

November 13, 2018

Ms. Sarah Riffe
Aerostar SES LLC
535 Cooper Commerce Drive
#300
Apopka, FL 32703

RE: Project: Flager County Soil
Pace Project No.: 35429179

Dear Ms. Riffe:

Enclosed are the analytical results for sample(s) received by the laboratory on November 07, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Tommy Carr
tommy.carr@pacelabs.com
(386) 672-5668
Project Manager

Enclosures

cc: Accounts Payable, Aerostar SES LLC-Apopka



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Flager County Soil

Pace Project No.: 35429179

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: Flager County Soil

Pace Project No.: 35429179

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35429179001	FCWR-01	Solid	11/07/18 11:12	11/07/18 14:15
35429179002	FCWR-02	Solid	11/07/18 12:13	11/07/18 14:15
35429179003	FCWR-03	Solid	11/07/18 12:30	11/07/18 14:15
35429179004	FCWR-04	Solid	11/07/18 11:56	11/07/18 14:15
35429179005	FCWR-05	Solid	11/07/18 11:42	11/07/18 14:15

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SAMPLE ANALYTE COUNT

Project: Flager County Soil

Pace Project No.: 35429179

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35429179001	FCWR-01	EPA 8081	AER	22	PASI-O
		ASTM D2974-87	RAK	1	PASI-O
		SM 2540G	KLT	1	PASI-O
35429179002	FCWR-02	EPA 8081	AER	22	PASI-O
		ASTM D2974-87	RAK	1	PASI-O
		SM 2540G	KLT	1	PASI-O
35429179003	FCWR-03	EPA 8081	AER	22	PASI-O
		ASTM D2974-87	RAK	1	PASI-O
		SM 2540G	KLT	1	PASI-O
35429179004	FCWR-04	EPA 8081	AER	22	PASI-O
		ASTM D2974-87	RAK	1	PASI-O
		SM 2540G	KLT	1	PASI-O
35429179005	FCWR-05	EPA 8081	AER	22	PASI-O
		ASTM D2974-87	RAK	1	PASI-O
		SM 2540G	KLT	1	PASI-O

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SUMMARY OF DETECTION

Project: Flager County Soil

Pace Project No.: 35429179

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35429179001	FCWR-01					
ASTM D2974-87	Percent Moisture	29.6	%	0.10	11/12/18 11:52	
SM 2540G	Total Volatile Solids	4.6	%	0.0010	11/09/18 08:19	
35429179002	FCWR-02					
ASTM D2974-87	Percent Moisture	21.5	%	0.10	11/12/18 11:52	
SM 2540G	Total Volatile Solids	1.1	%	0.0010	11/09/18 08:19	
35429179003	FCWR-03					
EPA 8081	4,4'-DDE	0.00032	l mg/kg	0.0021	11/10/18 02:26	
ASTM D2974-87	Percent Moisture	18.7	%	0.10	11/12/18 11:52	
SM 2540G	Total Volatile Solids	1.5	%	0.0010	11/09/18 08:19	
35429179004	FCWR-04					
ASTM D2974-87	Percent Moisture	6.0	%	0.10	11/12/18 11:52	
SM 2540G	Total Volatile Solids	1.3	%	0.0010	11/09/18 08:20	
35429179005	FCWR-05					
ASTM D2974-87	Percent Moisture	26.2	%	0.10	11/12/18 11:52	
SM 2540G	Total Volatile Solids	10.9	%	0.0010	11/09/18 08:20	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Flager County Soil
Pace Project No.: 35429179

