BULLE ROCK REPORT



Tim Whittie <timw@havredegracemd.com>

Re: Scanned image from MX-3570V

Chris Carski -MDE- <chris.carski@maryland.gov> To: Tim Whittie <timw@havredegracemd.com>

Tue, Sep 15, 2020 at 7:30 AM

Tim, I agree, the lab report confirms the City water supply is not causing the black substance, now identified as mold/fungi, found on plumbing fixtures in the Bulle Rock area.

Chris Carski Regulatory and Compliance Engineer Senior - MDE 410.537.3743

On Thu, Sep 10, 2020 at 4:13 PM Tim Whittie <timw@havredegracemd.com> wrote:

Chris;

The City believes that the attached laboratory report conclusively proves that the City water supply is not responsible for the mold/fungi in the fixtures in homes in the Bulle Rock Subdivision.

Thanks, Tim Whittie

----- Forwarded message -----

From: system_notification@havredegracemd.com <system_notification@havredegracemd.com>

Date: Thu, Sep 10, 2020 at 10:40 AM Subject: Scanned image from MX-3570V To: <timw@havredegracemd.com>

Reply to: Tim Whittie <timw@havredegracemd.com>

Device Name: Not Set Device Model: MX-3570V

Location: Not Set

File Format: PDF MMR(G4) Resolution: 200dpi x 200dpi

Attached file is scanned image in PDF format.

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EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077 Phone/Fax: (800) 220-3675 / (856) 786-0262

http://www.EMSL.com

cinnmicrolab@emsl.com

EMSL Order:

372011817

CustomerID:

CHDG42

CustomerPO: ProjectID:

Ken Montgomery City of Havre De Grace

711 Pennington Ave Havre De Grace, MD 21078 Phone:

(410) 939-1220

Fax:

Received:

07/30/20 12:05 PM

Analysis Date:

8/11/2020

Collected:

7/14/2020

Project: Peace Chance (362001629)

Test Report: Identification and Enumeration of Culturable Fungi by Bulk (Including Speciation of Penicillium, Aspergillus, Cladosporium, and Stachybotrys (EMSL Method MICRO-SOP-202))

Sample Description	Sample Location	Temp (C)	Sample Measure (Bulk)	Analytical Sensitivity (CFU/Bulk)	Dilution	Fungal Identification	Colony Count	CFUs (CFU/Bulk)	Percent of Total
1	Faucet	25	1	10,000	10000	Cladosporium sphaerospermum	3	30,000	5.1
372011817-0001	Media: MEA,CELL,CYA			1	1	Fusarium sp.	1	1	<1
				10,000	10000	Phoma sp.	56	560,000	94.9
••••						Total	60	590,000	

No discernable blank was submitted with this group of samples

Analyst(s)

Zeljko Jurjevic (1)

Vincent luzzolino, M.S., Laboratory Director or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

The detection limit is equal to 1 colony forming unit (CFU) per agar plate.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--EMLAP Accredited #100194

Initial report from 08/13/2020 15:32:35

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200 Route 130 North, Cinnaminson, NJ 08077 (800) 220-3675 / (856) 786-0262 Phone/Fax:

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372011817

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Project: Peace Chance (362001629)

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Initial report from 08/13/2020 15:32:35

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Report To (Name):		Tim Whittie		elephone #: 4		
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Project Name/Numb	er: Monarchos	(3620016	30) PI	ease Provide		V
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. M049 BioSIS	M003 Burkard M174 MoldSnap	• M043		• M002 Cyl	clex-d	
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• -M009 Gram Stain C	Culturable Bacteria		Membrane Filtr ecal Streptoco		 M120 Histo M033-39 A 	oplasma capsulatum Detection
Prominent		(Membrane Filtr	ation)	 M044 Grou 	
M011 Bacterial Col Prominent		 M026 F 	Recreational Wa	ater Screen		e Analytical Price Guide
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EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077 Phone/Fax: (800) 220-3675 / (856) 786-0262

http://www.EMSL.com cinnmicrolab@emsl.com EMSL Order: CustomerID:

372011818 CHDG42

CustomerPO:

ProjectID:

Ken Montgomery City of Havre De Grace 711 Pennington Ave Havre De Grace, MD 21078 Phone:

(410) 939-1220

Fax:

Received:

07/30/20 12:05 PM

Analysis Date:

