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NO. LTC # **077-2015**

CITY CLERK'S OFFICE

LETTER TO COMMISSION

TO: Mayor Philip Levine and Members of the City Commission

FROM: Jimmy L. Morales, City Manager

DATE: February 20, 2015

SUBJECT: **FORMER PAR 3 GOLF COURSE UPDATE**

The purpose of this Letter to Commission (LTC) is to provide an update on the former Par 3 golf course property.

In November 2014, the City accepted fill material from the Florida Department of Transportation (FDOT) Alton Road project and the Faena project at 34 Street. The purpose was to reuse excess clean fill material generated by projects throughout the city so as to reduce the need to purchase newly mined material, which is more expensive and less sustainable. The only material accepted from FDOT was from areas of the project that did not have any environmental restrictions as determined by the FDOT Environmental Management Office. Attachment A provides the sampling results provided by the Faena for the material removed at 34 Street. While the material was determined to be clean by both sources before its delivery, the City observed potential concerns with the material and determined that independent testing was appropriate.

In December 2014, City staff engaged a consultant to sample the material to confirm that the material from both locations was in fact clean fill. In January 2015, the results from this secondary evaluation were received by the City. Miami-Dade County Department of Regulatory and Economic Resources Division of Environmental Resources Management (DERM) was contacted for further guidance on these results. DERM reviewed the reports provided by the FDOT and the Faena, as well as the samples the City collected from the site and determined that additional sampling was required. The City requested assistance from DERM regarding the additional sampling and provide guidance as to the soil's re-use potential. On February 5, DERM conducted additional sampling at the site and indicated that sampling results would be available within approximately a week. Nevertheless, I directed Public Works to remove the material once the Boat Show ended and traffic would not be disrupted.

On February 19, DERM provided the sample results in the form of a letter outlining their recommendations (Attachment B). Based upon the results, the City instructed a contractor to begin removal of the material from the site immediately at no cost to the City. Following the beginning of the removal activities today, DERM issued a Cease and Desist Order based upon questions regarding the disposal of the material. Shortly following the Order, DERM forwarded the February 19 letter to the Bayshore Home Owners Association. The Administration will be meeting with DERM next week to attempt to resolve their concerns so that we can continue with soil removal, proper disposal and sodding of the area.

Please let me know if you have any questions or comments.

Attachments: A – Faena (Saxony West) Soil Analytical Results
B – Letter from DERM dated February 19, 2015

MT/ETC/ESW/MKW

Attachment – A

Pace Analytical Services, Inc.
3610 Park Central Blvd N
Pompano Beach, FL 33064
954-582-4300

November 17, 2014

Richard Fesdijian
NV5
14486 Commerce Way
Hialeah, FL 33016

RE: Project: SAXONY WEST
Pace Project No.: 35163711

Dear Richard Fesdijian:
Enclosed are the analytical results for sample(s) received by the laboratory between November 13, 2014 and November 14, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Rossy Guima
rossy.guima@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SAXONY WEST
Pace Project No.: 35163711

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
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
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
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
Washington Certification #: C955
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: SAXONY WEST
Pace Project No.: 35163711

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35163711001	**B-1 S-10**	Solid	11/13/14 08:00	11/13/14 18:10
35163711002	**Stockpile Sample**	Solid	11/13/14 08:00	11/14/14 08:38

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SAMPLE ANALYTE COUNT

Project: SAXONY WEST
Pace Project No.: 35163711

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35163711001	**B-1 S-10**	EPA 8081	JLG	22	PASI-O
		EPA 8141	WFH	20	PASI-O
		EPA 8151	JTJ	11	PASI-O
		FL-PRO	JGW	3	PASI-O
		EPA 6010	CKJ	2	PASI-O
		EPA 7471	CKJ	1	PASI-O
		ASTM D2974-87	AJK	1	PASI-O
35163711002	**Stockpile Sample**	EPA 8081	JLG	22	PASI-O
		EPA 8141	WFH	20	PASI-O
		EPA 8151	JTJ	11	PASI-O
		FL-PRO	JGW	3	PASI-O
		EPA 6010	CKJ	2	PASI-O
		EPA 7471	CKJ	1	PASI-O
		ASTM D2974-87	AJK	1	PASI-O

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ANALYTICAL RESULTS

Project: SAXONY WEST
Pace Project No.: 35163711

Sample: B-1 S-10 **Lab ID: 35163711001** Collected: 11/13/14 08:00 Received: 11/13/14 18:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546								
Aldrin	**0.000069U**	mg/kg	0.0020	0.000069	1	11/14/14 16:15	11/15/14 00:56	309-00-2	
alpha-BHC	**0.000082U**	mg/kg	0.0020	0.000082	1	11/14/14 16:15	11/15/14 00:56	319-84-6	
beta-BHC	**0.000092U**	mg/kg	0.0020	0.000092	1	11/14/14 16:15	11/15/14 00:56	319-85-7	
delta-BHC	**0.00010U**	mg/kg	0.0020	0.00010	1	11/14/14 16:15	11/15/14 00:56	319-86-8	
gamma-BHC (Lindane)	**0.00018U**	mg/kg	0.0020	0.00018	1	11/14/14 16:15	11/15/14 00:56	58-89-9	
Chlordane (Technical)	**0.019U**	mg/kg	0.020	0.019	1	11/14/14 16:15	11/15/14 00:56	57-74-9	
4,4'-DDD	**0.00016U**	mg/kg	0.0020	0.00016	1	11/14/14 16:15	11/15/14 00:56	72-54-8	
4,4'-DDE	**0.0013 I**	mg/kg	0.0020	0.000073	1	11/14/14 16:15	11/15/14 00:56	72-55-9	
4,4'-DDT	**0.00045 I**	mg/kg	0.0020	0.00011	1	11/14/14 16:15	11/15/14 00:56	50-29-3	
Dieldrin	**0.00021 I**	mg/kg	0.0020	0.000048	1	11/14/14 16:15	11/15/14 00:56	60-57-1	
Endosulfan I	**0.000030U**	mg/kg	0.0020	0.000030	1	11/14/14 16:15	11/15/14 00:56	959-98-8	
Endosulfan II	**0.00017 I**	mg/kg	0.0020	0.000068	1	11/14/14 16:15	11/15/14 00:56	33213-65-9	
Endosulfan sulfate	**0.000051U**	mg/kg	0.0020	0.000051	1	11/14/14 16:15	11/15/14 00:56	1031-07-8	
Endrin	**0.000062U**	mg/kg	0.0020	0.000062	1	11/14/14 16:15	11/15/14 00:56	72-20-8	
Endrin aldehyde	**0.000079U**	mg/kg	0.0039	0.000079	1	11/14/14 16:15	11/15/14 00:56	7421-93-4	
Endrin ketone	**0.000095U**	mg/kg	0.0020	0.000095	1	11/14/14 16:15	11/15/14 00:56	53494-70-5	
Heptachlor	**0.000047U**	mg/kg	0.0020	0.000047	1	11/14/14 16:15	11/15/14 00:56	76-44-8	
Heptachlor epoxide	**0.00013U**	mg/kg	0.0020	0.00013	1	11/14/14 16:15	11/15/14 00:56	1024-57-3	
Methoxychlor	**0.0013U**	mg/kg	0.0020	0.0013	1	11/14/14 16:15	11/15/14 00:56	72-43-5	
Toxaphene	**0.0088U**	mg/kg	0.020	0.0088	1	11/14/14 16:15	11/15/14 00:56	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	53-130		1	11/14/14 16:15	11/15/14 00:56	877-09-8	
Decachlorobiphenyl (S)	68	%	10-130		1	11/14/14 16:15	11/15/14 00:56	2051-24-3	
8141 O/P Pesticides Microwave	Analytical Method: EPA 8141 Preparation Method: EPA 3546								
Atrazine	**0.0092U**	mg/kg	0.059	0.0092	1	11/13/14 23:00	11/14/14 11:46	1912-24-9	
Azinphos, methyl (Guthion)	**0.0046U**	mg/kg	0.020	0.0046	1	11/13/14 23:00	11/14/14 11:46	86-50-0	
Bromacil	**0.0**	mg/kg			1	11/13/14 23:00	11/14/14 11:46	314-40-9	N2
Carbophenothion (Trithion)	**0.0049U**	mg/kg	0.020	0.0049	1	11/13/14 23:00	11/14/14 11:46	786-19-6	
Chlorpyrifos	**0.0035U**	mg/kg	0.020	0.0035	1	11/13/14 23:00	11/14/14 11:46	2921-88-2	
Coumaphos	**0.013U**	mg/kg	0.020	0.013	1	11/13/14 23:00	11/14/14 11:46	56-72-4	
Diazinon	**0.0038U**	mg/kg	0.020	0.0038	1	11/13/14 23:00	11/14/14 11:46	333-41-5	
Dichlorvos	**0.0047U**	mg/kg	0.020	0.0047	1	11/13/14 23:00	11/14/14 11:46	62-73-7	
Dimethoate	**0.0038U**	mg/kg	0.020	0.0038	1	11/13/14 23:00	11/14/14 11:46	60-51-5	
Disulfoton	**0.0037U**	mg/kg	0.020	0.0037	1	11/13/14 23:00	11/14/14 11:46	298-04-4	
Ethion	**0.0042U**	mg/kg	0.020	0.0042	1	11/13/14 23:00	11/14/14 11:46	563-12-2	
Famphur	**0.0044U**	mg/kg	0.020	0.0044	1	11/13/14 23:00	11/14/14 11:46	52-85-7	
Malathion	**0.0037U**	mg/kg	0.020	0.0037	1	11/13/14 23:00	11/14/14 11:46	121-75-5	
Methyl parathion	**0.0053U**	mg/kg	0.020	0.0053	1	11/13/14 23:00	11/14/14 11:46	298-00-0	
Mevinphos	**0.0035U**	mg/kg	0.020	0.0035	1	11/13/14 23:00	11/14/14 11:46	7786-34-7	
Monocrotophos	**0.0085U**	mg/kg	0.039	0.0085	1	11/13/14 23:00	11/14/14 11:46	919-44-8	L3
Parathion (Ethyl parathion)	**0.0077U**	mg/kg	0.039	0.0077	1	11/13/14 23:00	11/14/14 11:46	56-38-2	
Phorate	**0.0068U**	mg/kg	0.039	0.0068	1	11/13/14 23:00	11/14/14 11:46	298-02-2	
Phosmet	**0.0086U**	mg/kg	0.020	0.0086	1	11/13/14 23:00	11/14/14 11:46	732-11-6	