Sample: FCWR-01 **Lab ID: 35429179001** Collected: 11/07/18 11:12 Received: 11/07/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides									
Analytical Method: EPA 8081 Preparation Method: EPA 3546									
Aldrin	0.000082 U	mg/kg	0.0024	0.000082	1	11/08/18 03:25	11/10/18 00:58	309-00-2	
alpha-BHC	0.000098 U	mg/kg	0.0024	0.000098	1	11/08/18 03:25	11/10/18 00:58	319-84-6	
beta-BHC	0.00011 U	mg/kg	0.0024	0.00011	1	11/08/18 03:25	11/10/18 00:58	319-85-7	
delta-BHC	0.00012 U	mg/kg	0.0024	0.00012	1	11/08/18 03:25	11/10/18 00:58	319-86-8	
gamma-BHC (Lindane)	0.00021 U	mg/kg	0.0024	0.00021	1	11/08/18 03:25	11/10/18 00:58	58-89-9	
Chlordane (Technical)	0.022 U	mg/kg	0.024	0.022	1	11/08/18 03:25	11/10/18 00:58	57-74-9	
4,4'-DDD	0.00019 U	mg/kg	0.0024	0.00019	1	11/08/18 03:25	11/10/18 00:58	72-54-8	CH
4,4'-DDE	0.000086 U	mg/kg	0.0024	0.000086	1	11/08/18 03:25	11/10/18 00:58	72-55-9	
4,4'-DDT	0.00014 U	mg/kg	0.0024	0.00014	1	11/08/18 03:25	11/10/18 00:58	50-29-3	
Dieldrin	0.000057 U	mg/kg	0.0024	0.000057	1	11/08/18 03:25	11/10/18 00:58	60-57-1	
Endosulfan I	0.000035 U	mg/kg	0.0024	0.000035	1	11/08/18 03:25	11/10/18 00:58	959-98-8	
Endosulfan II	0.000081 U	mg/kg	0.0024	0.000081	1	11/08/18 03:25	11/10/18 00:58	33213-65-9	
Endosulfan sulfate	0.000061 U	mg/kg	0.0024	0.000061	1	11/08/18 03:25	11/10/18 00:58	1031-07-8	CH
Endrin	0.000074 U	mg/kg	0.0024	0.000074	1	11/08/18 03:25	11/10/18 00:58	72-20-8	
Endrin aldehyde	0.000094 U	mg/kg	0.0047	0.000094	1	11/08/18 03:25	11/10/18 00:58	7421-93-4	CH
Endrin ketone	0.00011 U	mg/kg	0.0024	0.00011	1	11/08/18 03:25	11/10/18 00:58	53494-70-5	CH
Heptachlor	0.000055 U	mg/kg	0.0024	0.000055	1	11/08/18 03:25	11/10/18 00:58	76-44-8	
Heptachlor epoxide	0.00016 U	mg/kg	0.0024	0.00016	1	11/08/18 03:25	11/10/18 00:58	1024-57-3	
Methoxychlor	0.0015 U	mg/kg	0.0024	0.0015	1	11/08/18 03:25	11/10/18 00:58	72-43-5	CH
Toxaphene	0.010 U	mg/kg	0.024	0.010	1	11/08/18 03:25	11/10/18 00:58	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	70	%	53-140		1	11/08/18 03:25	11/10/18 00:58	877-09-8	
Decachlorobiphenyl (S)	66	%	43-157		1	11/08/18 03:25	11/10/18 00:58	2051-24-3	CH
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	29.6	%	0.10	0.10	1		11/12/18 11:52		
2540G Total Volatile Solids									
Analytical Method: SM 2540G									
Total Volatile Solids	4.6	%	0.0010	0.0010	1		11/09/18 08:19		

