



Polh
Brookh
2/16/11

Florida Department of Environmental Protection
Twin Towers Office Bldg, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400
Residuals Annual Summary

FEB 14 2011

Southwest District

Part I - Facility Information

FACILITY NAME: **Brooker Septic Service Inc**

FACILITY ID: **FLA302341**

MAILING ADDRESS: **149 East Bay Blvd South
Lake Wales FL 33859**

MONITORING PERIOD -- From: **JAN 1, 2010** To: **DEC 31, 2010**

Total Quantity of Residuals Applied During Reporting Period: **22.05** dry tons

Total Number of Residuals Land Application Sites Used During Reporting Period: **3** (Parts II and III should address all residuals land application sites used)

Update of Residuals Characteristics (arithmetic average of all samples taken pursuant to Rule 62-640.650(1), F.A.C., during the reporting period):

Parameter	Units*	Ceiling Limits for Class A and B	Concentration	Parameter (continued)	Units*	Ceiling Limits for Class A and B	Concentration
Total Nitrogen	%	N/A	4.39	Copper	mg/kg	4300	438
Total Phosphorus	%	N/A	1.15	Lead	mg/kg	840	33.9
Total Potassium	%	N/A	0.456	Mercury	mg/kg	57	0.576
Total Solids	%	N/A	1.18	Molybdenum	mg/kg	75	13.6
pH	std. units	N/A	10.32	Nickel	mg/kg	420	6.30
Arsenic	mg/kg	75	35.5	Selenium	mg/kg	100	26.7
Cadmium	mg/kg	85	3.26	Zinc	mg/kg	7500	1240

*All units are in a dry weight basis except for total solids and pH. All sampling and analysis shall be conducted pursuant to Title 40 Code of Federal Regulations, Section 503.8, and the POTW Sludge Sampling and Analysis Guidance Document.
N/A = not applicable

Pathogen Reduction Class (Rule 62-640.600(1), F.A.C.): ☐ A ☒ B

EPA Vector Attraction Reduction Option (Rule 62-640.600(2), F.A.C.):

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☒ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT (Type or Print)	TELEPHONE NO.
<i>Cynthia Mora</i>	<i>(813) 676-7645</i>
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE (YY/MM/DD)
<i>Cynthia Mora</i>	<i>02/10/11</i>

Part III. Total Residuals or Septage, Nutrients, and Trace Elements Applied to Application Zones Used by Multiple Facilities (attach separate page for "other solids," if applicable):

Site Name (as identified in Agricultural Use Plan): Brooker Septic Service Inc

Site Address (as shown in Agricultural Use Plan): 1995 Lake Buffum Rd East Fort Meade Fl 33841

Application Zone ID(s)	Crop(s)	Facility	Dry Tons Applied per Acre	N	P	K	As	Cd	Cu	Pb	Hg	Ni	Se	Zn
Zone 1 A	Bahala	Brooker	14.37	122.72	32.15	12.75	0.099	0.009	1.224	0.094	0.002	0.018	0.075	3.466
		Carefree	1.114	13.07	3.79	1.23	0.001	0.0007	0.175	0.005	7.663	0.005	0.006	0.226
		Parakeet	0.50	7.19	2.94	1.06	0.000	9.70	0.015	0.00	2.94	0.00	0.00	0.065
		2009 Year End Totals					0.1294	0.0482	7.745	0.8944	4.7133	0.2054	0.1350	12.56
Annual Total							0.100	9.70	1.414	0.099	10.61	0.023	0.08	3.757
Cumulative Total							0.2294	9.748	9.159	0.9934	15.32	0.228	0.215	16.32
Zone 1 B	Bahala	Brooker	X n/a											
		Carefree	X n/a											
		Parakeet	X n/a											
		2009 Year End Totals					0.167	0.0015	0.2333	0.0114	0.0002	0.0034	0.0126	0.4146
Annual Total														
Cumulative Total							0.167	0.0015	0.2333	0.0014	0.0002	0.0034	0.0126	0.4146
Zone 2	Bahala	Brooker	7.68	62.46	16.36	6.488	0.051	0.005	0.623	0.048	0.001	0.009	0.037	1.764
		Carefree	2.96	32.37	9.38	3.055	0.008	0.000	0.175	0.001	7.66	0.005	0.001	0.226
		Parakeet	n/a											
		2009 Year End Totals					0.3651	0.1427	25.05	3.86	0.661	0.5372	1.336	47.66
Annual Total							0.059	0.005	0.798	0.049	7.661	0.014	0.038	1.99
Cumulative Total							0.424	0.148	25.85	3.91	8.03	0.551	1.374	49.65

(Enter nutrients and trace elements in lbs/acre.)