8/7/2020

Collected:

Project: Monarchos (362001630)

Test Report: Identification and Enumeration of Culturable Fungi by Bulk (Including Speciation of Penicillium, Aspergillus, Cladosporium, and Stachybotrys (EMSL Method MICRO-SOP-202))

Sample Description	Sample Location	Temp (C)	Sample Measure (Bulk)	Analytical Sensitivity (CFU/Bulk)	Dilution Fungal Identification	Colony Count	CFUs (CFU/Bulk)	Percent of Total
1	Faucet	25	1	1000	1000 Fusarium sp.	1	1000	4.3
372011818-0001	Media: MEA,CELL,CYA			1000	1000 Yeast	22	22,000	95.7
					Total	23	23,000	

No discernable blank was submitted with this group of samples

Analyst(s)

Zeljko Jurjevic (1)

Vincent luzzolino, M.S., Laboratory Director or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

The detection limit is equal to 1 colony forming unit (CFU) per agar plate.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AlHA-LAP, LLC--EMLAP Accredited #100194

Initial report from 08/11/2020 12:36:52



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077 Phone/Fax: (800) 220-3675 / (856) 786-0262

http://www.EMSL.com

cinnmicrolab@emsl.com

EMSL Order:

372011818

CustomerID:

CHDG42

CustomerPO:

ProjectID:

Ken Montgomery City of Havre De Grace 711 Pennington Ave Havre De Grace, MD 21078

Phone:

(410) 939-1220

Fax:

Received:

07/30/20 12:05 PM

Analysis Date:

8/7/2020

Collected:

Project: Monarchos (362001630)

Test Report: Identification and Enumeration of Culturable Fungi by Bulk (Including Speciation of Penicillium, Aspergillus, Cladosporium, and Stachybotrys (EMSL Method MICRO-SOP-202))

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372011818-0001	Media: MEA,CELL,CYA			1000	1000 Yeast	22	22,000	95.7
					Total	23	23,000	

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AlHA-LAP, LLC--EMLAP Accredited #100194

Initial report from 08/11/2020 12:36:52



Controlled Document - Material Science COC - R3 - 9/22/2011

Materials Science Chain of Custody RECEIVED 200 ROUTE 130 NORTH

EMSL Order Number (Lab Use Only):

EMSL CINNAMINSON, NJ 08077

CINHAMINSON, PHONE: (800) 220-3675 FAX: (856) 858-1580

20 JUL 15 AMII: 36 EMSL-Bill to: Same Different Company: If Bill to is Different note Instructions in Comments** Third Party Billing requires written authorization from third party Street: +11 State/Province: MD Zip/Postal Code: 21078 Country: , 3 Tim Whithe Ken Montgomery Fax #: Report To (Name): Telephone #: 410 939 410 939 1800 Ken Ma Email Address: Project Name/Number: Monarchos Purchase Order: Please Provide Results: Fax U.S. State Samples Taken In: **Email** Turnaround Time (TAT) Options - Please Check 2 Week Expedited (Please call for information) TAT: Test Type Physical Testing (Tensile, MMVF's (fibrous glass, mineral Common Particle ID (large particles) Compression, etc.) wool, RCF's) Particle Size (Sieve, Microscopy, Full Particle ID (environmental dust) FTIR/NIR (Polymers, Lubricants) or Laser-select one) X-Ray Fluorescence (elemental Combustible Dust (Core Module, Basic Material ID (solids) MIE, MEC, Kst, etc.) analysis) Advanced Material ID (liquids and Petrographic Examination of X-Ray Diffraction (Crystalline solids, industrial residues) Particles) Concrete, Soil, Stone Combustion-by-products (soot, char, ash, carbon black) Level 1 Level 2 Level 3 Generic Other (Please Explain): If found to be Mold/Bacteria All orders for clients who do not have established accounts with EMSL Analytical must be accompanied by payment in form of a check or credit card. After your first order, EMSL reserves the right to establish an account and assign credit terms of Net 30 or COD based on credit evaluation and or frequency of sample submittal. To establish a permanent account, you must be able to submit samples on a regular basis at a minimum of five times per year. EMSL reserves the right to make adjustments or changes to this policy as deemed necessary by business requirements. Samplers Name: Len Samplers Signature: Date/Time Sample # Sample Description Sampled Client Sample # (s): Total # of Samples: 1140AM Date: 7 Relinquished (Client): Time: 7-15.2 Received (Lab): Date: Time: Comments:

Beatty, Brittany

#362001630

From:

Ken Montgomery <kenm@havredegracemd.com>

Sent:

Wednesday, July 15, 2020 1:20 PM

To:

Beatty, Brittany

Subject:

Re: Peacechance Project

[EXTERNAL E-MAIL]

2 weeks is sufficient please. Regards

Ken Montgomery

On Wed, Jul 15, 2020 at 1:17 PM Beatty, Brittany

beatty@emsl.com> wrote:

Good Afternoon,

Please provide a turnaround time for the samples received today.

Thank you,



Brittany Beatty | Log In

EMSL Analytical, Inc. | 200 Route 130 North | Cinnaminson, NJ 08077

Phone: 856-858-4800 | Fax: 856-786-5974 | Toll Free: 800-220-3675

COVID-19 Update: EMSL Analytical, Inc. remains open as an essential business. To view real-time status updates for each of our 45 laboratories in the US and Canada, download EMSL's free smart device application via the <u>iTunes</u>
<u>App Store - Apple</u> or <u>Google Play</u>. APP updates are posted under Support / Lab Hours.



Ken Montgomery City of Havre de Grace 711Pennington Ave

Havre de Grace, MD 21078 Phone: 410-939-1800

Email: kenm@havredegrace.com

Date of quote:

June 10, 2020

Client ID:

+36HAVD13

Prepared By:

J. Passero

Quote ID:

J.061020.0549

Materials Science Division Quotation for Analytical Services

<u>Purpose of Analysis:</u> Identification of black substance from water distribution system.

Sample Type: Black substance (provided by the client).

Analytical Proposal: Perform testing on provided material by appropriate analytical techniques (see below).

Quoted services:

Analysis	Turnaround Time	Price Per Sample
Material Identification	10 business days	\$663.00
i I	5 business days	\$995.00
	4 business days	\$1,193.00
	3 business days	\$1,459.00
Landana	2 business days	\$1,823.00

If this quote for analytical services is acceptable please sign the supplied space below and submit this page with the samples at EMSL- -200 Route 130 North, Cinnaminson, NJ 08077. Unless specified in writing, quoted pricing expires if work is not submitted within 60 days.

Thank you for your interest in EMSL Analytical, Inc.	
Quote Approved by: Client Signature	0.44
Chent Sianature	Date

Clients who do not have established accounts with EMSL Analytical must submit with the samples payment in form of a check or credit card. EMSL reserves the right to establish an account and assign credit terms of Net 30 or COD based on credit evaluation and or frequency of sample submittal. To establish a permanent account, you must be able to submit samples on a regular basis at a minimum of five times per year. EMSL reserves the right to make adjustments or changes to this policy as deemed necessary by business requirements.

EMSL's Terms and Conditions for Purchase of Laboratory Services apply.



200North, Route 130, Cinnaminson, NJ. 08077

Phone: (800) 220-3675

EMSL Order No.: 362001630

City of Havre de Grace 711 Pennington Avenue

Ken Montgomery/Tim Whittie

Havre de Grace, MD. 21078

kenm@havredegracemd.com Phone: 410-939-1220

Attn.:

Sample(s) Received: 7/15/2020

Date Reported: 7/29/2020 Date Printed: 7/29/2020

Reported By: J.Newton

- Laboratory Report -

Materials Identification

Project: Monarchos

Conclusions:

The data obtained during analysis indicates the following.

Sample 1 was found to be composed of mold and bacteria growth.

Procurement of Samples and Analytical Overview:

The sample submitted for analysis arrived at EMSL Analytical (Cinnaminson, NJ) on 7/15/2020. The package arrived in satisfactory condition with no evidence of damage to the contents. The data reported herein has been obtained using the following equipment and methodologies.

