

Department of Health and Human Services
 Health and Environmental Testing Laboratory
 121 State Street
 # 12 State House Station
 Augusta Maine 04333-0012
 Tel: 207 287-2727 Fax: 207 287-6352
 TTY: 1-800-608-0215

Paul R. LePage, Governor

Mary C. Mayhew, Commissioner

DOT KELLY
 98 PLEASANT COVE ROAD
 PHIPPSBURG ME 04562 Fax#:

Logged: 3/21/2011 10:17:00AM
Folder/ Invoice # **G010810**

Office Use Only:
 Do Not Bill
 WALK-IN

Project Name: KENNEBEC DREDGE DISPOSAL

No. of Samples in Folder: 1

Released: 5/6/2011
 Case #:

G010810001
G010810002

CERTIFICATION

The HETL hereby certifies that all test results for this report were analyzed by the method listed and meet all NELAC requirements, unless otherwise noted.

Kenneth G. Pote, PhD., Director

Richard French, Quality Assurance Officer

If we can be of further assistance to you, Please Call us at 287-1716

Approved by:

Thomas Crosby

Thomas Crosby
 Inorganics Supervisor/Chemist III

HETL Folder Number: **G010810**

HETL Sample Number: G010810001

Description: MUCK-1 SOLID

Matrix: SOLID

Sample Point:

Sampler: DOROTHY KELLY

Sample Date: 3/17/2011 Time: 15:00:00

Analyte	Result	Units	Qualifier	RL	Method	Analyst	Analysis Datetime
Cadmium	< 3	mg/Kg		3.0	6010B	m_bourdon	3/30/2011
Chromium	36	mg/Kg		3.0	6010B	m_bourdon	3/30/2011
Lead	18	mg/Kg		3.0	6010B	m_bourdon	3/30/2011

Comment : MUCK-1, the per cent of material finer than the 200 screen was 34.1.
Attached By JOHNN **Date** 05/06/2011 **Time** 15:16

Comment : SAND-2, the per cent of material finer than the 200 screen was 35.6 .
Attached By JOHNN **Date** 05/06/2011 **Time** 15:18

Comment : The method for sieve analysis at the HETL has not been accredited.
Attached By JOHNN **Date** 05/06/2011 **Time** 15:20

HETL Folder Number: **G010810**

Units & Measurement

"mg/L" = Milligrams per liter;

"ug/L" = Micrograms per Liter;

"mg/Kg" = Milligrams per Kilogram;

"ug/Kg" = Micrograms per Kilogram;

"PPM" = Parts per Million;

"NTU" = Nephelometric Turbidity Units;

All solid results on a "**Dry Weight**" basis

NC = Not confirmed NQ = Not Quantitated NA = Not Analyzed J = Approximately U = Undetected R = Rejected

RL-Reporting Limit, the lowest concentration which can be reliably reported on a routine basis

"<" = Less than ">" = Greater than

Note: Results below the advisory limit, including < and K are considered satisfactory for that parameter.

Disclaimer

Your report consists of the number of pages listed on the cover page. Any attachments after the last numbered page are for informational purposes only and not part of the formal report.

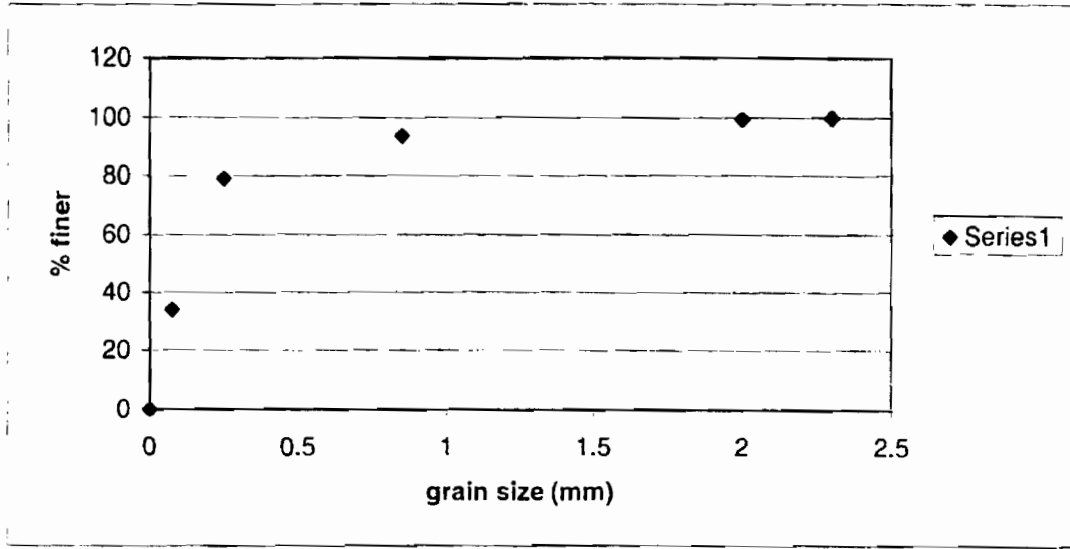
The results in this report are for the submitted sample(s) only.

