



March 22, 2010

Kate Brackett
Florida Department of Environmental Protection
Chemistry Section
2600 Blair Stone Road
Tallahassee, FL 32399

Re: SunLabs Project Number: **100309.13**
Client Project Description: **SIS**

Dear Ms. Brackett:

This report is being re-submitted.

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date Collected
98211	1254403 18-C	3/3/2010
98212	1254404 6-A	3/3/2010
98213	1254405 3-C	3/3/2010
98214	1254406 20-A	3/3/2010
98215	1254407 B-6	3/3/2010
98216	1254408 B-3	3/3/2010
98217	1254409 B-1	3/3/2010
98218	1254410 B-4	3/3/2010
98219	1254411 4-A	3/3/2010
98220	1254412 30-C	3/3/2010
98221	1254413 11-C	3/3/2010
98222	1254414 9-C	3/3/2010
98223	1254415 21-A	3/3/2010
98224	1254416 31-A	3/3/2010
98225	1254417 B-7	3/3/2010
98226	1254418 B-8	3/3/2010
98227	1254419 B-9	3/3/2010
98228	1254929 10-D	3/3/2010
98229	1254930 27-A	3/3/2010
98230	1254931 16-D	3/3/2010
98231	1254932 5C	3/3/2010
98232	1254933 19A	3/3/2010
98233	1254934 26-A	3/3/2010
98234	1254935 28-A	3/3/2010
98235	1254936 BG 10	3/4/2010
98236	1254937 BG11	3/4/2010
98237	1254938 2-D	3/4/2010
98238	1254939 8-A	3/4/2010

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Batch #D3497 had a failure for the RPD on Diquat. LCS and LCSD were within limits so no further action was taken. The LCSD recovery for Paraquat was low causing an elevated RPD. The MS, MSD, and LCS were all within control limits. No further action was taken.

Copies of the Chain(s)-of-Custody, if received, are attached to this report.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Sincerely,

Michael W. Palmer
Vice President, Laboratory Operations

Enclosures

Unless Otherwise Noted and Where Applicable:

These samples were received at the proper temperature and were analyzed as received. The results herein relate only to the items tested or to the samples as received by the laboratory • This report shall not be reproduced except in full, without the written approval of the laboratory • Results for all solid matrices are reported on a dry weight basis • All samples will be disposed of within 30 days of the date of receipt of the samples • All samples in the body of the report are environmental samples. All results in the Quality Control (QC) section are labeled appropriately • All results meet the requirements of the NELAC standards • Footnotes are given at the end of the report • Uncertainty values are available upon request.

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SunLabs Sample Number **98211**
Sample Designation **1254403 18-C**

Matrix Soil
Date Collected 3/3/2010 09:10
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<u>Percent Moisture</u>									
% Moisture	160.3M	%	34			0.15		03/12/10	
<u>Quarternary Ammonium Herbicides by SLI 549.2</u>									
Date Extracted	549.2-Mod.		3/11/2010						03/11/10 11:00
Diquat	549.2-Mod.	mg/kg	0.061 U	1	0.061	1.5	85-00-7	03/19/10 07:51	03/11/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.076 U	1	0.076	1.5	4685-14-7	03/19/10 07:51	03/11/10 11:00



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SunLabs Sample Number **98212**
Sample Designation **1254404 6-A**

Matrix Soil
Date Collected 3/3/2010 08:00
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
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Percent Moisture

% Moisture	160.3M	%	34			0.15		03/12/10	
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Quarternary Ammonium Herbicides by SLI 549.2

Date Extracted	549.2-Mod.		3/11/2010						03/11/10 11:00
Diquat	549.2-Mod.	mg/kg	0.061 U	1	0.061	1.5	85-00-7	03/19/10 08:04	03/11/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.076 U	1	0.076	1.5	4685-14-7	03/19/10 08:04	03/11/10 11:00



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SunLabs Sample Number **98213**
Sample Designation **1254405 3-C**

Matrix Soil
Date Collected 3/3/2010 08:50
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<u>Percent Moisture</u>									
% Moisture	160.3M	%	8			0.11		03/12/10	
<u>Quarternary Ammonium Herbicides by SLI 549.2</u>									
Date Extracted	549.2-Mod.		3/11/2010						03/11/10 11:00
Diquat	549.2-Mod.	mg/kg	0.043 U	1	0.043	1.1	85-00-7	03/19/10 08:16	03/11/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.054 U	1	0.054	1.1	4685-14-7	03/19/10 08:16	03/11/10 11:00