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ANALYTICAL RESULTS

Project: SAXONY WEST
Pace Project No.: 35163711

Sample: B-1 S-10 **Lab ID: 35163711001** Collected: 11/13/14 08:00 Received: 11/13/14 18:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8141 O/P Pesticides Microwave	Analytical Method: EPA 8141 Preparation Method: EPA 3546								
Surrogates									
4-Chloro3nitrobenzotrifluoride	52	%	28.9-136.7		1	11/13/14 23:00	11/14/14 11:46		
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
Bentazon	**0.0023U**	mg/kg	0.0037	0.0023	1	11/14/14 08:00	11/14/14 19:28	25057-89-0	
2,4-D	**0.0089U**	mg/kg	0.037	0.0089	1	11/14/14 08:00	11/14/14 19:28	94-75-7	
Dalapon	**0.0072U**	mg/kg	0.036	0.0072	1	11/14/14 08:00	11/14/14 19:28	75-99-0	
2,4-DB	**0.020U**	mg/kg	0.074	0.020	1	11/14/14 08:00	11/14/14 19:28	94-82-6	
Dicamba	**0.0015U**	mg/kg	0.0037	0.0015	1	11/14/14 08:00	11/14/14 19:28	1918-00-9	
Dinoseb	**0.0018U**	mg/kg	0.0074	0.0018	1	11/14/14 08:00	11/14/14 19:28	88-85-7	
Pentachlorophenol	**0.0015**	mg/kg	0.0011	0.00096	1	11/14/14 08:00	11/14/14 19:28	87-86-5	
Picloram	**0.00063U**	mg/kg	0.0037	0.00063	1	11/14/14 08:00	11/14/14 19:28	1918-02-1	
2,4,5-T	**0.0013U**	mg/kg	0.0075	0.0013	1	11/14/14 08:00	11/14/14 19:28	93-76-5	
2,4,5-TP (Silvex)	**0.00094U**	mg/kg	0.0075	0.00094	1	11/14/14 08:00	11/14/14 19:28	93-72-1	
Surrogates									
2,4-DCAA (S)	84	%	66-130		1	11/14/14 08:00	11/14/14 19:28	19719-28-9	
FL-PRO Soil Microwave	Analytical Method: FL-PRO Preparation Method: EPA 3546								
Petroleum Range Organics	**31.3**	mg/kg	4.7	3.0	1	11/14/14 02:00	11/14/14 14:47		
Surrogates									
o-Terphenyl (S)	106	%	62-109		1	11/14/14 02:00	11/14/14 14:47	84-15-1	
N-Pentatriacontane (S)	106	%	42-159		1	11/14/14 02:00	11/14/14 14:47	630-07-09	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**6.7**	mg/kg	0.58	0.29	1	11/16/14 05:55	11/17/14 13:48	7440-38-2	
Lead	**0.69**	mg/kg	0.58	0.29	1	11/16/14 05:55	11/17/14 13:48	7439-92-1	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.0062**	mg/kg	0.0048	0.0024	1	11/17/14 10:29	11/17/14 15:41	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.4**	%	0.10	0.10	1		11/17/14 07:27		J(D6)