Methods & Equipment: Polarized Light Microscopy (PLM) - Zeiss, Universal Petrographic Microscope

> Reflected Light Microscopy (RLM) - Nikon, DF Microscope Phase Contract Microscopy (PCM) - Zeiss, Axioplan 2

Analyzed by:

John Newton Senior Materials Scientist 28 July 2020

Date

Reviewed/Approved by:

29 July 2020

Eugenia Mirica, Ph.D. Laboratory Manager

Date

City of Havre de Grace

711 Pennington Avenue

200North, Route 130, Cinnaminson, NJ. 08077 Phone: (800) 220-3675

EMSL Order No.: 362001630

Sample(s) Received: 7/15/2020

Date Reported: 7/29/2020

Date Printed: 7/29/2020

Reported By: J.Newton

kenm@havredegracemd.com

Attn.:

Phone: 410-939-1220

Havre de Grace, MD. 21078

Ken Montgomery/Tim Whittie

Background:

A sample was submitted for analysis. The purpose of the analysis was to identify the material present.

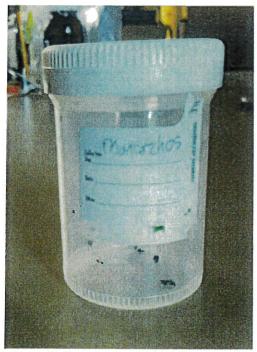


Figure 1: Samples as received for analysis.

Sample ID Description

Faucet Collection

Date/Time Sampled 7/14/2020 11:00

Sample Preparation:

The sample was analyzed in its as-received condition.



200North, Route 130, Cinnaminson, NJ. 08077 Phone: (800) 220-3675

EMSL Order No.: 362001630

Sample(s) Received: 7/15/2020

Date Reported: 7/29/2020

Date Printed: 7/29/2020

Reported By: J.Newton

City of Havre de Grace 711 Pennington Avenue Havre de Grace, MD. 21078 kenm@havredegracemd.com

Ken Montgomery/ Tim Whittie

Phone: 410-939-1220

Results and Discussion:

Attn.:

EMSL ID:	362001630-0001		
Sample ID:	1		
Description:	Faucet Collection		
Grouping	Analyte	Relevance/ Contribution	Comments
Solid Materials:	None Detected	ND	А
Biological Organisms:	Fungal Growth Bacteria	95 – 99% 1 – 5%	В
Liquids and Residues:	Water	Not Determined	С

Comments:

- Α No non-biological solids were observed in the sample.
- The material present is predominantly composed of fungal growth with sporulation. Bacterial В formations are also present.
- The sample was found to contain water which was expected and not included in quantitation. C

200North, Route 130, Cinnaminson, NJ. 08077 Phone: (800) 220-3675

EMSL Order No.: 362001630

Sample(s) Received: 7/15/2020 Date Reported: 7/29/2020

Havre de Grace, MD. 21078 kenm@havredegracemd.com

Ken Montgomery/ Tim Whittie

Date Printed: 7/29/2020 Reported By: J.Newton

410-939-1220 Phone:

City of Havre de Grace

711 Pennington Avenue

Attn.:

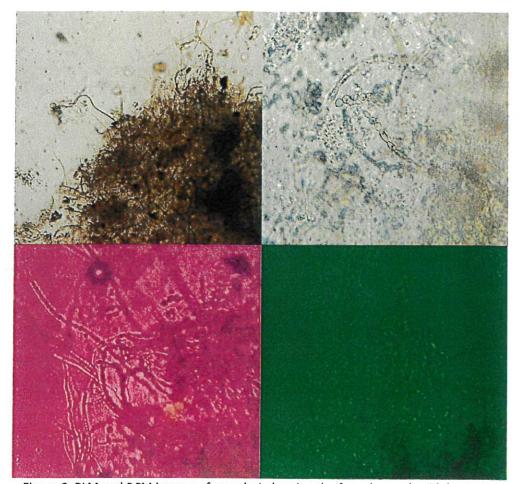


Figure 2: PLM and PCM images of sample 1 showing the fungal growth with bacteria.



City of Havre de Grace

711 Pennington Avenue

Phone: 410-939-1220

Havre de Grace, MD. 21078

kenm@havredegracemd.com

Ken Montgomery/ Tim Whittie

200North, Route 130, Cinnaminson, NJ. 08077 Phone: (800) 220-3675

EMSL Order No.: 362001630

Sample(s) Received: 7/15/2020

Date Reported: 7/29/2020

Date Printed: 7/29/2020

Reported By: J.Newton

Descriptions & Definitions:

Attn.:

None Detected (ND) denotes the absence of 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.