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SunLabs Sample Number **98214**
Sample Designation **1254406 20-A**

Matrix Soil
Date Collected 3/3/2010 10:05
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
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Percent Moisture

% Moisture	160.3M	%	12			0.11		03/12/10	
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Quarternary Ammonium Herbicides by SLI 549.2

Date Extracted	549.2-Mod.		3/11/2010						03/11/10 11:00
Diquat	549.2-Mod.	mg/kg	0.045 U	1	0.045	1.1	85-00-7	03/19/10 08:28	03/11/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.057 U	1	0.057	1.1	4685-14-7	03/19/10 08:28	03/11/10 11:00



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SunLabs Sample Number **98215**
Sample Designation **1254407 B-6**

Matrix Soil
Date Collected 3/3/2010 08:15
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<u>Percent Moisture</u>									
% Moisture	160.3M	%	8			0.11		03/12/10	
<u>Quarternary Ammonium Herbicides by SLI 549.2</u>									
Date Extracted	549.2-Mod.		3/11/2010						03/11/10 11:00
Diquat	549.2-Mod.	mg/kg	0.043 U	1	0.043	1.1	85-00-7	03/19/10 08:41	03/11/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.054 U	1	0.054	1.1	4685-14-7	03/19/10 08:41	03/11/10 11:00



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SunLabs Sample Number **98216**
Sample Designation **1254408 B-3**

Matrix Soil
Date Collected 3/3/2010 09:15
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
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Percent Moisture

% Moisture	160.3M	%	21			0.13		03/12/10	
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Quarternary Ammonium Herbicides by SLI 549.2

Date Extracted	549.2-Mod.		3/11/2010						03/11/10 11:00
Diquat	549.2-Mod.	mg/kg	0.051 U	1	0.051	1.3	85-00-7	03/19/10 08:53	03/11/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.063 U	1	0.063	1.3	4685-14-7	03/19/10 08:53	03/11/10 11:00



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SunLabs Sample Number **98217**
Sample Designation **1254409 B-1**

Matrix Soil
Date Collected 3/3/2010 10:10
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<u>Percent Moisture</u>									
% Moisture	160.3M	%	8			0.11		03/12/10	
<u>Quarternary Ammonium Herbicides by SLI 549.2</u>									
Date Extracted	549.2-Mod.		3/11/2010						03/11/10 11:00
Diquat	549.2-Mod.	mg/kg	0.043 U	1	0.043	1.1	85-00-7	03/19/10 09:06	03/11/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.054 U	1	0.054	1.1	4685-14-7	03/19/10 09:06	03/11/10 11:00



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SunLabs Sample Number **98218**
Sample Designation **1254410 B-4**

Matrix Soil
Date Collected 3/3/2010 10:45
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
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Percent Moisture

% Moisture	160.3M	%	4			0.1		03/12/10	
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Quarternary Ammonium Herbicides by SLI 549.2

Date Extracted	549.2-Mod.		3/11/2010						03/11/10 11:00
Diquat	549.2-Mod.	mg/kg	0.042 U	1	0.042	1	85-00-7	03/19/10 09:18	03/11/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.052 U	1	0.052	1	4685-14-7	03/19/10 09:18	03/11/10 11:00



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SunLabs Sample Number **98219**
Sample Designation **1254411 4-A**

Matrix Soil
Date Collected 3/3/2010 09:55
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<u>Percent Moisture</u>									
% Moisture	160.3M	%	12			0.11		03/12/10	
<u>Quarternary Ammonium Herbicides by SLI 549.2</u>									
Date Extracted	549.2-Mod.		3/11/2010						03/11/10 11:00
Diquat	549.2-Mod.	mg/kg	0.045 U	1	0.045	1.1	85-00-7	03/19/10 09:31	03/11/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.057 U	1	0.057	1.1	4685-14-7	03/19/10 09:31	03/11/10 11:00



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SunLabs Sample Number **98220**
Sample Designation **1254412 30-C**

Matrix Soil
Date Collected 3/3/2010 10:30
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
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Percent Moisture

% Moisture	160.3M	%	13			0.11		03/12/10	
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Quarternary Ammonium Herbicides by SLI 549.2