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ANALYTICAL RESULTS

Project: Flager County Soil

Pace Project No.: 35429179

Sample: FCWR-02 Lab ID: 35429179002 Collected: 11/07/18 12:13 Received: 11/07/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides									
Analytical Method: EPA 8081 Preparation Method: EPA 3546									
Aldrin	0.000074 U	mg/kg	0.0022	0.000074	1	11/08/18 03:25	11/10/18 01:20	309-00-2	
alpha-BHC	0.000088 U	mg/kg	0.0022	0.000088	1	11/08/18 03:25	11/10/18 01:20	319-84-6	
beta-BHC	0.000098 U	mg/kg	0.0022	0.000098	1	11/08/18 03:25	11/10/18 01:20	319-85-7	
delta-BHC	0.00011 U	mg/kg	0.0022	0.00011	1	11/08/18 03:25	11/10/18 01:20	319-86-8	
gamma-BHC (Lindane)	0.00019 U	mg/kg	0.0022	0.00019	1	11/08/18 03:25	11/10/18 01:20	58-89-9	
Chlordane (Technical)	0.020 U	mg/kg	0.022	0.020	1	11/08/18 03:25	11/10/18 01:20	57-74-9	
4,4'-DDD	0.00017 U	mg/kg	0.0022	0.00017	1	11/08/18 03:25	11/10/18 01:20	72-54-8	CH
4,4'-DDE	0.000077 U	mg/kg	0.0022	0.000077	1	11/08/18 03:25	11/10/18 01:20	72-55-9	
4,4'-DDT	0.00012 U	mg/kg	0.0022	0.00012	1	11/08/18 03:25	11/10/18 01:20	50-29-3	
Dieldrin	0.000051 U	mg/kg	0.0022	0.000051	1	11/08/18 03:25	11/10/18 01:20	60-57-1	
Endosulfan I	0.000032 U	mg/kg	0.0022	0.000032	1	11/08/18 03:25	11/10/18 01:20	959-98-8	
Endosulfan II	0.000072 U	mg/kg	0.0022	0.000072	1	11/08/18 03:25	11/10/18 01:20	33213-65-9	
Endosulfan sulfate	0.000055 U	mg/kg	0.0022	0.000055	1	11/08/18 03:25	11/10/18 01:20	1031-07-8	CH
Endrin	0.000066 U	mg/kg	0.0022	0.000066	1	11/08/18 03:25	11/10/18 01:20	72-20-8	
Endrin aldehyde	0.000084 U	mg/kg	0.0042	0.000084	1	11/08/18 03:25	11/10/18 01:20	7421-93-4	CH
Endrin ketone	0.00010 U	mg/kg	0.0022	0.00010	1	11/08/18 03:25	11/10/18 01:20	53494-70-5	CH
Heptachlor	0.000050 U	mg/kg	0.0022	0.000050	1	11/08/18 03:25	11/10/18 01:20	76-44-8	
Heptachlor epoxide	0.00014 U	mg/kg	0.0022	0.00014	1	11/08/18 03:25	11/10/18 01:20	1024-57-3	
Methoxychlor	0.0013 U	mg/kg	0.0022	0.0013	1	11/08/18 03:25	11/10/18 01:20	72-43-5	CH
Toxaphene	0.0093 U	mg/kg	0.022	0.0093	1	11/08/18 03:25	11/10/18 01:20	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	78	%	53-140		1	11/08/18 03:25	11/10/18 01:20	877-09-8	
Decachlorobiphenyl (S)	85	%	43-157		1	11/08/18 03:25	11/10/18 01:20	2051-24-3	CH
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	21.5	%	0.10	0.10	1		11/12/18 11:52		
2540G Total Volatile Solids									
Analytical Method: SM 2540G									
Total Volatile Solids	1.1	%	0.0010	0.0010	1		11/09/18 08:19		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Flager County Soil

Pace Project No.: 35429179

Sample: FCWR-03 **Lab ID: 35429179003** Collected: 11/07/18 12:30 Received: 11/07/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides									
Analytical Method: EPA 8081 Preparation Method: EPA 3546									
Aldrin	0.000071 U	mg/kg	0.0021	0.000071	1	11/08/18 03:25	11/10/18 02:26	309-00-2	
alpha-BHC	0.000084 U	mg/kg	0.0021	0.000084	1	11/08/18 03:25	11/10/18 02:26	319-84-6	
beta-BHC	0.000094 U	mg/kg	0.0021	0.000094	1	11/08/18 03:25	11/10/18 02:26	319-85-7	
delta-BHC	0.00011 U	mg/kg	0.0021	0.00011	1	11/08/18 03:25	11/10/18 02:26	319-86-8	
gamma-BHC (Lindane)	0.00018 U	mg/kg	0.0021	0.00018	1	11/08/18 03:25	11/10/18 02:26	58-89-9	
Chlordane (Technical)	0.019 U	mg/kg	0.021	0.019	1	11/08/18 03:25	11/10/18 02:26	57-74-9	
4,4'-DDD	0.00016 U	mg/kg	0.0021	0.00016	1	11/08/18 03:25	11/10/18 02:26	72-54-8	CH
4,4'-DDE	0.00032 I	mg/kg	0.0021	0.000075	1	11/08/18 03:25	11/10/18 02:26	72-55-9	
4,4'-DDT	0.00012 U	mg/kg	0.0021	0.00012	1	11/08/18 03:25	11/10/18 02:26	50-29-3	
Dieldrin	0.000049 U	mg/kg	0.0021	0.000049	1	11/08/18 03:25	11/10/18 02:26	60-57-1	
Endosulfan I	0.000031 U	mg/kg	0.0021	0.000031	1	11/08/18 03:25	11/10/18 02:26	959-98-8	
Endosulfan II	0.000070 U	mg/kg	0.0021	0.000070	1	11/08/18 03:25	11/10/18 02:26	33213-65-9	
Endosulfan sulfate	0.000053 U	mg/kg	0.0021	0.000053	1	11/08/18 03:25	11/10/18 02:26	1031-07-8	CH
Endrin	0.000064 U	mg/kg	0.0021	0.000064	1	11/08/18 03:25	11/10/18 02:26	72-20-8	
Endrin aldehyde	0.000081 U	mg/kg	0.0040	0.000081	1	11/08/18 03:25	11/10/18 02:26	7421-93-4	CH
Endrin ketone	0.000098 U	mg/kg	0.0021	0.000098	1	11/08/18 03:25	11/10/18 02:26	53494-70-5	CH
Heptachlor	0.000048 U	mg/kg	0.0021	0.000048	1	11/08/18 03:25	11/10/18 02:26	76-44-8	
Heptachlor epoxide	0.00014 U	mg/kg	0.0021	0.00014	1	11/08/18 03:25	11/10/18 02:26	1024-57-3	
Methoxychlor	0.0013 U	mg/kg	0.0021	0.0013	1	11/08/18 03:25	11/10/18 02:26	72-43-5	CH
Toxaphene	0.0090 U	mg/kg	0.021	0.0090	1	11/08/18 03:25	11/10/18 02:26	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	53-140		1	11/08/18 03:25	11/10/18 02:26	877-09-8	
Decachlorobiphenyl (S)	87	%	43-157		1	11/08/18 03:25	11/10/18 02:26	2051-24-3	CH
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	18.7	%	0.10	0.10	1		11/12/18 11:52		
2540G Total Volatile Solids									
Analytical Method: SM 2540G									
Total Volatile Solids	1.5	%	0.0010	0.0010	1		11/09/18 08:19		