Limit of Quantitation (LOQ): The minimum concentration of an analyte that can be measured within specified limits of precision and accuracy during routine laboratory operating conditions

Trace concentration: Denotes the presence of an analyte above LOD but below LOQ. When results are reported as Trace Concentration, at least one particle was detected in the collection of particles that represents the sample.

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.

Important Terms, Conditions, and Limitations:

Sample Retention: Samples analyzed by EMSL will be retained for 60 days after analysis date. Storage beyond this period is available for a fee with written request prior to the initial 30 day period. Samples containing hazardous/toxic substances which require special handling may be returned to the client immediately. EMSL reserves the right to charge a sample disposal or return shipping fee.

Change Orders and Cancellation: All changes in the scope of work or turnaround time requested by the client after sample acceptance must be made in writing and confirmed in writing by EMSL. If requested changes result in a change in cost the client must accept payment responsibility. In the event work is cancelled by a client, EMSL will complete work in progress and invoice for work completed to the point of cancellation notice. EMSL is not responsible for holding times that are exceeded due to such changes.

Warranty: EMSL warrants to its clients that all services provided hereunder shall be performed in accordance with established and recognized analytical testing procedures, when available. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied. EMSL disclaims any other warranties, express or implied, including a warranty of fitness for particular purpose and warranty of merchantability.

Limits of Liability: In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. EMSL will not be held responsible for the improper selection of sampling devices even if we supply the device to the user. The user of the sampling device has the sole responsibility to select the proper sampler and sampling conditions to insure that a valid sample is taken for analysis. Any resampling performed will be at the sole discretion of EMSL, the cost of which shall be limited to the reasonable value of the original sample delivery group (SDG) samples. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder.

The data and other information contained in this report, as well as any accompanying documents, represent only the samples analyzed. They are reported upon the condition that they are not to be reproduced wholly or in part for advertising or other purposes without the written approval from the laboratory.



Materials Science Chain of Custody

EMSL Order Number (Lab Use Only):

#362001629

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CICINNAMINSON, NJ 08077 PHONE (800) 220-3675 FAX: (856) 858-1580

20 JUL 15 AM 11: 36

Property Comments of Comments		-						711111
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City: Haure of	Garage	State/F	Province: MD	Zip/Postal Code:	210	78	Country:	USA.
Report To (Name):	Tim Whittie	/Kel	Montgomery	Fax #:				
Telephone #: 4/(110 939 1800	Email Address: 14	Lent	M@ Havro	-de G	race MD.con
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Basic Material ID	Basic Material ID (solids) X-Ra analysis)					Combusti MIE, MEC, Ks		Core Module,
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			tion-by-products (seevel 1 Level 2		on blac			
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Comments:								~
								(41)
Certrolled Document - Material Science COC	" - R3 - 9/22/2011		•					

Beatty, Brittany

#362001629

From:

Ken Montgomery <kenm@havredegracemd.com>

Sent:

Wednesday, July 15, 2020 1:20 PM

To: Subject:

Re: Peacechance Project

Beatty, Brittany

[EXTERNAL E-MAIL]

2 weeks is sufficient please. Regards Ken Montgomery

On Wed, Jul 15, 2020 at 1:17 PM Beatty, Brittany < bbeatty@emsl.com > wrote:

Good Afternoon.

Please provide a turnaround time for the samples received today.

Thank you,



Brittany Beatty | Log In

EMSL Analytical, Inc. | 200 Route 130 North | Cinnaminson, NJ 08077

Phone: 856-858-4800 | Fax: 856-786-5974 | Toll Free: 800-220-3675

COVID-19 Update: EMSL Analytical, Inc. remains open as an essential business. To view real-time status updates for each of our 45 laboratories in the US and Canada, download EMSL's free smart device application via the <u>iTunes</u> <u>App Store - Apple</u> or <u>Google Play</u>. APP updates are posted under Support / Lab Hours.

#362001629



Ken Montgomery City of Havre de Grace 711Pennington Ave

Date of quote: Client ID:

June 10, 2020 +36HAVD13

Havre de Grace, MD 21078

Prepared By:

Phone: 410-939-1800

J. Passero

Email: kenm@havredegrace.com

Quote ID:

J.061020.0549

Materials Science Division **Quotation for Analytical Services**

Identification of black substance from water distribution system. Purpose of Analysis:

Sample Type:

Black substance (provided by the client).

