

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Application for increase in water and wastewater rates in Alachua, Brevard, DeSoto, Highlands, Lake, Lee, Marion, Orange, Palm Beach, Pasco, Polk, Putnam, Seminole, Sumter, Volusia, and Washington Counties by Aqua Utilities Florida, Inc.

DOCKET NO. 080121-WS
FILED: JANUARY 27, 2009

RECEIVED-FPSC
09 JAN 27 PM 2:01
COMMISSION
CLERK

CERTIFICATE OF SERVICE


I HEREBY CERTIFY that a true and correct copy of the Supplemental Late-Filed Exhibit 205, consisting of the Laboratory Report on the Full Particle Identification of the residue on the Q-Tip from the master bedroom sink drain of Ms. Cindy Russell, on behalf of the Florida Public Service Commission, has been furnished by U.S. Mail, on this 27th day of January, 2009, to the following.

Aqua Utilities Florida, Inc.
Ms. Kimberly A. Joyce
762 West Lancaster Avenue
Bryn Mawr, PA 19010-3402

Holland & Knight Law Firm
Bruce May/Gigi Rollini
P.O. Drawer 810
Tallahassee, FL 32302-0810

Office of Public Counsel
J.R. Kelly/Charlie Beck/S. C. Reilly
c/o The Florida Legislature
111 W. Madison Street, Room 812
Tallahassee, FL 32399-1400

Office of the Attorney General
Bill McCollum/Cecilia Bradley
The Capitol - PL01
Tallahassee, FL 32399-1050



RALPH R. JAEGER, SENIOR ATTORNEY
FLORIDA PUBLIC SERVICE COMMISSION
Gerald L. Gunter Building
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850
Telephone: (850) 413-6234

DOCUMENT NUMBER-DATE
00651 JAN 27 09
COMMISSION CLERK

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Application for increase in water and wastewater rates in Alachua, Brevard, DeSoto, Highlands, Lake, Lee, Marion, Orange, Palm Beach, Pasco, Polk, Putnam, Seminole, Sumter, Volusia, and Washington Counties by Aqua Utilities Florida, Inc.

**SUPPLEMENTAL LATE-FILED EXHIBIT 205
(LABORATORY REPORT ON Q-TIP FROM CINDY
RUSSELL)
RESPONSE TO COMMISSIONER QUESTIONS**

DOCUMENT NUMBER-DATE

00651 JAN 27 8

FPSC-COMMISSION CLERK



EMSL Analytical, Inc.

107 Haddon Avenue, Westmont, NJ 08108
Phone: (856) 858-4800

Materials Science Division

Attn.: *Ralph Jaeger*
Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, FL 32399

Phone: 850-413-6234 Fax: 850-413-6235

EMSL Case No.: 360900047
Sample(s) Received: 1/12/2009
Date of Analysis: 1/26/2009
Date Printed: 1/26/2009
Reported By: Matthew Maki

- Laboratory Report -

Full Particle Identification™

Analyzed by:

Matthew Maki

Matthew Maki
Materials Scientist

1-26-2009

Date

QA/QC:

Dana D'Ulisse

Dana D'Ulisse
Materials Scientist

1-26-2009

Date



EMSL Analytical, Inc.

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Conclusions:

- The sample is composed primarily of mold.

Procurement of Samples and Analytical Overview:

The sample for analysis (one wipe) arrived at EMSL Analytical's corporate laboratory in Westmont, NJ on January 12, 2009. The package arrived in satisfactory condition with no evidence of damage to the contents. The sample was submitted for the purpose of determining the identification of the individual components. The sample reported herein has been analyzed using the following equipment and methodologies.