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ANALYTICAL RESULTS

Project: Flager County Soil

Pace Project No.: 35429179

Sample: FCWR-04 Lab ID: 35429179004 Collected: 11/07/18 11:56 Received: 11/07/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides		Analytical Method: EPA 8081 Preparation Method: EPA 3546							
Aldrin	0.000061 U	mg/kg	0.0018	0.000061	1	11/08/18 03:25	11/10/18 02:47	309-00-2	
alpha-BHC	0.000072 U	mg/kg	0.0018	0.000072	1	11/08/18 03:25	11/10/18 02:47	319-84-6	
beta-BHC	0.000081 U	mg/kg	0.0018	0.000081	1	11/08/18 03:25	11/10/18 02:47	319-85-7	
delta-BHC	0.000091 U	mg/kg	0.0018	0.000091	1	11/08/18 03:25	11/10/18 02:47	319-86-8	
gamma-BHC (Lindane)	0.00016 U	mg/kg	0.0018	0.00016	1	11/08/18 03:25	11/10/18 02:47	58-89-9	
Chlordane (Technical)	0.017 U	mg/kg	0.018	0.017	1	11/08/18 03:25	11/10/18 02:47	57-74-9	
4,4'-DDD	0.00014 U	mg/kg	0.0018	0.00014	1	11/08/18 03:25	11/10/18 02:47	72-54-8	CH
4,4'-DDE	0.000064 U	mg/kg	0.0018	0.000064	1	11/08/18 03:25	11/10/18 02:47	72-55-9	
4,4'-DDT	0.00010 U	mg/kg	0.0018	0.00010	1	11/08/18 03:25	11/10/18 02:47	50-29-3	
Dieldrin	0.000042 U	mg/kg	0.0018	0.000042	1	11/08/18 03:25	11/10/18 02:47	60-57-1	
Endosulfan I	0.000026 U	mg/kg	0.0018	0.000026	1	11/08/18 03:25	11/10/18 02:47	959-98-8	
Endosulfan II	0.000060 U	mg/kg	0.0018	0.000060	1	11/08/18 03:25	11/10/18 02:47	33213-65-9	
Endosulfan sulfate	0.000045 U	mg/kg	0.0018	0.000045	1	11/08/18 03:25	11/10/18 02:47	1031-07-8	CH
Endrin	0.000055 U	mg/kg	0.0018	0.000055	1	11/08/18 03:25	11/10/18 02:47	72-20-8	
Endrin aldehyde	0.000069 U	mg/kg	0.0035	0.000069	1	11/08/18 03:25	11/10/18 02:47	7421-93-4	CH
Endrin ketone	0.000084 U	mg/kg	0.0018	0.000084	1	11/08/18 03:25	11/10/18 02:47	53494-70-5	CH
Heptachlor	0.000041 U	mg/kg	0.0018	0.000041	1	11/08/18 03:25	11/10/18 02:47	76-44-8	
Heptachlor epoxide	0.00012 U	mg/kg	0.0018	0.00012	1	11/08/18 03:25	11/10/18 02:47	1024-57-3	
Methoxychlor	0.0011 U	mg/kg	0.0018	0.0011	1	11/08/18 03:25	11/10/18 02:47	72-43-5	CH
Toxaphene	0.0077 U	mg/kg	0.018	0.0077	1	11/08/18 03:25	11/10/18 02:47	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	53-140		1	11/08/18 03:25	11/10/18 02:47	877-09-8	
Decachlorobiphenyl (S)	97	%	43-157		1	11/08/18 03:25	11/10/18 02:47	2051-24-3	CH
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	6.0	%	0.10	0.10	1		11/12/18 11:52		
2540G Total Volatile Solids		Analytical Method: SM 2540G							
Total Volatile Solids	1.3	%	0.0010	0.0010	1		11/09/18 08:20		