Date Extracted	549.2-Mod.		3/11/2010						03/11/10 11:00
Diquat	549.2-Mod.	mg/kg	0.046 U	1	0.046	1.1	85-00-7	03/19/10 09:43	03/11/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.057 U	1	0.057	1.1	4685-14-7	03/19/10 09:43	03/11/10 11:00



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SunLabs Sample Number **98221**
Sample Designation **1254413 11-C**

Matrix Soil
Date Collected 3/3/2010 11:25
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<u>Percent Moisture</u>									
% Moisture	160.3M	%	29			0.14		03/12/10	
<u>Quarternary Ammonium Herbicides by SLI 549.2</u>									
Date Extracted	549.2-Mod.		3/12/2010						03/12/10 11:00
Diquat	549.2-Mod.	mg/kg	0.056 U,J	1	0.056	1.4	85-00-7	03/19/10 11:10	03/12/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.07 U,J	1	0.07	1.4	4685-14-7	03/19/10 11:10	03/12/10 11:00



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SunLabs Sample Number **98222**
Sample Designation **1254414 9-C**

Matrix Soil
Date Collected 3/3/2010 11:40
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
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Percent Moisture

% Moisture	160.3M	%	12			0.11		03/12/10	
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Quarternary Ammonium Herbicides by SLI 549.2

Date Extracted	549.2-Mod.		3/12/2010						03/12/10 11:00
Diquat	549.2-Mod.	mg/kg	0.045 U	1	0.045	1.1	85-00-7	03/19/10 11:23	03/12/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.057 U,J	1	0.057	1.1	4685-14-7	03/19/10 11:23	03/12/10 11:00



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SunLabs Sample Number **98223**
Sample Designation **1254415 21-A**

Matrix Soil
Date Collected 3/3/2010 12:10
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<u>Percent Moisture</u>									
% Moisture	160.3M	%	15			0.12		03/12/10	
<u>Quarternary Ammonium Herbicides by SLI 549.2</u>									
Date Extracted	549.2-Mod.		3/12/2010						03/12/10 11:00
Diquat	549.2-Mod.	mg/kg	0.047 U	1	0.047	1.2	85-00-7	03/19/10 11:35	03/12/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.059 U,J	1	0.059	1.2	4685-14-7	03/19/10 11:35	03/12/10 11:00



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SunLabs Sample Number **98224**
Sample Designation **1254416 31-A**

Matrix Soil
Date Collected 3/3/2010 13:00
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
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Percent Moisture

% Moisture	160.3M	%	17			0.12		03/12/10	
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Quarternary Ammonium Herbicides by SLI 549.2

Date Extracted	549.2-Mod.		3/12/2010						03/12/10 11:00
Diquat	549.2-Mod.	mg/kg	0.048 U	1	0.048	1.2	85-00-7	03/19/10 11:48	03/12/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.06 U,J	1	0.06	1.2	4685-14-7	03/19/10 11:48	03/12/10 11:00



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SunLabs Sample Number **98225**
Sample Designation **1254417 B-7**

Matrix Soil
Date Collected 3/3/2010 13:00
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<u>Percent Moisture</u>									
% Moisture	160.3M	%	5			0.11		03/12/10	
<u>Quarternary Ammonium Herbicides by SLI 549.2</u>									
Date Extracted	549.2-Mod.		3/12/2010						03/12/10 11:00
Diquat	549.2-Mod.	mg/kg	0.042 U	1	0.042	1.1	85-00-7	03/19/10 12:00	03/12/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.053 U,J	1	0.053	1.1	4685-14-7	03/19/10 12:00	03/12/10 11:00



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SunLabs Sample Number **98226**
Sample Designation **1254418 B-8**

Matrix Soil
Date Collected 3/3/2010 13:35
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
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Percent Moisture

% Moisture	160.3M	%	5			0.11		03/12/10	
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Quarternary Ammonium Herbicides by SLI 549.2

Date Extracted	549.2-Mod.		3/12/2010						03/12/10 11:00
Diquat	549.2-Mod.	mg/kg	0.042 U	1	0.042	1.1	85-00-7	03/19/10 12:25	03/12/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.053 U,J	1	0.053	1.1	4685-14-7	03/19/10 12:25	03/12/10 11:00



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SunLabs Sample Number **98227**
Sample Designation **1254419 B-9**