Methods & Equipment: Stereomicroscopy
 Polarized Light Microscopy (PLM)
 Scanning Electron Microscopy (SEM)
 Energy-dispersive X-Ray Spectrometry (EDX)



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Results and Discussion:

Sample #:	1	Description:	Swab From Sink Drain
Nuisance Particulate:	(%)	Biological Particulate:	(%)
Asbestos: (Total)	ND	Mold: (Total)	88
MMVF's: Fibrous Glass	ND	Pollen: (Total)	ND
Mineral Wool	ND	Diatoms: (Total)	ND
Ceramic Fibers	ND	Insect Fragments: (Total)	ND
Glass: Fragments	ND		

Common Particulate:	(%)		(%)
Cellulosic: Processed	ND	Rust (Iron Oxides)	ND
Natural	ND	Aluminum Oxide	ND
Wood	ND	Zinc Oxide	ND
Paper Pulp	ND	Dust	ND
Starch	ND	Quartz	10
		Calcite/ Dolomite	ND
Synthetic: Total	ND	Gypsum/ Anhydrite	ND
		Clay	ND
Human Hair	ND	Plaster	ND
Animal Hair	ND	Cement	ND
Skin Fragments	ND		
Unidentified: Inert Organics	1	Unidentified: Inorganics	1

Additional Particulate:	None
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LOD~1%



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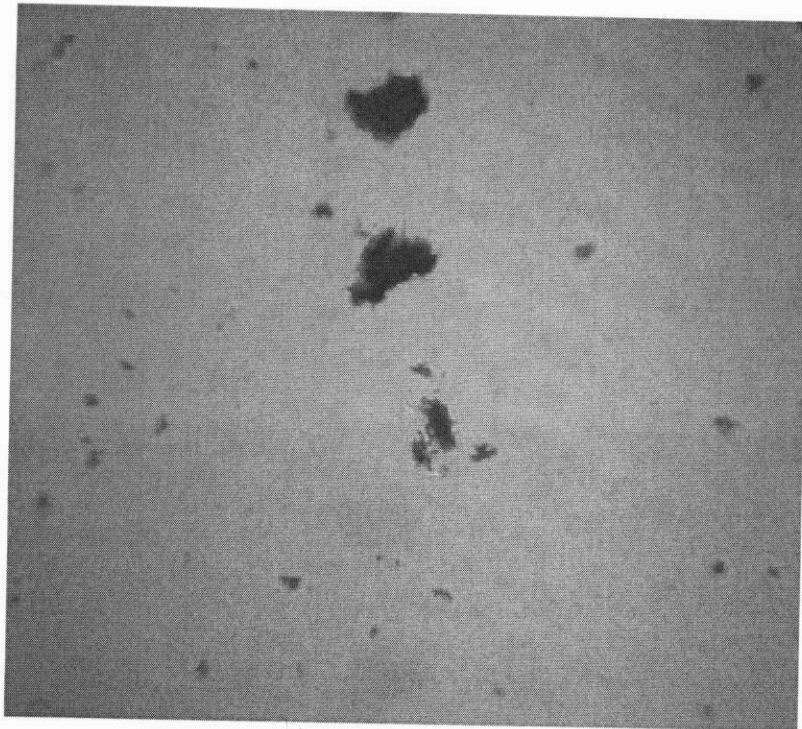


Figure one: PLM image of Mold in sample "1"