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ANALYTICAL RESULTS

Project: SAXONY WEST
Pace Project No.: 35163711

Sample: Stockpile Sample **Lab ID: 35163711002** Collected: 11/13/14 08:00 Received: 11/14/14 08:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3546								
Aldrin	**0.000063U**	mg/kg	0.0019	0.000063	1	11/14/14 16:15	11/15/14 23:37	309-00-2	
alpha-BHC	**0.000075U**	mg/kg	0.0019	0.000075	1	11/14/14 16:15	11/15/14 23:37	319-84-6	
beta-BHC	**0.000084U**	mg/kg	0.0019	0.000084	1	11/14/14 16:15	11/15/14 23:37	319-85-7	
delta-BHC	**0.000095U**	mg/kg	0.0019	0.000095	1	11/14/14 16:15	11/15/14 23:37	319-86-8	
gamma-BHC (Lindane)	**0.00016U**	mg/kg	0.0019	0.00016	1	11/14/14 16:15	11/15/14 23:37	58-89-9	
Chlordane (Technical)	**0.017U**	mg/kg	0.019	0.017	1	11/14/14 16:15	11/15/14 23:37	57-74-9	
4,4'-DDD	**0.00014U**	mg/kg	0.0019	0.00014	1	11/14/14 16:15	11/15/14 23:37	72-54-8	
4,4'-DDE	**0.00084 I**	mg/kg	0.0019	0.000067	1	11/14/14 16:15	11/15/14 23:37	72-55-9	
4,4'-DDT	**0.00028 I**	mg/kg	0.0019	0.00010	1	11/14/14 16:15	11/15/14 23:37	50-29-3	
Dieldrin	**0.000070 I**	mg/kg	0.0019	0.000044	1	11/14/14 16:15	11/15/14 23:37	60-57-1	
Endosulfan I	**0.000027U**	mg/kg	0.0019	0.000027	1	11/14/14 16:15	11/15/14 23:37	959-98-8	
Endosulfan II	**0.000062U**	mg/kg	0.0019	0.000062	1	11/14/14 16:15	11/15/14 23:37	33213-65-9	
Endosulfan sulfate	**0.000047U**	mg/kg	0.0019	0.000047	1	11/14/14 16:15	11/15/14 23:37	1031-07-8	
Endrin	**0.000057U**	mg/kg	0.0019	0.000057	1	11/14/14 16:15	11/15/14 23:37	72-20-8	
Endrin aldehyde	**0.000072U**	mg/kg	0.0036	0.000072	1	11/14/14 16:15	11/15/14 23:37	7421-93-4	
Endrin ketone	**0.000087U**	mg/kg	0.0019	0.000087	1	11/14/14 16:15	11/15/14 23:37	53494-70-5	
Heptachlor	**0.000043U**	mg/kg	0.0019	0.000043	1	11/14/14 16:15	11/15/14 23:37	76-44-8	
Heptachlor epoxide	**0.00012U**	mg/kg	0.0019	0.00012	1	11/14/14 16:15	11/15/14 23:37	1024-57-3	
Methoxychlor	**0.0011U**	mg/kg	0.0019	0.0011	1	11/14/14 16:15	11/15/14 23:37	72-43-5	
Toxaphene	**0.0080U**	mg/kg	0.019	0.0080	1	11/14/14 16:15	11/15/14 23:37	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	53-130		1	11/14/14 16:15	11/15/14 23:37	877-09-8	
Decachlorobiphenyl (S)	85	%	10-130		1	11/14/14 16:15	11/15/14 23:37	2051-24-3	
8141 O/P Pesticides Microwave	Analytical Method: EPA 8141 Preparation Method: EPA 3546								
Atrazine	**0.017U**	mg/kg	0.11	0.017	1	11/14/14 23:00	11/17/14 11:12	1912-24-9	
Azinphos, methyl (Guthion)	**0.0085U**	mg/kg	0.036	0.0085	1	11/14/14 23:00	11/17/14 11:12	86-50-0	
Bromacil	**0.0**	mg/kg			1	11/14/14 23:00	11/17/14 11:12	314-40-9	N2
Carbophenothion (Trithion)	**0.0089U**	mg/kg	0.036	0.0089	1	11/14/14 23:00	11/17/14 11:12	786-19-6	
Chlorpyrifos	**0.0064U**	mg/kg	0.036	0.0064	1	11/14/14 23:00	11/17/14 11:12	2921-88-2	
Coumaphos	**0.024U**	mg/kg	0.036	0.024	1	11/14/14 23:00	11/17/14 11:12	56-72-4	
Diazinon	**0.0069U**	mg/kg	0.036	0.0069	1	11/14/14 23:00	11/17/14 11:12	333-41-5	
Dichlorvos	**0.0085U**	mg/kg	0.036	0.0085	1	11/14/14 23:00	11/17/14 11:12	62-73-7	
Dimethoate	**0.0069U**	mg/kg	0.036	0.0069	1	11/14/14 23:00	11/17/14 11:12	60-51-5	
Disulfoton	**0.0068U**	mg/kg	0.036	0.0068	1	11/14/14 23:00	11/17/14 11:12	298-04-4	
Ethion	**0.0077U**	mg/kg	0.036	0.0077	1	11/14/14 23:00	11/17/14 11:12	563-12-2	
Famphur	**0.0080U**	mg/kg	0.036	0.0080	1	11/14/14 23:00	11/17/14 11:12	52-85-7	
Malathion	**0.0068U**	mg/kg	0.036	0.0068	1	11/14/14 23:00	11/17/14 11:12	121-75-5	
Methyl parathion	**0.0098U**	mg/kg	0.036	0.0098	1	11/14/14 23:00	11/17/14 11:12	298-00-0	
Mevinphos	**0.0064U**	mg/kg	0.036	0.0064	1	11/14/14 23:00	11/17/14 11:12	7786-34-7	
Monocrotophos	**0.016U**	mg/kg	0.072	0.016	1	11/14/14 23:00	11/17/14 11:12	919-44-8	
Parathion (Ethyl parathion)	**0.014U**	mg/kg	0.072	0.014	1	11/14/14 23:00	11/17/14 11:12	56-38-2	
Phorate	**0.012U**	mg/kg	0.072	0.012	1	11/14/14 23:00	11/17/14 11:12	298-02-2	
Phosmet	**0.016U**	mg/kg	0.036	0.016	1	11/14/14 23:00	11/17/14 11:12	732-11-6	

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ANALYTICAL RESULTS

Project: SAXONY WEST
Pace Project No.: 35163711

Sample: Stockpile Sample **Lab ID: 35163711002** Collected: 11/13/14 08:00 Received: 11/14/14 08:38 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8141 O/P Pesticides Microwave	Analytical Method: EPA 8141 Preparation Method: EPA 3546								
Surrogates									
4-Chloro3nitrobenzotrifluoride	56	%	28.9-136.7		1	11/14/14 23:00	11/17/14 11:12		
8151 Chlorinated Herbicides	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
Bentazon	**0.0021U**	mg/kg	0.0034	0.0021	1	11/14/14 08:00	11/14/14 19:58	25057-89-0	
2,4-D	**0.0082U**	mg/kg	0.034	0.0082	1	11/14/14 08:00	11/14/14 19:58	94-75-7	
Dalapon	**0.0066U**	mg/kg	0.033	0.0066	1	11/14/14 08:00	11/14/14 19:58	75-99-0	
2,4-DB	**0.018U**	mg/kg	0.068	0.018	1	11/14/14 08:00	11/14/14 19:58	94-82-6	
Dicamba	**0.0014U**	mg/kg	0.0034	0.0014	1	11/14/14 08:00	11/14/14 19:58	1918-00-9	
Dinoseb	**0.0016U**	mg/kg	0.0068	0.0016	1	11/14/14 08:00	11/14/14 19:58	88-85-7	
Pentachlorophenol	**0.00088U**	mg/kg	0.0010	0.00088	1	11/14/14 08:00	11/14/14 19:58	87-86-5	
Picloram	**0.00058U**	mg/kg	0.0034	0.00058	1	11/14/14 08:00	11/14/14 19:58	1918-02-1	
2,4,5-T	**0.0012U**	mg/kg	0.0068	0.0012	1	11/14/14 08:00	11/14/14 19:58	93-76-5	
2,4,5-TP (Silvex)	**0.00086U**	mg/kg	0.0069	0.00086	1	11/14/14 08:00	11/14/14 19:58	93-72-1	
Surrogates									
2,4-DCAA (S)	85	%	66-130		1	11/14/14 08:00	11/14/14 19:58	19719-28-9	
FL-PRO Soil Microwave	Analytical Method: FL-PRO Preparation Method: EPA 3546								
Petroleum Range Organics	**29.3**	mg/kg	11.0	7.0	1	11/14/14 17:30	11/15/14 10:39		
Surrogates									
o-Terphenyl (S)	89	%	62-109		1	11/14/14 17:30	11/15/14 10:39	84-15-1	
N-Pentatriacontane (S)	86	%	42-159		1	11/14/14 17:30	11/15/14 10:39	630-07-09	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**5.7**	mg/kg	0.53	0.26	1	11/16/14 05:55	11/17/14 13:53	7440-38-2	
Lead	**0.29 I**	mg/kg	0.53	0.26	1	11/16/14 05:55	11/17/14 13:53	7439-92-1	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**0.0031 I**	mg/kg	0.0044	0.0022	1	11/17/14 10:29	11/17/14 15:45	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.0**	%	0.10	0.10	1		11/17/14 07:28		

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QUALITY CONTROL DATA

Project: SAXONY WEST
Pace Project No.: 35163711

QC Batch: MERP/5098
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Associated Lab Samples: 35163711001, 35163711002

METHOD BLANK: 1058875
Matrix: Solid
Associated Lab Samples: 35163711001, 35163711002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	0.0020U	0.0041	11/17/14 15:37	

LABORATORY CONTROL SAMPLE: 1058876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.08	0.078	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1058877 1058878

Parameter	Units	35163908006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.068	.092	.088	0.14	0.14	73	80	80-120	3	20	J(M1)

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QUALITY CONTROL DATA

Project: SAXONY WEST
Pace Project No.: 35163711

QC Batch: MPRP/21509 | Analysis Method: EPA 6010
QC Batch Method: EPA 3050 | Analysis Description: 6010 MET Solid
Associated Lab Samples: 35163711001, 35163711002

METHOD BLANK: 1058523 | Matrix: Solid
Associated Lab Samples: 35163711001, 35163711002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	0.25U	0.50	11/17/14 12:17	
Lead	mg/kg	0.25U	0.50	11/17/14 12:17	