Matrix Soil
Date Collected 3/3/2010 14:45
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<u>Percent Moisture</u>									
% Moisture	160.3M	%	23			0.13		03/12/10	
<u>Quarternary Ammonium Herbicides by SLI 549.2</u>									
Date Extracted	549.2-Mod.		3/12/2010						03/12/10 11:00
Diquat	549.2-Mod.	mg/kg	0.052 U	1	0.052	1.3	85-00-7	03/19/10 12:37	03/12/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.065 U,J	1	0.065	1.3	4685-14-7	03/19/10 12:37	03/12/10 11:00



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SunLabs Sample Number **98228**
Sample Designation **1254929 10-D**

Matrix Soil
Date Collected 3/3/2010 14:40
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture									
% Moisture	160.3M	%	7			0.11		03/12/10	

Quarternary Ammonium Herbicides by SLI 549.2

Date Extracted	549.2-Mod.		3/12/2010						03/12/10 11:00
Diquat	549.2-Mod.	mg/kg	0.043 U	1	0.043	1.1	85-00-7	03/19/10 12:50	03/12/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.054 U,J	1	0.054	1.1	4685-14-7	03/19/10 12:50	03/12/10 11:00



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SunLabs Sample Number **98229**
Sample Designation **1254930 27-A**

Matrix Soil
Date Collected 3/3/2010 17:00
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<u>Percent Moisture</u>									
% Moisture	160.3M	%	20			0.12		03/12/10	
<u>Quarternary Ammonium Herbicides by SLI 549.2</u>									
Date Extracted	549.2-Mod.		3/12/2010						03/12/10 11:00
Diquat	549.2-Mod.	mg/kg	0.05 U	1	0.05	1.2	85-00-7	03/19/10 13:02	03/12/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.062 U,J	1	0.062	1.2	4685-14-7	03/19/10 13:02	03/12/10 11:00



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SunLabs Sample Number **98230**
Sample Designation **1254931 16-D**

Matrix Soil
Date Collected 3/3/2010 17:30
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
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Percent Moisture

% Moisture	160.3M	%	10			0.11		03/12/10	
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Quarternary Ammonium Herbicides by SLI 549.2

Date Extracted	549.2-Mod.		3/12/2010						03/12/10 11:00
Diquat	549.2-Mod.	mg/kg	0.044 U	1	0.044	1.1	85-00-7	03/19/10 13:15	03/12/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.056 U,J	1	0.056	1.1	4685-14-7	03/19/10 13:15	03/12/10 11:00



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SunLabs Sample Number **98231**
Sample Designation **1254932 5C**

Matrix Soil
Date Collected 3/3/2010 14:25
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<u>Percent Moisture</u>									
% Moisture	160.3M	%	12			0.11		03/12/10	
<u>Quarternary Ammonium Herbicides by SLI 549.2</u>									
Date Extracted	549.2-Mod.		3/12/2010						03/12/10 11:00
Diquat	549.2-Mod.	mg/kg	0.045 U	1	0.045	1.1	85-00-7	03/19/10 13:27	03/12/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.057 U,J	1	0.057	1.1	4685-14-7	03/19/10 13:27	03/12/10 11:00



Report of Laboratory Analysis

SunLabs Project Number
100309.13

Florida Department of Environmental Protection Chemistry Section
Project Description
SIS

March 22, 2010

SunLabs Sample Number **98232**
Sample Designation **1254933 19A**

Matrix Soil
Date Collected 3/3/2010 15:25
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
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Percent Moisture

% Moisture	160.3M	%	21			0.13		03/12/10	
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Quarternary Ammonium Herbicides by SLI 549.2

Date Extracted	549.2-Mod.		3/12/2010						03/12/10 11:00
Diquat	549.2-Mod.	mg/kg	0.051 U	1	0.051	1.3	85-00-7	03/19/10 13:40	03/12/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.063 U,J	1	0.063	1.3	4685-14-7	03/19/10 13:40	03/12/10 11:00



Report of Laboratory Analysis

SunLabs Project Number	Florida Department of Environmental Protection Chemistry Section
100309.13	Project Description SIS

March 22, 2010

SunLabs Sample Number **98233**
Sample Designation **1254934 26-A**

Matrix Soil
Date Collected 3/3/2010 13:35
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<u>Percent Moisture</u>									
% Moisture	160.3M	%	9			0.11		03/12/10	
<u>Quarternary Ammonium Herbicides by SLI 549.2</u>									
Date Extracted	549.2-Mod.		3/12/2010						03/12/10 11:00
Diquat	549.2-Mod.	mg/kg	0.044 U	1	0.044	1.1	85-00-7	03/19/10 13:52	03/12/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.055 U,J	1	0.055	1.1	4685-14-7	03/19/10 13:52	03/12/10 11:00