Part IV. Hauling Records Summary For Calendar Year 2010 (For Residuals Management Facilities Only)

Source WWTP ID	Source WWTP Name	Quantity of Residuals Received (Dry Tons)	Comments
Bonnet Lake Resort	8,000	0.393648	
Camp Inn	108,000	5.3142480	
Camp Mack	12,000	0.590472	
Crooked Lake	13,000	0.639678	
Cypress Gardens Camp	0		
Frostproof Lakefront	0		
Highlandwheel Estates	0		
Jennings Fish Camp	8,000	0.393648	
Kissimmee River MHP	16,000	0.787296	
LaCasa	0		
Lake Josephine	8,000	0.393648	
Lakemonte Ridge	7,000	0.34442	
Lake Wales Country Club	0		
Maserpiece Gardens	0		
Orange Acres	28,000	1.377768	
Paradise Village	12, 000	0.590472	
Saddlebag Lake	79,000	3.887274	
Sunset Shores	4,000	0.196824	
Webber University	0		
Whispering Pines	16,000	0.7872960	
Winterset Shores	5,000	0.24603	
Southern Pines	12,000	0.590472	
Florida Lions Camp	4,000	0.196824	

Florida Analytical, Inc.

4320 Old Hwy. 37 Lakeland, FL 33813 (863) 646-8526 Fax: (863) 646-1042

"A Laboratory Management Partner"

Polk Environmental

P. O. Box 604

Project **Brooker Septic**

Description

Lake Wales, FL 33859

Lab Order Number **10-167-0223**

Received **06/18/10**

Lab ID **1006378-001**

Matrix **Sludge**

Field ID **Sludge 503 6/8/10-6/16/10**

Sampled **06/16/10**

Sample Number **53651**

Report of Analysis

Inorganics							Date/Time		Analytical	Batch
Compound	CAS	Result	Units	MDL	PQL	DF	Analyzed	By	Method	ID
Percent Moisture	MOIST	98.93	wt%	1.00	1.00	1	06/22/10 16:00	LD1	2540B	45216

Analyses performed by ETC, Inc. FDOH ID E87943

* Surrogate Recovery outside accepted limits
L Concentration exceeds the est. method calibration range
PQL Practical Quantitation Limit (factored).
U Analyzed for but not detected.

I Estimated Value. Presence was confirmed but < PQL
MDL. Method Detection Limit (factored).
Q. Sample analyzed beyond recommended holding time
V Analyte detected in the associated Method Blank

06/25/10

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"A Laboratory Management Partner"

Polk Environmental
P. O. Box 604

Project **Brooker Septic**
Description

Lake Wales, FL 33859

Lab Order Number **10-167-0223**
Lab ID **1006378-001A**
Field ID **Sludge 503 6/8/10-6/16/10**
Sample Number **53651**

Received **06/18/10** ✓
Matrix **Sludge**
Sampled **06/16/10**
Report of Analysis