LABORATORY CONTROL SAMPLE: 1058524

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	12.5	12.1	97	80-120	
Lead	mg/kg	12.5	12.9	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1058525 1058526

Parameter	Units	35162667002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	5.4	81.7	79.8	84.6	81.6	97	95	75-125	4	20	
Lead	mg/kg	38.1	81.7	79.8	131	123	113	106	75-125	6	20	

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QUALITY CONTROL DATA

Project: SAXONY WEST
Pace Project No.: 35163711

QC Batch: OEXT/19690
QC Batch Method: EPA 3546
Analysis Method: EPA 8081
Analysis Description: 8081 GCS Pesticides
Associated Lab Samples: 35163711001, 35163711002

METHOD BLANK: 1057316
Matrix: Solid
Associated Lab Samples: 35163711001, 35163711002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	mg/kg	0.00013U	0.0017	11/15/14 17:21	
4,4'-DDE	mg/kg	0.000061U	0.0017	11/15/14 17:21	
4,4'-DDT	mg/kg	0.000096U	0.0017	11/15/14 17:21	
Aldrin	mg/kg	0.000058U	0.0017	11/15/14 17:21	
alpha-BHC	mg/kg	0.000069U	0.0017	11/15/14 17:21	
beta-BHC	mg/kg	0.000077U	0.0017	11/15/14 17:21	
Chlordane (Technical)	mg/kg	0.016U	0.017	11/15/14 17:21	
delta-BHC	mg/kg	0.000087U	0.0017	11/15/14 17:21	
Dieldrin	mg/kg	0.000040U	0.0017	11/15/14 17:21	
Endosulfan I	mg/kg	0.000025U	0.0017	11/15/14 17:21	
Endosulfan II	mg/kg	0.000057U	0.0017	11/15/14 17:21	
Endosulfan sulfate	mg/kg	0.000043U	0.0017	11/15/14 17:21	
Endrin	mg/kg	0.000052U	0.0017	11/15/14 17:21	
Endrin aldehyde	mg/kg	0.000066U	0.0033	11/15/14 17:21	
Endrin ketone	mg/kg	0.000080U	0.0017	11/15/14 17:21	
gamma-BHC (Lindane)	mg/kg	0.00015U	0.0017	11/15/14 17:21	
Heptachlor	mg/kg	0.000039U	0.0017	11/15/14 17:21	
Heptachlor epoxide	mg/kg	0.00011U	0.0017	11/15/14 17:21	
Methoxychlor	mg/kg	0.0010U	0.0017	11/15/14 17:21	
Toxaphene	mg/kg	0.0073U	0.017	11/15/14 17:21	
Decachlorobiphenyl (S)	%	93	10-130	11/15/14 17:21	
Tetrachloro-m-xylene (S)	%	87	53-130	11/15/14 17:21	

LABORATORY CONTROL SAMPLE: 1057317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	mg/kg	.017	0.017	103	64-132	
4,4'-DDE	mg/kg	.017	0.017	105	58-138	
4,4'-DDT	mg/kg	.017	0.016	97	65-130	
Aldrin	mg/kg	.017	0.016	98	64-130	
alpha-BHC	mg/kg	.017	0.016	99	67-130	
beta-BHC	mg/kg	.017	0.015	91	67-130	
delta-BHC	mg/kg	.017	0.014	87	50-130	
Dieldrin	mg/kg	.017	0.016	99	65-130	
Endosulfan I	mg/kg	.017	0.018	106	67-130	
Endosulfan II	mg/kg	.017	0.017	103	66-130	
Endosulfan sulfate	mg/kg	.017	0.017	104	61-134	
Endrin	mg/kg	.017	0.017	103	65-132	
Endrin aldehyde	mg/kg	.017	0.015	88	53-133	
Endrin ketone	mg/kg	.017	0.017	103	64-130	

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QUALITY CONTROL DATA

Project: SAXONY WEST
Pace Project No.: 35163711

LABORATORY CONTROL SAMPLE: 1057317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
gamma-BHC (Lindane)	mg/kg	.017	0.016	97	65-131	
Heptachlor	mg/kg	.017	0.016	99	65-130	
Heptachlor epoxide	mg/kg	.017	0.016	96	66-130	
Methoxychlor	mg/kg	.017	0.017	101	58-144	
Decachlorobiphenyl (S)	%			60	10-130	
Tetrachloro-m-xylene (S)	%			54	53-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1057645 1057646

Parameter	Units	35163393027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4,4'-DDD	mg/kg	0.14U ug/kg	.018	.018	0.020	0.012	111	69	64-132	47	40	J(R1)
4,4'-DDE	mg/kg	0.065U ug/kg	.018	.018	0.020	0.013	112	72	58-138	43	40	J(R1)
4,4'-DDT	mg/kg	0.10U ug/kg	.018	.018	0.017	0.011	97	61	65-130	45	40	J(M1), J(R1)
Aldrin	mg/kg	0.23 I ug/kg	.018	.018	0.015	0.011	85	60	64-130	33	40	J(M1)
alpha-BHC	mg/kg	0.074U ug/kg	.018	.018	0.015	0.011	83	59	67-130	34	40	J(M1)
beta-BHC	mg/kg	0.11 I ug/kg	.018	.018	0.014	0.010	78	56	67-130	33	40	J(M1)
delta-BHC	mg/kg	0.093U ug/kg	.018	.018	0.013	0.0083	72	47	50-130	43	40	J(M1), J(R1)
Dieldrin	mg/kg	7.0 ug/kg	.018	.018	0.025	0.016	101	51	65-130	43	40	J(M1), J(R1)
Endosulfan I	mg/kg	0.027U ug/kg	.018	.018	0.020	0.014	114	78	67-130	38	40	
Endosulfan II	mg/kg	0.061U ug/kg	.018	.018	0.020	0.016	110	90	66-130	20	40	
Endosulfan sulfate	mg/kg	0.046U ug/kg	.018	.018	0.015	0.0098	86	55	61-134	44	40	J(M1), J(R1)
Endrin	mg/kg	0.056U ug/kg	.018	.018	0.018	0.012	101	66	65-132	42	40	J(R1)
Endrin aldehyde	mg/kg	0.070U ug/kg	.018	.018	0.023	0.014	128	78	53-133	49	40	J(R1)
Endrin ketone	mg/kg	0.085U ug/kg	.018	.018	0.015	0.0097	85	54	64-130	44	40	J(M1), J(R1)
gamma-BHC (Lindane)	mg/kg	0.16U ug/kg	.018	.018	0.014	0.010	81	56	65-131	36	40	J(M1)
Heptachlor	mg/kg	0.042U ug/kg	.018	.018	0.015	0.011	85	62	65-130	32	40	J(M1)
Heptachlor epoxide	mg/kg	1.8 I ug/kg	.018	.018	0.017	0.012	84	55	66-130	37	40	J(M1)
Methoxychlor	mg/kg	1.3 I ug/kg	.018	.018	0.018	0.012	95	62	58-144	39	40	
Decachlorobiphenyl (S)	%						79	53	10-130			
Tetrachloro-m-xylene (S)	%						82	65	53-130			

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QUALITY CONTROL DATA

Project: SAXONY WEST
Pace Project No.: 35163711

QC Batch: OEXT/19664
QC Batch Method: EPA 3546
Analysis Method: EPA 8141
Analysis Description: 8141 Organophos Pests in soil
Associated Lab Samples: 35163711001