Report of Laboratory Analysis

SunLabs Project Number
100309.13

Florida Department of Environmental Protection Chemistry Section
Project Description
SIS

March 22, 2010

SunLabs Sample Number **98234**
Sample Designation **1254935 28-A**

Matrix Soil
Date Collected 3/3/2010 15:45
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
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Percent Moisture

% Moisture	160.3M	%	22			0.13		03/12/10	
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Quarternary Ammonium Herbicides by SLI 549.2

Date Extracted	549.2-Mod.		3/12/2010						03/12/10 11:00
Diquat	549.2-Mod.	mg/kg	0.051 U	1	0.051	1.3	85-00-7	03/19/10 14:42	03/12/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.064 U,J	1	0.064	1.3	4685-14-7	03/19/10 14:42	03/12/10 11:00



Report of Laboratory Analysis

SunLabs Project Number
100309.13

Florida Department of Environmental Protection Chemistry Section
Project Description
SIS

March 22, 2010

SunLabs Sample Number **98235**
Sample Designation **1254936 BG 10**

Matrix Soil
Date Collected 3/4/2010 07:40
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<u>Percent Moisture</u>									
% Moisture	160.3M	%	32			0.15		03/12/10	
<u>Quarternary Ammonium Herbicides by SLI 549.2</u>									
Date Extracted	549.2-Mod.		3/12/2010						03/12/10 11:00
Diquat	549.2-Mod.	mg/kg	0.059 U	1	0.059	1.5	85-00-7	03/19/10 14:55	03/12/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.074 U,J	1	0.074	1.5	4685-14-7	03/19/10 14:55	03/12/10 11:00



Report of Laboratory Analysis

SunLabs Project Number
100309.13

Florida Department of Environmental Protection Chemistry Section
Project Description
SIS

March 22, 2010

SunLabs Sample Number **98236**
Sample Designation **1254937 BG11**

Matrix Soil
Date Collected 3/4/2010 09:20
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
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Percent Moisture

% Moisture	160.3M	%	8			0.11		03/12/10	
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Quarternary Ammonium Herbicides by SLI 549.2

Date Extracted	549.2-Mod.		3/12/2010						03/12/10 11:00
Diquat	549.2-Mod.	mg/kg	0.043 U	1	0.043	1.1	85-00-7	03/19/10 15:07	03/12/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.054 U,J	1	0.054	1.1	4685-14-7	03/19/10 15:07	03/12/10 11:00



Report of Laboratory Analysis

SunLabs Project Number	Florida Department of Environmental Protection Chemistry Section
100309.13	Project Description SIS

March 22, 2010

SunLabs Sample Number **98237**
Sample Designation **1254938 2-D**

Matrix Soil
Date Collected 3/4/2010 09:30
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<u>Percent Moisture</u>									
% Moisture	160.3M	%	14			0.12		03/12/10	
<u>Quarternary Ammonium Herbicides by SLI 549.2</u>									
Date Extracted	549.2-Mod.		3/12/2010						03/12/10 11:00
Diquat	549.2-Mod.	mg/kg	0.047 U	1	0.047	1.2	85-00-7	03/19/10 15:20	03/12/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.058 U,J	1	0.058	1.2	4685-14-7	03/19/10 15:20	03/12/10 11:00



Report of Laboratory Analysis

SunLabs Project Number
100309.13

Florida Department of Environmental Protection Chemistry Section
Project Description
SIS

March 22, 2010

SunLabs Sample Number **98238**
Sample Designation **1254939 8-A**

Matrix Soil
Date Collected 3/4/2010 08:45
Date Received 3/9/2010 09:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
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Percent Moisture

% Moisture	160.3M	%	5			0.11		03/12/10	
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Quarternary Ammonium Herbicides by SLI 549.2

Date Extracted	549.2-Mod.		3/12/2010						03/12/10 11:00
Diquat	549.2-Mod.	mg/kg	0.042 U	1	0.042	1.1	85-00-7	03/19/10 15:32	03/12/10 11:00
Paraquat	549.2-Mod.	mg/kg	0.053 U,J	1	0.053	1.1	4685-14-7	03/19/10 15:32	03/12/10 11:00