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ANALYTICAL RESULTS

Project: Flager County Soil

Pace Project No.: 35429179

Sample: FCWR-05 **Lab ID: 35429179005** Collected: 11/07/18 11:42 Received: 11/07/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides									
Analytical Method: EPA 8081 Preparation Method: EPA 3546									
Aldrin	0.000078 U	mg/kg	0.0023	0.000078	1	11/08/18 03:25	11/10/18 03:09	309-00-2	
alpha-BHC	0.000092 U	mg/kg	0.0023	0.000092	1	11/08/18 03:25	11/10/18 03:09	319-84-6	
beta-BHC	0.00010 U	mg/kg	0.0023	0.00010	1	11/08/18 03:25	11/10/18 03:09	319-85-7	
delta-BHC	0.00012 U	mg/kg	0.0023	0.00012	1	11/08/18 03:25	11/10/18 03:09	319-86-8	
gamma-BHC (Lindane)	0.00020 U	mg/kg	0.0023	0.00020	1	11/08/18 03:25	11/10/18 03:09	58-89-9	
Chlordane (Technical)	0.021 U	mg/kg	0.023	0.021	1	11/08/18 03:25	11/10/18 03:09	57-74-9	
4,4'-DDD	0.00018 U	mg/kg	0.0023	0.00018	1	11/08/18 03:25	11/10/18 03:09	72-54-8	CH
4,4'-DDE	0.000082 U	mg/kg	0.0023	0.000082	1	11/08/18 03:25	11/10/18 03:09	72-55-9	
4,4'-DDT	0.00013 U	mg/kg	0.0023	0.00013	1	11/08/18 03:25	11/10/18 03:09	50-29-3	
Dieldrin	0.000054 U	mg/kg	0.0023	0.000054	1	11/08/18 03:25	11/10/18 03:09	60-57-1	
Endosulfan I	0.000033 U	mg/kg	0.0023	0.000033	1	11/08/18 03:25	11/10/18 03:09	959-98-8	
Endosulfan II	0.000076 U	mg/kg	0.0023	0.000076	1	11/08/18 03:25	11/10/18 03:09	33213-65-9	
Endosulfan sulfate	0.000058 U	mg/kg	0.0023	0.000058	1	11/08/18 03:25	11/10/18 03:09	1031-07-8	CH
Endrin	0.000070 U	mg/kg	0.0023	0.000070	1	11/08/18 03:25	11/10/18 03:09	72-20-8	
Endrin aldehyde	0.000088 U	mg/kg	0.0044	0.000088	1	11/08/18 03:25	11/10/18 03:09	7421-93-4	CH
Endrin ketone	0.00011 U	mg/kg	0.0023	0.00011	1	11/08/18 03:25	11/10/18 03:09	53494-70-5	CH
Heptachlor	0.000052 U	mg/kg	0.0023	0.000052	1	11/08/18 03:25	11/10/18 03:09	76-44-8	
Heptachlor epoxide	0.00015 U	mg/kg	0.0023	0.00015	1	11/08/18 03:25	11/10/18 03:09	1024-57-3	
Methoxychlor	0.0014 U	mg/kg	0.0023	0.0014	1	11/08/18 03:25	11/10/18 03:09	72-43-5	CH
Toxaphene	0.0098 U	mg/kg	0.023	0.0098	1	11/08/18 03:25	11/10/18 03:09	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	64	%	53-140		1	11/08/18 03:25	11/10/18 03:09	877-09-8	
Decachlorobiphenyl (S)	55	%	43-157		1	11/08/18 03:25	11/10/18 03:09	2051-24-3	CH
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	26.2	%	0.10	0.10	1		11/12/18 11:52		
2540G Total Volatile Solids									
Analytical Method: SM 2540G									
Total Volatile Solids	10.9	%	0.0010	0.0010	1		11/09/18 08:20		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Flager County Soil