This report shall not be reproduced, except in full, without written permission from the Maine Health and Environmental Testing Laboratory.

				SIEVE	SIZE	2011	
muck 1							
Sieve name	SIEVE SIZE (MM)	mass sieve	mass sieve + sample	mass retained on sieve	per cent retained on sieve	total wt retained	per cent finer
7	2.3	585.52	585.64	0.12	0.09	0.09	99.90
10	2	467.88	468.46	0.58	0.44	0.53	99.47
20	0.85	431.98	439.82	7.74	5.81	6.34	93.66
60	0.25	393.05	412.47	19.42	14.58	20.92	79.08
200	0.075	501.02	560.95	59.93	45.00	65.92	34.08
PAN		449.74	495.13	45.39	34.08	100.00	0.00
	wt sifted	133.18		133.18			

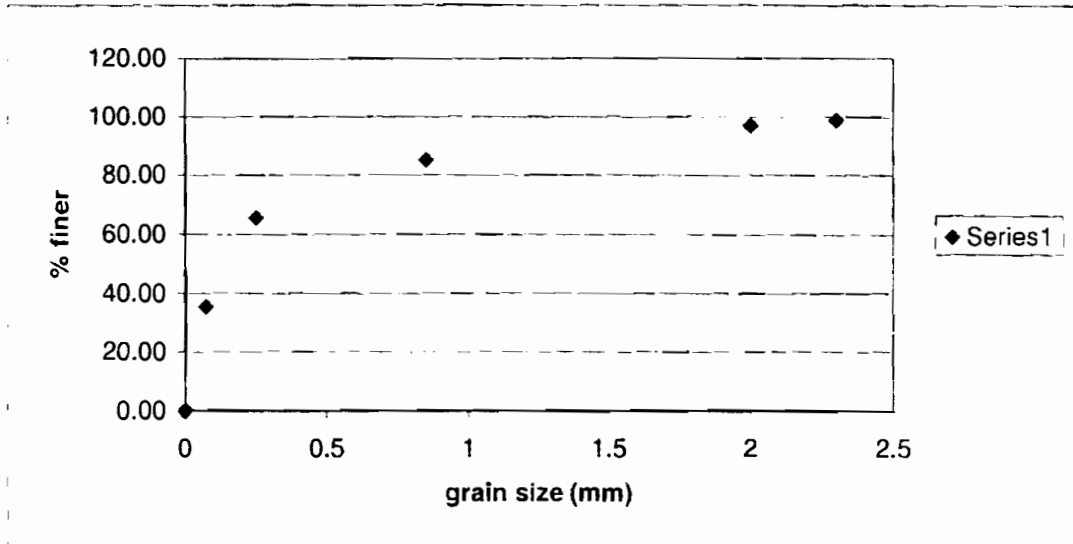
					SIEVE	SIZE	2011
Sand 2							
SIEVE NAME	SIEVE SIZE (MM)	mass sieve	mass sieve + sample	mass retained on sieve	TOTAL MASS RETAINED	per cent retained	per cent finer
7	2.3	585.41	586.7	1.29	1.29	1.13	98.87
10	2	467.73	469.75	2.02	3.31	2.91	97.09
20	0.85	431.75	445.32	13.57	16.88	14.83	85.17
60	0.25	393.93	416.22	22.29	39.17	34.40	65.60
200	0.075	500.79	534.99	34.2	73.37	64.44	35.56
PAN		449.71	490.19	40.48	113.85	100	0
	wt sifted	110.44		113.85		100	