ICP Metals

Prep Method	3050B	Prep Batch	29966	Date/Time	Prepped	06/23/10 10:02	Analytical Batch	45264	
		Final Volume	50 mL						
Compound	CAS	Result	Units	MDL	PQL	DF	Date/Time Analyzed	By	Analytical Method
Arsenic	7440-38-2	35.5 U ✓	mg/Kg-dry	35.5	93.5	1	06/25/10 5:20	SLH	6010B
Cadmium	7440-43-9	3.26 U ✓	mg/Kg-dry	3.26	18.7	1	06/25/10 5:20	SLH	6010B
Copper	7440-50-8	438 ✓	mg/Kg-dry	5.26	46.7	1	06/25/10 5:20	SLH	6010B
Potassium	7440-09-7	0.456 I ✓	%-dry	346	935	1	06/25/10 5:20	SLH	6010B
Molybdenum	7439-98-7	13.6 I ✓	mg/Kg-dry	13.0	46.7	1	06/25/10 5:20	SLH	6010B
Nickel	7440-02-0	6.30 I ✓	mg/Kg-dry	5.17	46.7	1	06/25/10 5:20	SLH	6010B
Lead	7439-92-1	33.9 I ✓	mg/Kg-dry	24.3	56.1	1	06/25/10 5:20	SLH	6010B
Selenium	7782-49-2	26.7 U ✓	mg/Kg-dry	26.7	93.5	1	06/25/10 5:20	SLH	6010B
Zinc	7440-66-6	1,240 ✓	mg/Kg-dry	15.4	93.5	1	06/25/10 5:20	SLH	6010B

Mercury

Prep Method	7471A	Prep Batch	29960	Date/Time	Prepped	06/23/10 9:07	Analytical Batch	45237	
		Final Volume	20 mL						
Compound	CAS	Result	Units	MDL	PQL	DF	Date/Time Analyzed	By	Analytical Method
Mercury	7439-97-6	0.576 I	mg/Kg-dry	0.336	1.87	1	06/23/10 13:56	TJ	7471A

Analyses performed by ETC, Inc. FDOH ID E87943

- | | |
|---|---|
| * Surrogate Recovery outside accepted limits | I Estimated Value. Presence was confirmed but < PQL |
| L Concentration exceeds the est. method calibration range | MDL. Method Detection Limit (factored). |
| PQL Practical Quantitation Limit (factored). | Q. Sample analyzed beyond recommended holding time |
| U Analyzed for but not detected. | V Analyte detected in the associated Method Blank |

06/25/10 225 POLK_ENV_FAI

Florida Analytical, Inc.

4320 Old Hwy. 37 Lakeland, FL 33813 (863) 646-8526 Fax: (863) 646-1042

"A Laboratory Management Partner"

2010
N/A

Environmental
Marcia Rose
Box 604
Lake Wales, FL 33859

Project Brooker Septic.
Information :

Report Date : 6/29/2010

Report Number : 10-167-0223

REPORT OF ANALYSIS

Received : 6/16/2010

Lab No : 53651

Matrix: Solids

Sample ID : Sludge 503 6/8/10-6/16/10

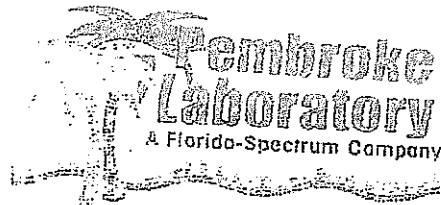
Sampled: 6/16/2010 7:30

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Phosphorus as P	1.15 ✓	%-dry	0.0778	0.0042	1	06/17/10 07:50	SVS	EPA-1688-P
pH	10.32 Q ✓	s.u.	0.01	0.01	1	06/18/10 12:00	SVS	SM-4500H+B
Total Solids	1.18 ✓	%	0.01	0.01	1	06/22/10 13:59	CVS	SM-2540G
Total Kjeldahl Nitrogen	4.34	%-dry	0.0374	0.0042	1	06/17/10 07:50	SVS	EPA-1688
Nitrate + Nitrite as N	0.0514 I	%-dry	0.00983	0.983	1	06/18/10 08:15	SVS	EPA-1685
Total Nitrogen	4.39 ✓	%-dry		0.000	1	06/17/10 07:50		CALCULATION

Qualifiers/
Definitions

MDL

Method Detection Limit



528 Geach Road
Fort Meade, Florida 33841
Ph# 863-285-8145
Fax# 863-285-7030

NELAC certified FDGH E86006

Used for
2009
Annual
3 samples
12-14-10
Des
Am
only

CERTIFICATE OF ANALYSIS

Report to: Parakeet Park
2400 Parakeet Park Blvd.
Lake Wales, Florida 33859-5436

Collected: 12/14-16/2009
Reported: 12/18/2009
Received: 12/10/2009 @ 10:00
Collected by: Barbara J. Henry.