Pace Project No.: 35429179

QC Batch: 491962 Analysis Method: EPA 8081
 QC Batch Method: EPA 3546 Analysis Description: 8081 GCS Pesticides
 Associated Lab Samples: 35429179001, 35429179002, 35429179003, 35429179004, 35429179005

METHOD BLANK: 2660622 Matrix: Solid
 Associated Lab Samples: 35429179001, 35429179002, 35429179003, 35429179004, 35429179005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
4,4'-DDD	mg/kg	0.00013 U	0.0017	0.00013	11/09/18 23:53	CH
4,4'-DDE	mg/kg	0.000061 U	0.0017	0.000061	11/09/18 23:53	
4,4'-DDT	mg/kg	0.000096 U	0.0017	0.000096	11/09/18 23:53	
Aldrin	mg/kg	0.000058 U	0.0017	0.000058	11/09/18 23:53	
alpha-BHC	mg/kg	0.000069 U	0.0017	0.000069	11/09/18 23:53	
beta-BHC	mg/kg	0.000077 U	0.0017	0.000077	11/09/18 23:53	
Chlordane (Technical)	mg/kg	0.016 U	0.017	0.016	11/09/18 23:53	
delta-BHC	mg/kg	0.000087 U	0.0017	0.000087	11/09/18 23:53	
Dieldrin	mg/kg	0.000040 U	0.0017	0.000040	11/09/18 23:53	
Endosulfan I	mg/kg	0.000025 U	0.0017	0.000025	11/09/18 23:53	
Endosulfan II	mg/kg	0.000057 U	0.0017	0.000057	11/09/18 23:53	
Endosulfan sulfate	mg/kg	0.000043 U	0.0017	0.000043	11/09/18 23:53	CH
Endrin	mg/kg	0.000052 U	0.0017	0.000052	11/09/18 23:53	
Endrin aldehyde	mg/kg	0.000066 U	0.0033	0.000066	11/09/18 23:53	CH
Endrin ketone	mg/kg	0.000080 U	0.0017	0.000080	11/09/18 23:53	CH
gamma-BHC (Lindane)	mg/kg	0.00015 U	0.0017	0.00015	11/09/18 23:53	
Heptachlor	mg/kg	0.000039 U	0.0017	0.000039	11/09/18 23:53	
Heptachlor epoxide	mg/kg	0.00011 U	0.0017	0.00011	11/09/18 23:53	
Methoxychlor	mg/kg	0.0010 U	0.0017	0.0010	11/09/18 23:53	CH
Toxaphene	mg/kg	0.0073 U	0.017	0.0073	11/09/18 23:53	
Decachlorobiphenyl (S)	%	108	43-157		11/09/18 23:53	CH
Tetrachloro-m-xylene (S)	%	93	53-140		11/09/18 23:53	

LABORATORY CONTROL SAMPLE: 2660623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	mg/kg	.017	0.018	106	71-137	CH
4,4'-DDE	mg/kg	.017	0.017	100	71-136	
4,4'-DDT	mg/kg	.017	0.018	107	62-140	
Aldrin	mg/kg	.017	0.016	97	67-128	
alpha-BHC	mg/kg	.017	0.016	96	68-130	
beta-BHC	mg/kg	.017	0.016	96	70-130	
delta-BHC	mg/kg	.017	0.016	99	45-123	
Dieldrin	mg/kg	.017	0.017	105	72-132	
Endosulfan I	mg/kg	.017	0.015	94	72-130	
Endosulfan II	mg/kg	.017	0.015	93	72-132	
Endosulfan sulfate	mg/kg	.017	0.017	105	68-130	CH
Endrin	mg/kg	.017	0.017	103	70-135	
Endrin aldehyde	mg/kg	.017	0.017	102	59-131	CH
Endrin ketone	mg/kg	.017	0.018	106	69-135	CH

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Flager County Soil
Pace Project No.: 35429179

LABORATORY CONTROL SAMPLE: 2660623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
gamma-BHC (Lindane)	mg/kg	.017	0.016	96	69-132	
Heptachlor	mg/kg	.017	0.016	94	68-131	
Heptachlor epoxide	mg/kg	.017	0.016	98	69-130	
Methoxychlor	mg/kg	.017	0.018	109	64-139	CH
Decachlorobiphenyl (S)	%			117	43-157	CH
Tetrachloro-m-xylene (S)	%			98	53-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2660693 2660694

