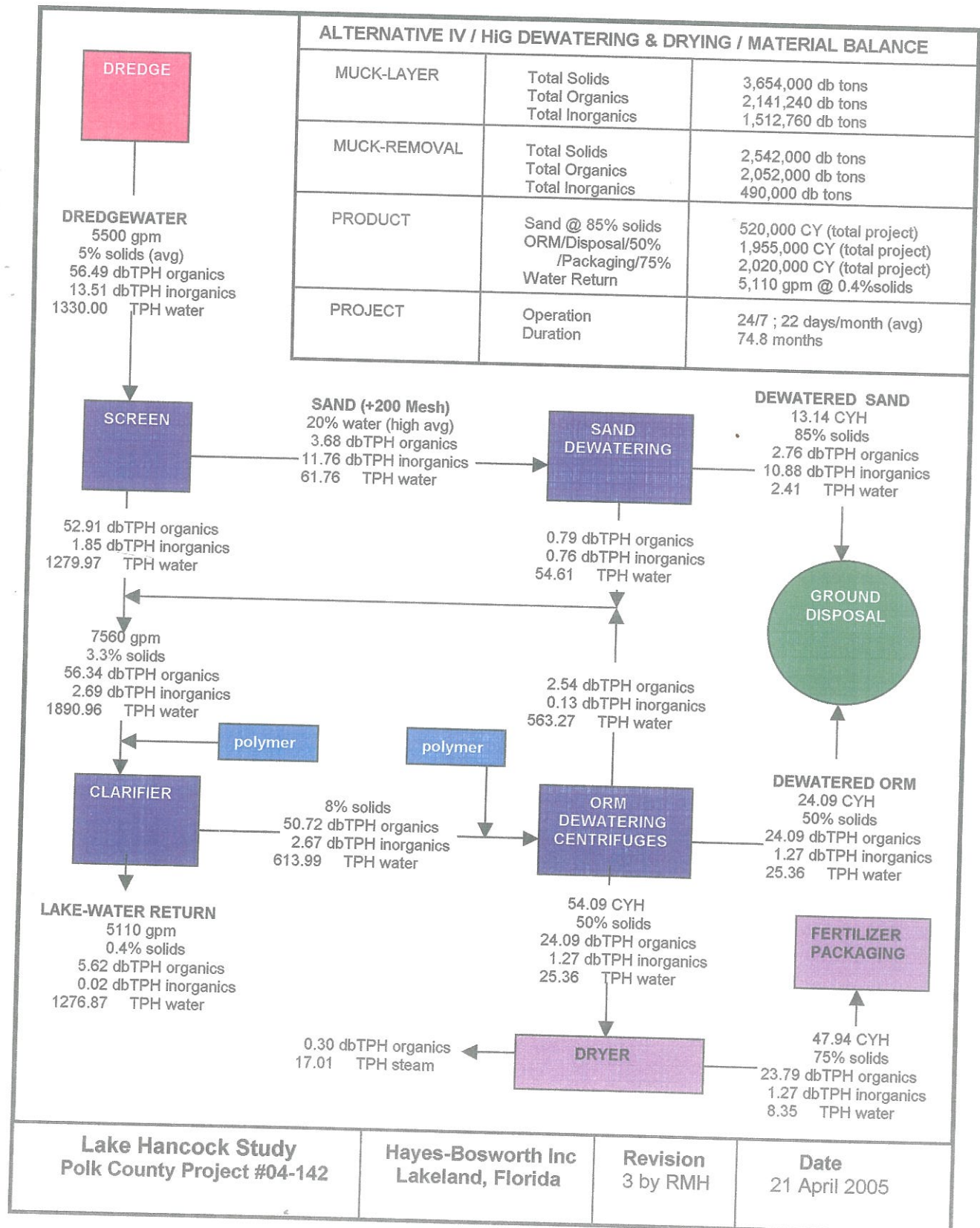
**ALTERNATIVE III**  
**MATERIAL BALANCE**

6.3. Material Balance Diagram



**ALTERNATIVE IV**  
**MATERIAL BALANCE**

### 7.2. Material Balance Diagram



Lake Hancock Study  
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