Project: WWTP
Site Location: Lake Wales
Matrix: Sludge

Parameter	LAB #	Result	QC	Units	MDL	PQL	Method	Date EXT.	Date Analy.	Time Analy.	Analyst
pH	87147-U SAMPLE ID: Sludge	6.33 (1.51)	Q	%	0.01 0.1	0.03 0.3	EPA 9045C SM 2540 G	12/18/2009 12/21/2009	12/18/2009 12/22/2009	17:30 9:42	E86006 E86006
Perecent Solids											

Parameter	LAB #	Result	QC	Units	MDL	PQL	Method	Date EXT.	Date Analy.	Time Analy.	Analyst
Total Nitrogen in Solids By % Dry Weight	87147-S SAMPLE ID: Sludge	4.4		% dry wt	0.01	0.03	JCC-351 CALC	12/28/2009	12/28/2009	16:58	E86006
Total Phosphorus by % Dry Weight		1.80		%	0.01	0.03	EPA 355	12/28/2009	12/28/2009	15:05	E86006

Parameter	LAB #	Result	QC	Units	MDL	PQL	Method	Date EXT.	Date Analy.	Time Analy.	Analyst
Arsenic (Dry Weight)	87147-F SAMPLE ID: Sludge	1.72	I	mg/Kg	0.60	1.80	3050/6010B	12/21/2009	12/21/2009	13:39	E86006
Cadmium (Dry Weight)		1.32	I	mg/Kg	0.50	1.50	3050/6010B	12/21/2009	12/21/2009	13:39	E86006
Chromium (Dry Weight)		11.3		mg/Kg	0.50	1.50	3050/6010B	12/21/2009	12/21/2009	13:39	E86006
Copper (Dry Weight)		206		mg/Kg	0.30	0.90	3050/6010B	12/21/2009	12/21/2009	13:39	E86006
Lead (Dry Weight)		19.2		mg/Kg	0.80	2.40	3050/6010B	12/21/2009	12/21/2009	13:39	E86006
Molybdenum (Dry Weight)		9.27		mg/Kg	0.04	0.12	3050/6010B	12/21/2009	12/21/2009	13:39	E86006
Nickel (Dry Weight)		11.9		mg/Kg	0.20	0.60	3050/6010B	12/21/2009	12/21/2009	13:39	E86006
Potassium (Dry Weight)		0.65		% dry wt	0.01	0.03	3050/6010B	12/21/2009	12/21/2009	13:39	E86006
Selenium (Dry Weight)		7.28		mg/Kg	0.60	1.80	3050/6010B	12/21/2009	12/21/2009	13:39	E86006
Zinc (Dry Weight)		881		mg/Kg	0.60	1.80	3050/6010B	12/21/2009	12/21/2009	13:39	E86006
Mercury (dry weight) Cold Vapor AA		U	U	mg/Kg	0.04	0.12	7471A	12/22/2009	12/22/2009	16:10	E86006

Defined Qualifier Codes included in report if needed.
Work performed by subcontract labs denote by Cert.ID in Analyst Field.
Results relate only to the samples.

Kenya Johnson
Kenya Johnson, Laboratory Manager
(863) 285-8145

00225

Polk Environmental

Ms. Marcia Rose

PO Box 604

Lake Wales, FL 33859

Project Carefree
Information :

Report Date : 1/8/2010

Report Number : 09-363-0225

REPORT OF ANALYSIS

Received : 12/29/2009

Lab No : 91429

Matrix: Solids

Sample ID : Carefree Sludge

Sampled: 12/29/2009 8:30

Test	Results	Units	MDL	DF	Date / Time Analyzed	By	Analytical Method
Total Phosphorus as P	1.71 ✓	%-dry	0.101	1	12/31/09 09:00	SS	EPA-1688-P
pH	6.87 Q ✓	s.u.	0.01	1	12/30/09 13:30	CVS	SM-4500H+B
Total Solids	0.91 ✓	%	0.01	1	12/31/09 16:30	CVS	SM-2540G
Total Kjeldahl Nitrogen	5.97	%-dry	0.0485	1	12/31/09 09:00	SS	EPA-1688
Nitrate + Nitrite as N	0.0127 U	%-dry	0.0127	1	01/05/10 10:30	SS	EPA-1685
Total Nitrogen	5.97 ✓	%-dry	0.012	1	01/07/10 12:29		CALCULATION