Parameter	Units	2660693		2660694		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		35429179002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
4,4'-DDD	mg/kg	0.00017 U	.02	.022	0.018	0.018	85	85	71-137	1	40	CH
4,4'-DDE	mg/kg	0.000077 U	.02	.022	0.018	0.017	84	83	71-136	1	40	
4,4'-DDT	mg/kg	0.00012 U	.02	.022	0.018	0.018	84	85	62-140	2	40	
Aldrin	mg/kg	0.000074 U	.02	.022	0.018	0.019	87	88	67-128	3	40	
alpha-BHC	mg/kg	0.000088 U	.02	.022	0.018	0.019	85	88	68-130	5	40	
beta-BHC	mg/kg	0.000098 U	.02	.022	0.017	0.018	82	86	70-130	6	40	
delta-BHC	mg/kg	0.00011 U	.02	.022	0.017	0.018	83	85	45-123	3	40	
Dieldrin	mg/kg	0.000051 U	.02	.022	0.018	0.019	88	88	72-132	1	40	
Endosulfan I	mg/kg	0.000032 U	.02	.022	0.017	0.017	80	80	72-130	1	40	
Endosulfan II	mg/kg	0.000072 U	.02	.022	0.016	0.016	74	75	72-132	1	40	
Endosulfan sulfate	mg/kg	0.000055 U	.02	.022	0.017	0.017	82	83	68-130	2	40	CH
Endrin	mg/kg	0.000066 U	.02	.022	0.018	0.018	87	87	70-135	1	40	
Endrin aldehyde	mg/kg	0.000084 U	.02	.022	0.017	0.018	83	84	59-131	2	40	CH
Endrin ketone	mg/kg	0.00010 U	.02	.022	0.017	0.017	82	83	69-135	2	40	CH
gamma-BHC (Lindane)	mg/kg	0.00019 U	.02	.022	0.018	0.018	84	88	69-132	5	40	
Heptachlor	mg/kg	0.000050 U	.02	.022	0.018	0.018	84	86	68-131	3	40	
Heptachlor epoxide	mg/kg	0.00014 U	.02	.022	0.018	0.018	84	86	69-130	2	40	
Methoxychlor	mg/kg	0.0013 U	.02	.022	0.017	0.018	83	86	64-139	3	40	CH
Decachlorobiphenyl (S)	%						86	91	43-157			CH
Tetrachloro-m-xylene (S)	%						87	92	53-140			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Flager County Soil
Pace Project No.: 35429179

QC Batch: 492905 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 35429179001, 35429179002, 35429179003, 35429179004, 35429179005

SAMPLE DUPLICATE: 2665682

Parameter	Units	35425021001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	2.1	2.1	2	5	

SAMPLE DUPLICATE: 2665683

Parameter	Units	35426118001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	98.1	98.6	0	5	

SAMPLE DUPLICATE: 2665684

Parameter	Units	35427817012 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	0.74	1.2	47	5	J(D6)

SAMPLE DUPLICATE: 2665685

Parameter	Units	35427817027 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	1.0	0.89	15	5	J(D6)

SAMPLE DUPLICATE: 2665686

Parameter	Units	35427817047 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	0.40	3.8	162	5	J(D6)

SAMPLE DUPLICATE: 2665687

Parameter	Units	35427983001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	81.1	79.3	2	5	

SAMPLE DUPLICATE: 2665688

Parameter	Units	35429018003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.9	8.2	4	5	

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QUALITY CONTROL DATA

Project: Flager County Soil

Pace Project No.: 35429179

SAMPLE DUPLICATE: 2665689

Parameter	Units	35427661016 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	63.8	64.3	1	5	

SAMPLE DUPLICATE: 2665690

Parameter	Units	35429243003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.2	4.3	29	5	J(D6)

SAMPLE DUPLICATE: 2665691

Parameter	Units	35429179005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.2	25.3	3	5	

SAMPLE DUPLICATE: 2665692

Parameter	Units	35429438002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	82.9	81.9	1	5	

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QUALITY CONTROL DATA

Project: Flager County Soil

Pace Project No.: 35429179

QC Batch: 492382

Analysis Method: SM 2540G

QC Batch Method: SM 2540G

Analysis Description: 2540G Total Volatile Solids

Associated Lab Samples: 35429179001, 35429179002, 35429179003, 35429179004, 35429179005

METHOD BLANK: 2662741

Matrix: Solid

Associated Lab Samples: 35429179001, 35429179002, 35429179003, 35429179004, 35429179005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Volatile Solids	%	0.0010 U	0.0010	0.0010	11/09/18 07:33	

SAMPLE DUPLICATE: 2662742

Parameter	Units	35428533001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Volatile Solids	%	65.5	64.8	1	5	

SAMPLE DUPLICATE: 2662743

Parameter	Units	35428534001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Volatile Solids	%	64.8	64.4	1	5	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Flager County Soil

Pace Project No.: 35429179

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U Compound was analyzed for but not detected.