METHOD BLANK: 1055345
Matrix: Solid
Associated Lab Samples: 35163711001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Atrazine	mg/kg	0.0078U	0.050	11/13/14 11:39	
Azinphos, methyl (Guthion)	mg/kg	0.0039U	0.017	11/13/14 11:39	
Bromacil	mg/kg	0.0		11/13/14 11:39	N2
Carbophenothion (Trithion)	mg/kg	0.0041U	0.017	11/13/14 11:39	
Chlorpyrifos	mg/kg	0.0030U	0.017	11/13/14 11:39	
Coumaphos	mg/kg	0.011U	0.017	11/13/14 11:39	
Diazinon	mg/kg	0.0032U	0.017	11/13/14 11:39	
Dichlorvos	mg/kg	0.0040U	0.017	11/13/14 11:39	
Dimethoate	mg/kg	0.0032U	0.017	11/13/14 11:39	
Disulfoton	mg/kg	0.0031U	0.017	11/13/14 11:39	
Ethion	mg/kg	0.0036U	0.017	11/13/14 11:39	
Famphur	mg/kg	0.0037U	0.017	11/13/14 11:39	
Malathion	mg/kg	0.0031U	0.017	11/13/14 11:39	
Methyl parathion	mg/kg	0.0045U	0.017	11/13/14 11:39	
Mevinphos	mg/kg	0.0030U	0.017	11/13/14 11:39	
Monocrotophos	mg/kg	0.0072U	0.033	11/13/14 11:39	
Parathion (Ethyl parathion)	mg/kg	0.0065U	0.033	11/13/14 11:39	
Phorate	mg/kg	0.0058U	0.033	11/13/14 11:39	
Phosmet	mg/kg	0.0072U	0.017	11/13/14 11:39	
4-Chloro3nitrobenzotrifluoride	%	72	28.9-136.7	11/13/14 11:39	

LABORATORY CONTROL SAMPLE: 1055346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Atrazine	mg/kg	.2	0.22	110	58-130	
Azinphos, methyl (Guthion)	mg/kg	.067	0.081	121	47-143	
Bromacil	mg/kg	.13	0.0	0		N2
Carbophenothion (Trithion)	mg/kg	.067	0.071	107	53-130	
Chlorpyrifos	mg/kg	.067	0.063	95	60-130	
Coumaphos	mg/kg	.067	0.070	105	50-130	
Diazinon	mg/kg	.067	0.068	102	57-130	
Dichlorvos	mg/kg	.067	0.056	84	51-153	
Dimethoate	mg/kg	.067	0.087	131	42-144	
Disulfoton	mg/kg	.067	0.067	100	57-130	
Ethion	mg/kg	.067	0.061	92	57-130	
Famphur	mg/kg	.067	0.078	117	59-132	
Malathion	mg/kg	.067	0.069	104	47-160	
Methyl parathion	mg/kg	.067	0.063	94	57-130	
Mevinphos	mg/kg	.067	0.060	90	50-148	
Monocrotophos	mg/kg	.13	0.20	147	41-133	J(L0)

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QUALITY CONTROL DATA

Project: SAXONY WEST
Pace Project No.: 35163711

LABORATORY CONTROL SAMPLE: 1055346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Parathion (Ethyl parathion)	mg/kg	.13	0.15	112	54-130	
Phorate	mg/kg	.13	0.13	95	48-130	
Phosmet	mg/kg	.067	0.080	120	52-136	
4-Chloro3nitrobenzotrifluoride	%			75	28.9-136.7	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1055619 1055620

Parameter	Units	35163214001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Atrazine	mg/kg	0.010U	.26	.26	0.28	0.25	110	99	32-130	10	40	
Azinphos, methyl (Guthion)	mg/kg	0.0050U	.086	.086	0.10	0.089	121	105	10-164	14	40	
Bromacil	mg/kg	0.0	.17	.17	0.0	0.0	0	0				N2
Carbophenothion (Trithion)	mg/kg	0.0053U	.086	.086	0.093	0.082	109	97	35-138	12	40	
Chlorpyrifos	mg/kg	0.0038U	.086	.086	0.082	0.074	97	87	55-130	10	40	
Coumaphos	mg/kg	0.014U	.086	.086	0.096	0.082	113	97	41-130	15	40	
Diazinon	mg/kg	0.0041U	.086	.086	0.088	0.079	103	93	57-130	11	40	
Dichlorvos	mg/kg	0.0051U	.086	.086	0.071	0.059	83	69	73-130	19	40	J(M1)
Dimethoate	mg/kg	0.0041U	.086	.086	0.11	0.098	130	115	18-153	13	40	
Disulfoton	mg/kg	0.0040U	.086	.086	0.086	0.077	101	90	47-130	11	40	
Ethion	mg/kg	0.0045U	.086	.086	0.079	0.071	93	84	35-140	10	40	
Famphur	mg/kg	0.0047U	.086	.086	0.10	0.093	122	109	50-130	11	40	
Malathion	mg/kg	0.0040U	.086	.086	0.083	0.075	97	88	64-130	10	40	
Methyl parathion	mg/kg	0.0058U	.086	.086	0.083	0.074	97	87	50-130	11	40	
Mevinphos	mg/kg	0.0038U	.086	.086	0.075	0.066	88	78	54-134	12	40	
Monocrotophos	mg/kg	0.0092U	.17	.17	0.28	0.23	165	134	23-131	20	40	J(M0)
Parathion (Ethyl parathion)	mg/kg	0.0083U	.17	.17	0.20	0.18	116	104	49-130	11	40	
Phorate	mg/kg	0.0073U	.17	.17	0.16	0.14	96	85	38-130	12	40	
Phosmet	mg/kg	0.0092U	.086	.086	0.10	0.073	120	86	40-131	33	40	
4-Chloro3nitrobenzotrifluoride	%						58	58	28.9-136			

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QUALITY CONTROL DATA

Project: SAXONY WEST
Pace Project No.: 35163711

QC Batch: OEXT/19692
QC Batch Method: EPA 3546
Associated Lab Samples: 35163711002

Analysis Method: EPA 8141
Analysis Description: 8141 Organophos Pests in soil

METHOD BLANK: 1057380
Matrix: Solid
Associated Lab Samples: 35163711002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Atrazine	mg/kg	0.0078U	0.050	11/17/14 09:55	
Azinphos, methyl (Guthion)	mg/kg	0.0039U	0.017	11/17/14 09:55	
Bromacil	mg/kg	0.0		11/17/14 09:55	N2
Carbophenothion (Trithion)	mg/kg	0.0041U	0.017	11/17/14 09:55	
Chlorpyrifos	mg/kg	0.0030U	0.017	11/17/14 09:55	
Coumaphos	mg/kg	0.011U	0.017	11/17/14 09:55	
Diazinon	mg/kg	0.0032U	0.017	11/17/14 09:55	
Dichlorvos	mg/kg	0.0040U	0.017	11/17/14 09:55	
Dimethoate	mg/kg	0.0032U	0.017	11/17/14 09:55	
Disulfoton	mg/kg	0.0031U	0.017	11/17/14 09:55	
Ethion	mg/kg	0.0036U	0.017	11/17/14 09:55	
Famphur	mg/kg	0.0037U	0.017	11/17/14 09:55	
Malathion	mg/kg	0.0031U	0.017	11/17/14 09:55	
Methyl parathion	mg/kg	0.0045U	0.017	11/17/14 09:55	
Mevinphos	mg/kg	0.0030U	0.017	11/17/14 09:55	
Monocrotophos	mg/kg	0.0072U	0.033	11/17/14 09:55	
Parathion (Ethyl parathion)	mg/kg	0.0065U	0.033	11/17/14 09:55	
Phorate	mg/kg	0.0058U	0.033	11/17/14 09:55	
Phosmet	mg/kg	0.0072U	0.017	11/17/14 09:55	
4-Chloro3nitrobenzotrifluoride	%	84	28.9-136.7	11/17/14 09:55	

LABORATORY CONTROL SAMPLE: 1057381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Atrazine	mg/kg	.2	0.25	124	58-130	
Azinphos, methyl (Guthion)	mg/kg	.067	0.077	115	47-143	
Bromacil	mg/kg	.13	0.12	91		N2
Carbophenothion (Trithion)	mg/kg	.067	0.076	114	53-130	
Chlorpyrifos	mg/kg	.067	0.070	105	60-130	
Coumaphos	mg/kg	.067	0.073	109	50-130	
Diazinon	mg/kg	.067	0.075	112	57-130	
Dichlorvos	mg/kg	.067	0.064	96	51-153	
Dimethoate	mg/kg	.067	0.086	130	42-144	
Disulfoton	mg/kg	.067	0.073	109	57-130	
Ethion	mg/kg	.067	0.065	98	57-130	
Famphur	mg/kg	.067	0.080	120	59-132	
Malathion	mg/kg	.067	0.076	113	47-160	
Methyl parathion	mg/kg	.067	0.066	100	57-130	
Mevinphos	mg/kg	.067	0.060	89	50-148	
Monocrotophos	mg/kg	.13	0.15	111	41-133	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
3610 Park Central Blvd N
Pompano Beach, FL 33064
954-582-4300