Analytical Proposal:

Perform testing on provided material by appropriate analytical techniques (see below).

Quoted services:

Analysis	Turnaround Time	Price Per Sample
Material Identification	10 business days	\$663.00
	5 business days	\$995.00
	4 business days	\$1,193.00
	. 3 business days	\$1,459.00
	2 business days	\$1,823.00

If this quote for analytical services is acceptable please sign the supplied space below and submit this page with the samples at EMSL- -200 Route 130 North, Cinnaminson, NJ 08077. Unless specified in writing, quoted pricing expires if work is not submitted within 60 days.

Quote Approved by:		
-	Client Signature	Date

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EMSL's Terms and Conditions for Purchase of Laboratory Services apply.

Thank you for your interest in EMSL Analytical, Inc.



200North, Route 130, Cinnaminson, NJ, 08077

Phone: (800) 220-3675

EMSL Order No.: 362001629

Sample(s) Received: 7/15/2020 Date Reported: 7/29/2020

Date Printed: 7/29/2020

Reported By: J.Newton

City of Havre de Grace 711 Pennington Avenue Havre de Grace, MD. 21078

Ken Montgomery/ Tim Whittie

kenm@havredegracemd.com

410-939-1220 Phone:

- Laboratory Report -

Materials Identification

Project: Peacechance

Conclusions:

The data obtained during analysis indicates the following.

Sample 1 was found to be composed of mold and bacteria growth.

Procurement of Samples and Analytical Overview:

The sample submitted for analysis arrived at EMSL Analytical (Cinnaminson, NJ) on 7/15/2020. The package arrived in satisfactory condition with no evidence of damage to the contents. The data reported herein has been obtained using the following equipment and methodologies.

Polarized Light Microscopy (PLM) - Zeiss, Universal Petrographic Microscope Methods & Equipment:

> Reflected Light Microscopy (RLM) - Nikon, DF Microscope Phase Contract Microscopy (PCM) - Zeiss, Axioplan 2

Analyzed by:

John Newton Senior Materials Scientist 28 July 2020

Date

Reviewed/Approved by:

29 July 2020

Eugenia Mirica, Ph.D.

Laboratory Manager

Date



City of Havre de Grace

711 Pennington Avenue

Phone: 410-939-1220

Havre de Grace, MD. 21078

kenm@havredegracemd.com

Ken Montgomery/ Tim Whittie

200North, Route 130, Cinnaminson, NJ. 08077 Phone: (800) 220-3675

EMSL Order No.: 362001629

Sample(s) Received: 7/15/2020 Date Reported: 7/29/2020

Date Printed: 7/29/2020

Reported By: J.Newton

Results and Discussion:

EMSL ID:	362001629-0001		
Sample ID:	1		
Description:	Faucet Collection		
Grouping	Analyte	Relevance/ Contribution	Comments
Solid Materials:	None Detected	ND	А
Biological Organisms:	Fungal Growth Bacteria	95 – 99% 1 – 5%	В
Liquids and Residues:	Water	Not Determined	С

Comments:

- No non-biological solids were observed in the sample. A
- В The material present is predominantly composed of fungal growth with sporulation. Bacterial formations are also present.
- The sample was found to contain water which was expected and not included in quantitation. C



200North, Route 130, Cinnaminson, NJ. 08077 Phone: (800) 220-3675

Ken Montgomery/ Tim Whittie Attn.:

City of Havre de Grace 711 Pennington Avenue Havre de Grace, MD. 21078 kenm@havredegracemd.com

Phone: 410-939-1220

EMSL Order No.: 362001629 Sample(s) Received: 7/15/2020 Date Reported: 7/29/2020 Date Printed: 7/29/2020 Reported By: J.Newton

Figure 2: PLM and PCM images of sample 1 showing the fungal growth with bacteria.



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City of Havre de Grace

711 Pennington Avenue

Havre de Grace, MD. 21078

Descriptions & Definitions:

Attn.:

None Detected (ND) denotes the absence of 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.

Limit of Quantitation (LOQ): The minimum concentration of an analyte that can be measured within specified limits of precision and accuracy during routine laboratory operating conditions

Trace concentration: Denotes the presence of an analyte above LOD but below LOQ. When results are reported as Trace Concentration, at least one particle was detected in the collection of particles that represents the sample.

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.

Important Terms, Conditions, and Limitations:

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