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

J(D6) Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Flager County Soil

Pace Project No.: 35429179

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35429179001	FCWR-01	EPA 3546	491962	EPA 8081	492187
35429179002	FCWR-02	EPA 3546	491962	EPA 8081	492187
35429179003	FCWR-03	EPA 3546	491962	EPA 8081	492187
35429179004	FCWR-04	EPA 3546	491962	EPA 8081	492187
35429179005	FCWR-05	EPA 3546	491962	EPA 8081	492187
35429179001	FCWR-01	ASTM D2974-87	492905		
35429179002	FCWR-02	ASTM D2974-87	492905		
35429179003	FCWR-03	ASTM D2974-87	492905		
35429179004	FCWR-04	ASTM D2974-87	492905		
35429179005	FCWR-05	ASTM D2974-87	492905		
35429179001	FCWR-01	SM 2540G	492382		
35429179002	FCWR-02	SM 2540G	492382		
35429179003	FCWR-03	SM 2540G	492382		
35429179004	FCWR-04	SM 2540G	492382		
35429179005	FCWR-05	SM 2540G	492382		

REPORT OF LABORATORY ANALYSIS

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NO#: 35429179



CHAIN-OF-CUSTODY / Analytical Request Document
 e Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Required Client Information:
 Company: Aerostar SES
 Address: 535 Copper Commerce Drive
 Suite 300, Apopka, FL 32703
 Email: *Sarah.Riffe@Aerostar.net*
 Phone: *407-404-0932* Fax: *407-404-0932*
 Requested Due Date: *Standard*

Section B
 Required Project Information:
 Report To: Sarah Riffe
 Copy To:
 Purchase Order #: *M3010.0024.005.07*
 Project Name: Flagler County Soil
 Project #: *M3010.0024.005.07*

Section C
 Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: *tommy.carr@pacelabs.com*
 Pace Profile #: *9698-17*

Regulatory Agency:
 State / Location: *FL*

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	Received on	Ice	Sealed	Custody	Cooler	Samples	Intact	
			START	END																DATE
1	FCWR-01	SLG	11/7/18	1112	1 X	Sarah Riffe	11/7/18	1333	Sarah Riffe	11/7/18	1333									
2	FCWR-02			1213																
3	FCWR-03			1230																
4	FCWR-04			1150																
5	FCWR-05			1142																
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Requested Analysis Filtered (Y/N)

Analyses Test	Y/N
8081, TVS	X
Other	
Methanol	
Na2S2O3	
NaOH	
HCl	
HNO3	
H2SO4	
Unpreserved	
# OF CONTAINERS	
SAMPLE TEMP AT COLLECTION	

TEMP in C

DATE Signed: 11/7/18

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Sarah Riffe
 SIGNATURE of SAMPLER: *Sarah Riffe*



Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 13

Document Revised:
May 30, 2018
Issuing Authority:
Pace Florida Quality Office

WO# : 35429179 (CUR)

Project # PM: TAC **Due Date:** 11/16/18
Project Manager: CLIENT: AERAPO
Client:

Date and Initials of person:
Examining contents: NSB
Label: _____
Deliver: ARC
pH: _____

Thermometer Used: T338 **Date:** 11/07/18 **Time:** 1415 **Initials:** DDI

State of Origin: _____ For WV projects, all containers verified to $\leq 6^\circ\text{C}$

- Cooler #1 Temp. °C 34 (Visual) 70 (Correction Factor) 3.4 (Actual) Samples on ice, cooling process has begun
- Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun
- Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual) Samples on ice, cooling process has begun

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority
 Other _____

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: Yes No **Seals intact:** Yes No **Ice:** Wet Blue Dry None

Packing Material: Bubble Wrap Bubble Bags None Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

Comments:

Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody Filled Out	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Relinquished Signature & Sampler Name COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush TAT requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing acid/base preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments):