QUALITY CONTROL DATA

Project: SAXONY WEST
Pace Project No.: 35163711

LABORATORY CONTROL SAMPLE: 1057381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Parathion (Ethyl parathion)	mg/kg	.13	0.14	107	54-130	
Phorate	mg/kg	.13	0.14	103	48-130	
Phosmet	mg/kg	.067	0.080	120	52-136	
4-Chloro3nitrobenzotrifluoride	%			79	28.9-136.7	

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QUALITY CONTROL DATA

Project: SAXONY WEST
Pace Project No.: 35163711

QC Batch: OEXT/19689
QC Batch Method: EPA 8151
Analysis Method: EPA 8151
Analysis Description: 8151 GCS Herbicides
Associated Lab Samples: 35163711001, 35163711002

METHOD BLANK: 1057102
Matrix: Solid
Associated Lab Samples: 35163711001, 35163711002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-T	mg/kg	0.0011U	0.0063	11/14/14 17:28	
2,4,5-TP (Silvex)	mg/kg	0.00079U	0.0063	11/14/14 17:28	
2,4-D	mg/kg	0.0075U	0.031	11/14/14 17:28	
2,4-DB	mg/kg	0.017U	0.063	11/14/14 17:28	
Bentazon	mg/kg	0.0019U	0.0031	11/14/14 17:28	
Dalapon	mg/kg	0.0061U	0.030	11/14/14 17:28	
Dicamba	mg/kg	0.0013U	0.0031	11/14/14 17:28	
Dinoseb	mg/kg	0.0015U	0.0063	11/14/14 17:28	
Pentachlorophenol	mg/kg	0.00080U	0.00094	11/14/14 17:28	
Picloram	mg/kg	0.00053U	0.0031	11/14/14 17:28	
2,4-DCAA (S)	%	100	66-130	11/14/14 17:28	

LABORATORY CONTROL SAMPLE: 1057103

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-T	mg/kg	.04	0.021	52	46-137	
2,4,5-TP (Silvex)	mg/kg	.04	0.047	118	63-133	
2,4-D	mg/kg	.2	0.20	100	40-137	
2,4-DB	mg/kg	.4	0.47	118	70-130	
Bentazon	mg/kg	.02	0.014	70	58-130	
Dalapon	mg/kg	.2	0.17	83	17-137	
Dicamba	mg/kg	.02	0.017	88	43-130	
Dinoseb	mg/kg	.04	0.0072	18	10-177	
Pentachlorophenol	mg/kg	.006	0.0071	119	70-144	
Picloram	mg/kg	.02	0.023	116	10-147	
2,4-DCAA (S)	%			99	66-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1057147 1057148

Parameter	Units	35163711001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4,5-T	mg/kg	0.0013U	.047	.047	0.026	0.026	55	55	46-137	.4	40	
2,4,5-TP (Silvex)	mg/kg	0.00094U	.047	.047	0.055	0.050	116	106	63-133	9	40	
2,4-D	mg/kg	0.0089U	.24	.24	0.22	0.21	94	90	40-137	4	40	
2,4-DB	mg/kg	0.020U	.47	.47	0.50	0.50	105	107	70-130	1	40	
Bentazon	mg/kg	0.0023U	.024	.024	0.027	0.026	115	111	58-130	4	40	
Dalapon	mg/kg	0.0072U	.24	.24	0.092	0.081	39	34	17-137	13	40	
Dicamba	mg/kg	0.0015U	.024	.024	0.016	0.015	69	62	43-130	11	40	

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REPORT OF LABORATORY ANALYSIS

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954-582-4300

QUALITY CONTROL DATA

Project: SAXONY WEST
Pace Project No.: 35163711

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1057147 1057148

Parameter	Units	35163711001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dinoseb	mg/kg	0.0018U	.047	.047	0.0061 I	0.0074 I	13	16	10-177		40	
Pentachlorophenol	mg/kg	0.0015	.0071	.0071	0.0073	0.0087	83	103	70-144	17	40	
Picloram	mg/kg	0.00063U	.024	.024	0.015	0.017	64	70	10-147	10	40	
2,4-DCAA (S)	%						94	91	66-130			

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QUALITY CONTROL DATA

Project: SAXONY WEST
Pace Project No.: 35163711

QC Batch: OEXT/19683
QC Batch Method: EPA 3546
Associated Lab Samples: 35163711001

Analysis Method: FL-PRO
Analysis Description: FL-PRO Soil

METHOD BLANK: 1056611 Matrix: Solid
Associated Lab Samples: 35163711001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Petroleum Range Organics	mg/kg	2.5U	4.0	11/14/14 08:02	
N-Pentatriacontane (S)	%	105	42-159	11/14/14 08:02	
o-Terphenyl (S)	%	110	62-109	11/14/14 08:02	S3

LABORATORY CONTROL SAMPLE: 1056612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/kg	200	209	104	63-153	
N-Pentatriacontane (S)	%			110	42-159	
o-Terphenyl (S)	%			110	62-109	S7

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1056858 1056859

Parameter	Units	35163467002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Petroleum Range Organics	mg/kg	2.5U	199	200	204	200	102	100	63-153	2	20	
N-Pentatriacontane (S)	%						106	110	42-159			
o-Terphenyl (S)	%						110	109	62-109			S7

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QUALITY CONTROL DATA

Project: SAXONY WEST
Pace Project No.: 35163711

QC Batch: OEXT/19694
QC Batch Method: EPA 3546
Associated Lab Samples: 35163711002

Analysis Method: FL-PRO
Analysis Description: FL-PRO Soil

METHOD BLANK: 1057407
Matrix: Solid
Associated Lab Samples: 35163711002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Petroleum Range Organics	mg/kg	2.5U	4.0	11/15/14 09:37	
N-Pentatriacontane (S)	%	96	42-159	11/15/14 09:37	
o-Terphenyl (S)	%	97	62-109	11/15/14 09:37	

LABORATORY CONTROL SAMPLE: 1057408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Petroleum Range Organics	mg/kg	197	210	107	63-153	
N-Pentatriacontane (S)	%			99	42-159	
o-Terphenyl (S)	%			100	62-109	

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QUALITY CONTROL DATA

Project: SAXONY WEST
Pace Project No.: 35163711

QC Batch: PMST/2947
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 35163711001, 35163711002

SAMPLE DUPLICATE: 1058845

Parameter	Units	35163711001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.4	12.9	18	10	J(D6)

SAMPLE DUPLICATE: 1058846

Parameter	Units	35163908009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.7	5.1	12	10	J(D6)

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954-582-4300

QUALIFIERS

Project: SAXONY WEST
Pace Project No.: 35163711

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.
J(D6)	Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
J(L0)	Estimated Value. Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
J(M0)	Estimated Value. Matrix spike recovery was outside laboratory control limits.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(R1)	Estimated Value. RPD value was outside control limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
N2	The lab does not hold TNI accreditation for this parameter.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
S7	Surrogate recovery outside control limits (not confirmed by re-analysis).