Report of Laboratory Analysis

SunLabs Project Number
100309.13

Florida Department of Environmental Protection Chemistry Section
Project Description
SIS

March 22, 2010

Footnotes

*	<i>SunLabs is not currently NELAC certified for this analyte.</i>
I	<i>The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.</i>
J	<i>The reported value failed to meet the established quality control criteria for either precision or accuracy(see cover letter for explanation)</i>
LCS	<i>Laboratory Control Sample</i>
LCSD	<i>Laboratory Control Sample Duplicate</i>
MB	<i>Method Blank</i>
MS	<i>Matrix Spike</i>
MSD	<i>Matrix Spike Duplicate</i>
NA	<i>Sample not analyzed at client's request.</i>
Q	<i>Sample held beyond the accepted holding time.</i>
RL	<i>RL (reporting limit) = PQL (practical quantitation limit).</i>
RPD	<i>Relative Percent Difference</i>
U	<i>Compound was analyzed for but not detected.</i>
U,J	<i>See individual footnotes</i>
V	<i>Indicates that the analyte was detected in both the sample and the associated method blank.</i>



Quality Control Data

Project Number	Florida Department of
100309.13	Project Description
	SIS

March 22, 2010

Batch No: **D3454**

Test: **Quarternary Ammonium Herbicides by SLI 549.2**

TestCode: 549.2-S

Associated Samples

98211, 98212, 98213, 98214, 98215, 98216, 98217, 98218, 98219, 98220

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	---QC Limits--- RPD	---QC Limits--- LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	---QC Limits--- RPD	---QC Limits--- MS	Dup RPD	Qualifiers
Parent Sample Number															
Date Extracted	03/11/10			11/10				98068	98068						
Diquat	0.04 U mg/kg	500	43			9-105		500	5	6	18	21	0-150		
Paraquat	0.05 U mg/kg	500	58			32-96		500	2	5	86	220	0-122		

Batch No: **D3497**

Test: **Quarternary Ammonium Herbicides by SLI 549.2**

TestCode: 549.2-S

Associated Samples

98221, 98222, 98223, 98224, 98225, 98226, 98227, 98228, 98229, 98230, 98231, 98232, 98233, 98234, 98235, 98236, 98237, 98238

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	---QC Limits--- RPD	---QC Limits--- LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	---QC Limits--- RPD	---QC Limits--- MS	Dup RPD	Qualifiers
Parent Sample Number															
Date Extracted	03/12/10			12/10	12/10	0		98221	98221						
Diquat	0.04 U mg/kg	500	32	34	6	20	9-105	500	44	34	26 *	21	0-150		
Paraquat	0.05 U mg/kg	500	36	25 *	36 *	12	32-96	500	68	64	6	220	0-122		

* indicates value is outside control limits for %Recovery or greater than acceptance criteria for RPD

Footnotes

U

Compound was analyzed for but not detected.