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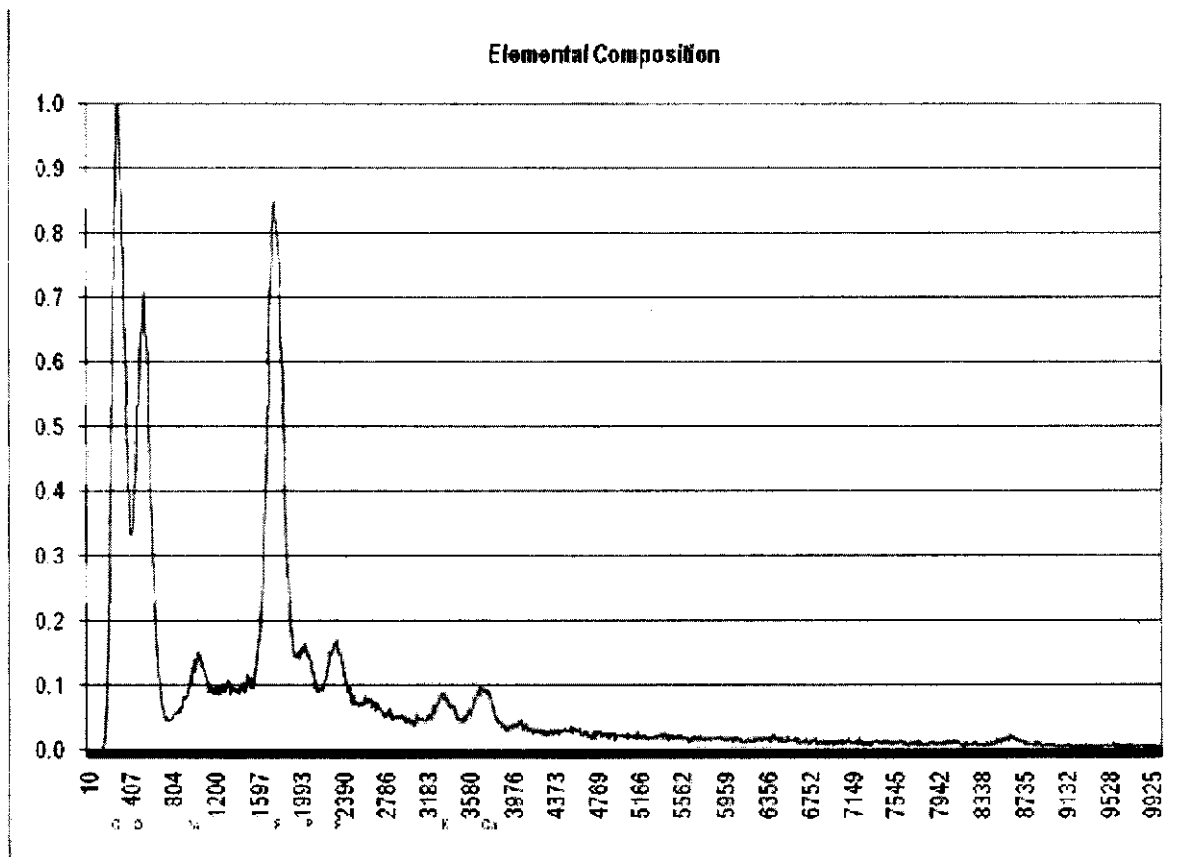


Figure two: SEM/EDX spectra of sample "1" indicating the presence of the mold (carbon based material) and quartz (SiO₂)



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Descriptions & Definitions:

Cellulose is a complex carbohydrate found in nature that is composed of glucose units; it forms the main constituent of the cell wall in most plants. Wood, paper, and cotton all contain cellulose fibers. The cellulose fibers used in clothing items undergo chemical processing that changes the character of the fibers in order to modify water and/or dyes retention.

None Detected (ND) denotes the absence of an analyte in the subsample analyzed. Trace levels of the analyte may be present in the sample below the limit of detection (LOD).

Limit of Detection (LOD): The minimum concentration that can be theoretically achieved for a given analytical procedure in the absence of matrix or sample processing effects. Particle analysis is limited to a single occurrence of an analyte particle in the sub-sample analyzed.

Concentrations for bulk samples are derived from Visual Area Estimation (VAE) unless otherwise noted. Air sample concentrations are calculated to particles per unit volume.

VAE technique estimates the relative projected area of a certain type of particulate from a mixture of particulate by comparison to data derived from analysis of calibration materials having similar texture and particulate content. Due to bi-dimensional nature of the measurements, in some cases the particle thickness could affect the results.

The particles included in the Unidentified Inorganics category consist of particles that do not have carbon as main component and are crystalline.

The particles included in the Unidentified Inert Organics category consist of particles with carbon-based composition. They are inert (they do not react with the surrounding media) and they cannot not be isolated for individual identification. A more descriptive term might be "Organic Dust", which may include degraded skin fragments, carbon black particles, cellulosic or polymeric remnants, etc.

The results are obtained using the methods and sampling procedures as described in the report or as stated in the published standard methods, and are only guaranteed to the accuracy and precision consistent with the used methods and sampling procedures. Any change in methods and sampling procedure may generate substantially different results. EMSL Analytical, Inc. assumes no responsibility or liability for the manner in which the results are used or interpreted.