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954-582-4300

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SAXONY WEST
Pace Project No.: 35163711

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35163711001	**B-1 S-10**	EPA 3546	OEXT/19690	EPA 8081	GCSV/12935
35163711002	**Stockpile Sample**	EPA 3546	OEXT/19690	EPA 8081	GCSV/12935
35163711001	**B-1 S-10**	EPA 3546	OEXT/19664	EPA 8141	GCSV/12921
35163711002	**Stockpile Sample**	EPA 3546	OEXT/19692	EPA 8141	GCSV/12939
35163711001	**B-1 S-10**	EPA 8151	OEXT/19689	EPA 8151	GCSV/12931
35163711002	**Stockpile Sample**	EPA 8151	OEXT/19689	EPA 8151	GCSV/12931
35163711001	**B-1 S-10**	EPA 3546	OEXT/19683	FL-PRO	GCSV/12924
35163711002	**Stockpile Sample**	EPA 3546	OEXT/19694	FL-PRO	GCSV/12932
35163711001	**B-1 S-10**	EPA 3050	MPRP/21509	EPA 6010	ICP/13168
35163711002	**Stockpile Sample**	EPA 3050	MPRP/21509	EPA 6010	ICP/13168
35163711001	**B-1 S-10**	EPA 7471	MERP/5098	EPA 7471	MERC/5091
35163711002	**Stockpile Sample**	EPA 7471	MERP/5098	EPA 7471	MERC/5091
35163711001	**B-1 S-10**	ASTM D2974-87	PMST/2947		
35163711002	**Stockpile Sample**	ASTM D2974-87	PMST/2947		

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WO#: 35163711

35163711

ORD

_____ Page___of___

Company Name: NV5 PO#

Address: 14486 COMMERCE WAY

City: MIAMI LAKES State: FL Zip: 33016

Attn: ROSSY GUIMA Fax#

email: RICHARD.FESDIJIAN@NV5.COM Phone: 3|901 1921

Project Name SAXONY WEST Proj # 146214

Sampler Signature

Circle One Event: Daily Weekly Monthly Quartely Semi-Annual Annual N/A

LAB ANALYSIS

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code*	Field Filtered	Integrity OK(Y/N)	Total # of containers	ARSENIC	LEAD	MERCURY	FLPRO	ORGA. PES. 8141	ORGA. PES. 8081	ORGA. HERB. 8151			EXAMPLE Diss. Lead 6010
								# of Containers Size/Type									1 16ozP
1	B-1 S-10							✓	✓	✓	✓	✓	✓	✓			
2	STOCK PILE SAMPLE							✓	✓	✓	✓	✓	✓	✓			
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Circle T.A.T. REQUEST (Rush Fees Approval)

Standard: Y N

RUSH: Today 1D 2D 3D 4D 5D ___

Short Hold: Y_____ N_____

Circle QA/QC Report Level: 1 2 3 4 CLP AFCEE QAPP Other_____

EDD (Fees May Apply): ADaPT SEDD ERPIMS TSV CSV Other _____

COC Condition: OK Incomplete

Required State Certification: FL GA SC NC NJ PA LA TX IL ___

Coolers #'s - Temp °C: 1 ___ 2 ___ 3 ___ 4 ___ 5 ___

Item	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1	[signature]		11/13/14	10:30	[signature]	PACE	11/13/14	10:30
2	[signature]	PACE	11/13/14	10:39			11/13/14	16
3	[signature]	[signature]	11/13/14	1840				
4								

Lab Use Only

	Yes	No	N/A
Non-Conformance Found?			
Samples INTACT upon arrival?			
Received on Wet Ice?			
Proper Preservatives Indicated?			
Received within holding time?			
Custody seals Intact?			
Volatiles rec'd without headspace?			
Proper Containers Used?			

Container Type Codes

AV	Amber Vial	ES	Encore Sampler
CV	Clear Vial	PPV	Prepreserved vial
P	Plastic	PL C	Plastic container
AL	Amber Liter	PL J	Plastic Jar
CL	Clear Liter	Z	Ziploc bag
AP	Amber Plastic	TB	Tedlar bag
AG	Amber Glass	WP	Whirl pak
SJ	Soil Jar	G	Gallon Jug
Other_____		TC	Terra-core

PPV Prepreserved vial

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz or 1L, other_____ 40ml 500ml 250ml 125 ml

Example: 4ozP = 4oz Plastic, 8ozSJ= 8oz Soil Jar

Matrix Codes

SD	Solid Waste	OL	Oil
GW	Ground Water	SL	Sludge
EFF	Effluent	SO	Soil Sediment
AFW	Analyte Free H20	AQ	Aqueous
WW	Waste Water	NA	Nonaqueous
DW	Drinking Water	PE	Petroleum
SW	Surface Water	O	Other_____ (Please specify)
ML	Misc. Liquid		

Preservative Type Codes

A. None	E. HCL	I. Ice
B. HNO3	F. MeOH	J. MCAA
C. H2SO4	G. Na2S2O3	K. Zn Acetate
D. NaOH	H. NaHSO4	O. Other

REMARKS

2 DAY RUSH

Pompano Lab 954-582-4300 Revision: F•ALL•C•007- Rev.00

C.O.C. Serial # 75932

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: October 9, 2013
	Document No.: F-FL-C-007 rev. 05	Issuing Authorities: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

WO#: 35163711

PM: RYG **Due Date: 11/18/14**

CLIENT: 36-KACO

Client Name: NVS

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

Date and Initials of person examining contents: _____

Thermometer Used T109 Type of Ice: Wet Blue None

Cooler Temperature °C 4.3 (Visual) 0.0 (Correction Factor) 4.3 (Actual)

(Temp should be above freezing to 6°C). If below 0°C, then was sample frozen? ☐ Yes ☑ No

Receipt of samples satisfactory: ☑ Yes ☐ No Rush TAT requested on COC:

If yes, then all conditions below were met:	If no, then mark box & describe issue (use comments area if necessary):
Chain of Custody Present	☐
Chain of Custody Filled Out	☐
Relinquished Signature & Sampler Name COC	☐
Samples Arrived within Hold Time	☐
Sufficient Volume	☐
Correct Containers Used	☐
Containers Intact	☐
Sample Labels match COC (sample IDs & date/time of collection)	☐ No Labels: ☐ No Time/Date on Labels: ☐
All containers needing preservation are found to be in compliance with EPA recommendation.	☐
No Headspace in VOA Vials (>6mm):	☐

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____ Date: _____

Finished Product Information Only

F.P. Sample ID: _____

Production Code: _____

Date/Time Opened: _____

Number of Unopened Bottles Remaining: _____

Extra Sample in Shed: Yes No

Size & Qty of Bottles Received

_____ x 5 Gal
_____ x 2.5 Gal
_____ x 1 Gal
_____ x 1 Liter
_____ x 500 mL
_____ x 250 mL
_____ x Other: _____

MIAMI-DADE COUNTY

Carlos A. Gimenez, Mayor

Department of Regulatory and Economic Resources
Environmental Resources Management
701 NW 1st Court, 4th Floor
Miami, Florida 33136-3912
T 305-372-6700 F 305-372-6982

miamidade.gov

February 19, 2015
CERTIFIED MAIL NO. 7013 2630 0001 2418 6941
RETURN RECEIPT REQUESTED

Jimmy L. Morales, City Manager
City of Miami Beach
1700 Convention Center Drive
Miami Beach, FL 33139

Re: Soil Re-Use evaluation for soils from the Faena site at 34 Street and Collins Avenue and from the FDOT Alton Road Project between Michigan Avenue and Dade Blvd. and stored on the west side of the Par 3 Golf Course (tracked under SW-1360 File-9507) located at, near, or in the vicinity of Praire Avenue and 28 Street, Miami Beach, Miami-Dade County, Florida.

Dear Mr. Morales:

The Department of Regulatory and Economic Resources-Division of Environmental Resources Management (DERM) has conducted site inspections and obtained soil samples from the above referenced soils currently being stored on the west side of the City of Miami beach Par 3 Golf course. The inspections and sampling were conducted by DERM based on a request for soil re-use initiated by the City of Miami Beach in an email dated January 23, 2015. Based on an Inspection conducted by DERM on February 5, 2015, several distinct groups of soil piles were noted including grey sand, organic peat mixed with marl, organic top soil, and mixed aggregate with organics. Significant portions of the various types of soil were also noted to be spread across the west side of the Par 3 golf course along with a western berm of said material. Analytical soil samples for chemicals of concern ranging from VOCs, TRPH, PAHs, Metals, TOC, and Chloride were obtained from representative locations within the distinct soil piles. The following comments are provided based on the DERM inspection and sample results:

1. Solid waste consisting of brick, tiles, PVC, plastic, rebar, metal and other various material were noted in several soil piles and graded areas. Based on an initial screening, the solid waste impacted material was noted primarily in the southern half of the soil stock pile area as depicted on the attached map. Be advised that all soil piles and distributed/graded material that contains solid waste shall be removed and properly disposed.