Qualifiers/
Definitions

MDL

Method Detection Limit

"A Laboratory Management Partner"

Polk Environmental
P. O. Box 604Project Carefree
Description

Lake Wales, FL 33859

Lab Order Number 09-363-0225
Lab ID 0912502-001A
Field ID Carefree Sludge
Sample Number 91429Received 12/30/09
Matrix Sludge
Sampled 12/29/09
Report of Analysis

ICP Metals

Prep Method	3050B	Prep Batch	27721	Date/Time Prepped	01/04/10 7:18	Analytical Batch	42776	
		Final Volume	50 mL					
Compound	CAS	Result	Units	MDL	DF	Date/Time Analyzed	By	Analytical Method
Arsenic	7440-38-2	36.5 U	mg/Kg-dry	36.5	1	01/05/10 2:25	NFP	6010B
Cadmium	7440-43-9	3.36 U	mg/Kg-dry	3.36	1	01/05/10 2:25	NFP	6010B
Copper	7440-50-8	789	mg/Kg-dry	5.41	1	01/05/10 2:25	NFP	6010B
Potassium	7440-09-7	0.557	%-dry	0.0356	1	01/05/10 2:25	NFP	6010B
Molybdenum	7439-98-7	0.748	mg/Kg-dry	0.139	1	01/05/10 14:20	NFP	6010B
Nickel	7440-02-0	21.3 I	mg/Kg-dry	5.32	1	01/05/10 2:25	NFP	6010B
Lead	7439-92-1	25.0 U	mg/Kg-dry	25.0	1	01/05/10 2:25	NFP	6010B
Selenium	7782-49-2	27.5 U	mg/Kg-dry	27.5	1	01/05/10 2:25	NFP	6010B
Zinc	7440-66-6	1,020	mg/Kg-dry	15.9	1	01/05/10 2:25	NFP	6010B

Mercury

Prep Method	7471A	Prep Batch	27732	Date/Time Prepped	01/04/10 12:52	Analytical Batch	42778	
		Final Volume	20 mL					
Compound	CAS	Result	Units	MDL	DF	Date/Time Analyzed	By	Analytical Method
Mercury	7439-97-6	0.346 U	mg/Kg-dry	0.346	1	01/04/10 17:03	TJ	7471A

Analyses performed by ETC, Inc. FDOH ID E87943

- * Surrogate Recovery outside accepted limits
- L Concentration exceeds the est. method calibration range
- PQL Practical Quantitation Limit (factored).
- U Analyzed for but not detected.

- I Estimated Value. Presence was confirmed but < PQL
- MDL Method Detection Limit (factored).
- Q Sample analyzed beyond recommended holding time
- V Analyte detected in the associated Method Blank

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"A Laboratory Management Partner"

Polk Environmental
P. O. Box 604

Project **Carefree**
Description

Lake Wales, FL 33859

Lab Order Number **09-363-0225**
Lab ID **0912502-001**
Field ID **Carefree Sludge**
Sample Number **91429**

Received **12/30/09**
Matrix **Sludge**
Sampled **12/29/09**

Report of Analysis

Inorganics					Date/Time		Analytical		Batch
Compound	CAS	Result	Units	MDL	DF	Analyzed	By	Method	ID
Percent Moisture	MOIST	99.0	wt%	1.0	1	01/05/10 0:00	LD1	2540B	42794

Analyses performed by ETC, Inc. FDOH ID E87943

- * Surrogate Recovery outside accepted limits
- L Concentration exceeds the est. method calibration range
- PQL Practical Quantitation Limit (factored).
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- I Estimated Value. Presence was confirmed but < PQL
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01/07/10