SLI Proj # 100309.13

SIS-2010-03-04-04 TLH-2010-03-04-95
SIS-2010-03-05-02 TLH-2010-03-05-30

SAMPLE ID	FIELD ID	SLI sample #	DATE SAMPLED	MATRIX	ANALYSIS
1254403	18-C	98211	3/3/2010 9:10	S-SOIL	OV-PDQUT-S
1254404	6-A	98212	3/3/2010 8:00	S-SOIL	OV-PDQUT-S
1254405	3-C	98213	3/3/2010 8:50	S-SOIL	OV-PDQUT-S
1254406	20-A	98214	3/3/2010 10:05	S-SOIL	OV-PDQUT-S
1254407	B-6	98215	3/3/2010 8:15	S-SOIL	OV-PDQUT-S
1254408	B-3	98216	3/3/2010 9:15	S-SOIL	OV-PDQUT-S
1254409	B-1	98217	3/3/2010 10:10	S-SOIL	OV-PDQUT-S
1254410	B-4	98218	3/3/2010 10:45	S-SOIL	OV-PDQUT-S
1254411	4-A	98219	3/3/2010 9:55	S-SOIL	OV-PDQUT-S
1254412	30-C	98220	3/3/2010 10:30	S-SOIL	OV-PDQUT-S
1254413	11-C	98221	3/3/2010 11:25	S-SOIL	OV-PDQUT-S
1254414	9-C	98222	3/3/2010 11:40	S-SOIL	OV-PDQUT-S
1254415	21-A	98223	3/3/2010 12:10	S-SOIL	OV-PDQUT-S
1254416	31-A	98224	3/3/2010 13:00	S-SOIL	OV-PDQUT-S
1254417	B-7	98225	3/3/2010 13:00	S-SOIL	OV-PDQUT-S
1254418	B-8	98226	3/3/2010 13:35	S-SOIL	OV-PDQUT-S
1254419	B-9	98227	3/3/2010 14:45	S-SOIL	OV-PDQUT-S
1254929	10-D	98228	3/3/2010 14:40	S-SOIL	OV-PDQUT-S
1254930	27-A	98229	3/3/2010 17:00	S-SOIL	OV-PDQUT-S
1254931	16-D	98230	3/3/2010 17:30	S-SOIL	OV-PDQUT-S
1254932	5C	98231	3/3/2010 14:25	S-SOIL	OV-PDQUT-S
1254933	19A	98232	3/3/2010 15:25	S-SOIL	OV-PDQUT-S
1254934	26-A	98233	3/3/2010 13:35	S-SOIL	OV-PDQUT-S
1254935	28-A	98234	3/3/2010 15:45	S-SOIL	OV-PDQUT-S
1254936	BG 10	98235	3/4/2010 7:40	S-SOIL	OV-PDQUT-S
1254937	BG11	98236	3/4/2010 9:20	S-SOIL	OV-PDQUT-S
1254938	2-D	98237	3/4/2010 9:30	S-SOIL	OV-PDQUT-S
1254939	8-A	98238	3/4/2010 8:45	S-SOIL	OV-PDQUT-S
1254974	SOIL EQUIP BLANK # 6		3/4/2010 7:30	W-EQPMT-BK	OV-PDQUT-W
1254975	SOIL EQUIP BLANK # 7		3/4/2010 7:30	W-EQPMT-BK	OV-PDQUT-W
1254976	SOIL EQUIP BLANK # 8		3/4/2010 7:30	W-EQPMT-BK	OV-PDQUT-W
1254977	SOIL EQUIP BLANK # 9		3/4/2010 7:30	W-EQPMT-BK	OV-PDQUT-W

Shaded samples were hand delivered on 3/5/10

Rec'd 3/9/10 0910

2.9°C

**STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
TASK ASSIGNMENT/NOTIFICATION FORM: DEP PURCHASE ORDER NO**

Contract Manager: Kate Brackett, MS 6510
2600 Blair Stone Rd.
Tallahassee, FL 32399-2400

(850) 245-8085

Contractor: SunLabs, Inc.
5460 Beaumont Center Blvd., Suite 520
Tampa, FL 33634

(813) 881-9401

State Approval By: [Signature] Project Manager Contractor Approval By: _____ *
Project Manager

Contractor Representative Contacted: Christine Hill Date: 3/18/10

Means of Contact: phone / email

Task Assignment Number: SL 2 Maximum Cost: \$6,100.00

Turnaround Time: 2 week turnaround (unless unforeseen delays - no later than 4 weeks)

Sample Delivery Date: Shipped 3/8/10

ProjectName/Description: (include purpose, location, etc.) SIS

Parameter Group/ Method	Sample Matrix	# of Samples	# of QC Samples	DEP ID #	Unit Cost	%mark-up (if any)	Cost
<u>anion/Diquat</u>	<u>Soil</u>	<u>17</u>	<u>10.00%</u>	<u>1254403-419</u>	<u>200.00</u>		<u>\$3,400.00</u>
<u>SLI 549.2</u>	<u>Soil</u>	<u>11</u>	<u>10.00%</u>	<u>1254929-939</u>	<u>200.00</u>		<u>\$2,200.00</u>
<u>" " "</u>	<u>EQ *</u>	<u>4</u>		<u>1254974-977</u>	<u>125.00</u>		<u>\$500.00</u>
	<u>Blanks</u>						

Total: \$6,100.00

Total Number of Containers Shipped: 28

QC Instructions: Use samples from this project for the duplicate matrix
spikes in each batch.

Samples released to Contract Lab by: [Signature] /Date/Time 3/8/10/1330

Delivery Method: Fed Ex

Received by: SunLabs, Inc /Date/Time 3/9/10 0910

* Please sign and return by FAX at (850) 412-0497 or e-mail to kathryn.brackett@dep.state.fl.us

Xerox copy Sent To:

Contracts-MS #93

F&A-MS #78

Bureau of Labs

* Equipment Blanks were hand delivered on 3/5/10.