   In the event that the City of Miami Beach elects to separate the solid waste material for potential re-use of the remaining screened material, be advised that specific approval from the Department is required to re-use the recovered screened material (e.g. screening). You may submit a separate Corrective Action Plan (CAP) for review and approval of a one-time processing (i.e., mechanical screening) and appropriate disposal of solid waste. Please contact Rashid Istambouli, P.E., of DERMs' Pollution Regulation Division for further information.

2. Regardless of the presence of solid waste, all top soil either stored in piles or distributed/graded across the site shall require removal and proper disposal. Arsenic levels up to 19 mg/kg and exceeding the barrier islands background level of 5.2 mg/kg were identified in multiple soil piles. Therefore, screening and removal of solid waste is not an option and disposal of the entire piles representing this material shall be properly disposed. The locations of these piles were noted in the southern portion of the site.

3. Regardless of the presence of solid waste, the soil piles located on the northern end of the site as depicted in the attached map require removal and proper disposal based on the presence of strong petroleum odors which constitute a nuisance condition in accordance with Chapter 24, Code of Miami-Dade County.

4. Please note that per the February 2, 2015 DERM email and based on existing information at that time, a minimum of 6 representative samples from the Faena sand were required per the soil re-use guidance. However, subsequent to this email and as observed during the February 5, 2015 DERM inspection, the Faena sand has been distributed and graded throughout the western portion of the PAR 3 golf course, including mixing with other material present at the site. Based on the above and as part of the required CAP, a soil sampling plan to include installing representative soil borings through the distribution area of the Faena sand is required. The plan shall clearly identify on a scaled map the distribution area and depth of the Faena sand.

5. Be advised that a follow-up inspection conducted by DERM on February 18, 2015 identified that additional material of unknown origin has been deposited and is being stored at the subject site. Reference additional piles located immediately to the west of the soil piles with petroleum odors. The origin of this material shall be provided and a plan for appropriately characterizing this material shall also be included in the CAP.

Based on the above, within thirty (30) days upon receipt of this letter submit a CAP addressing the above comments. Be advised that the CAP shall contain a site map clearly depicting the areas intended for removal and disposal based on the material composition described above. Upon receipt, DERM will schedule a site visit to confirm the data submitted in the CAP. Be advised that the referenced soils shall not be removed, relocated, or distributed across the site without DERM approval.

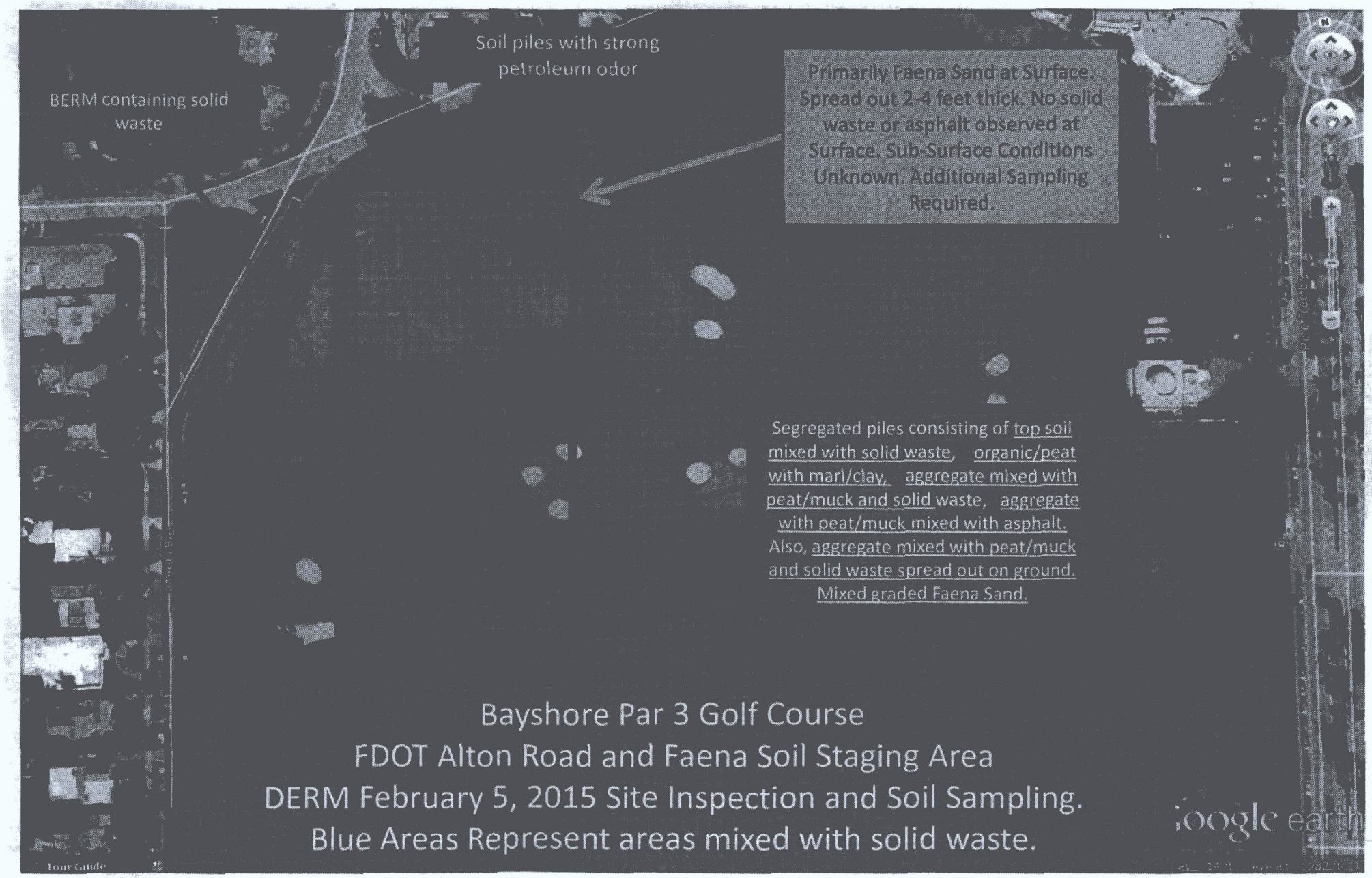
Please also find attached the results of the February 5, 2015 DERM soil pile samples.

DERM shall be notified in writing a minimum of three (3) working days prior to the implementation of any field activities. Email notifications shall be directed to DERMPCD@miamidade.gov. Please include the DERM file number on all correspondence.

If you have any questions concerning the above, please contact Thomas Kux, P.G. (Kuxt@miamidade.gov) of the Environmental Assessment Section at (305) 372-6700.

Sincerely,

Wilbur Mayorga, P.E., Chief
Environmental Monitoring & Restoration Division
TK
attach
ec: Lee Hefty, Mayra Flagler, Rashid Istambouli P.E., Johnny Vega P.E., DERM
Margarita Wells, City of Miami Beach, MargaritaWells@miamibeachfl.gov
Betsy Wheaton, City of Miami Beach, ewheaton@miamibeachfl.gov
Bruce Mowry, City of Miami Beach, BruceMowry@miamibeachfl.gov


BERM containing solid waste
Soil piles with strong petroleum odor
Primarily Faena Sand at Surface. Spread out 2-4 feet thick. No solid waste or asphalt observed at Surface. Sub-Surface Conditions Unknown. Additional Sampling Required.
Segregated piles consisting of top soil mixed with solid waste, organic/peat with marl/clay, aggregate mixed with peat/muck and solid waste, aggregate with peat/muck mixed with asphalt. Also, aggregate mixed with peat/muck and solid waste spread out on ground. Mixed graded Faena Sand.
Bayshore Par 3 Golf Course
FDOT Alton Road and Faena Soil Staging Area
DERM February 5, 2015 Site Inspection and Soil Sampling.
Blue Areas Represent areas mixed with solid waste.
Google earth
Tour Guide