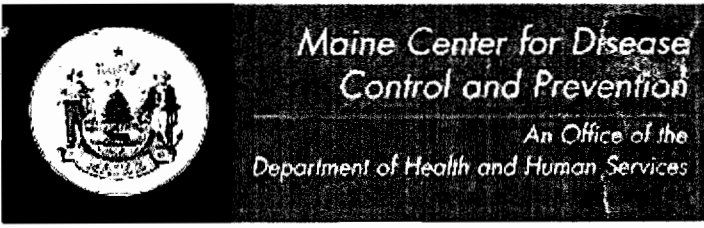
sieve size	MUCK 1	
7	2.3	99.9
10	2	99.47
20	0.85	93.66
60	0.25	79.08
200	0.075	34.08
pan	0	0
	grain size (mm)	% finer



SAND 2

sieve size	grain size (mm)	% finer
7	2.3	98.87
10	2	97.09
20	0.85	85.17
60	0.25	65.60
200	0.075	35.56
pan	0	0





Paul R. LePage, Governor Mary C. Mayhew, Commissioner

Department of Health and Human Services
Health and Environmental Testing Laboratory
221 State Street
12 State House Station
Augusta, Maine 04333-0012
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TTY: 1-800-606-0215

DOT KELLY
98 PLEASANT COVE ROAD
PHIPPSBURG ME 04562

Fax#:

Logged: 3/21/2011 10:17:00AM
Folder/ Invoice # G010810

Office Use Only: Do Not Bill WALK-IN
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Released: 3/31/2011
Case #:

Project Name: KENNEBEC DREDGE DISPOSAL
No. of Samples in Folder 2
G010810001, G010810002

CERTIFICATION

The HETL hereby certifies that all test results for this sample were analyzed by the method listed, including preservation, preparation, and holding times, unless otherwise indicated.

Kenneth G. Pote, PhD., Director

Richard French, Quality Assurance Officer

If we can be of further assistance to you, Please Call us at 287-1716

Approved by:

James E. Curlett
Organics Supervisor/Chemist III

Continued from Previous Page

HETL Sample Number: **G010810002**

HETL Sample Number: G010810002

Description: **MUCK-1 (TOC)**

Matrix: **SOLID**

Sample Point:

Sampler: DOROTHY KELLY

Sample Date: **3/17/2011**

Time: **15:00:00**

Method:

Analyst **Katahdin Lab**

Analysis Datetime: 03/23/2011

Analyte	Result	Units	Qualifiers
Research	See note		

Attached By James Curlett **Date** 3/31/2011 12:00:00AM **Time** 10:31

Comment : TOC analyzed at Katahdin result 51 mg/g dry weight see attached

Continued from Previous Page

HETL Sample Number: **G010810002**

Units & Measurement

"mg/L" = Milligrams per liter;

"ug/L" = Micrograms per Liter;

"mg/Kg" = Milligrams per Kilogram;

"ug/Kg" = Micrograms per Kilogram;

"PPM" = Parts per Million;

"NTU" = Nephelometric Turbidity Units;

The MCL, Maximum Contaminant Level is listed for comparing your results with recommended levels.
In the "Qualifier" column, an "*" is placed to indicate any results that **exceed** this MCL.

If there are no "*" in the "Qualifier" column, your water is considered satisfactory for those tests.

All solid results are reported on a "Dry Weight" basis.

NC = Not confirmed NQ = Not Quantitated NA = Not Analyzed J = Approximately U = Undetected R = Rejected

RL-Reporting Limit is the lowest concentration which can be reliably reported on a routine basis.

"<" = Less than ">" = Greater than

MCL - Maximum Contaminant Level is the highest level allowed by EPA for public water supplies. Also used here as the maximum advisory limit set by the Maine Centers for Disease Control and Prevention.

Note: Results below the advisory limit, including < and J are considered satisfactory for that parameter.

Disclaimer

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The results in this report are for the submitted sample(s) only.

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March 30, 2011

Mr. James Curlett
Health & Environmental Testing Lab
221 State Street, Station 12
Augusta, ME 04333

RE: Katahdin Lab Number: SE1364
Project ID: Muck-1:TOC
Project Manager: Ms. Shelly Brown
Sample Receipt Date(s): March 22, 2011

Dear Mr. Curlett:

Please find enclosed the following information:

- * Report of Analysis (Analytical and/or Field)
- * Quality Control Data Summary
- * Chain of Custody (COC)
- * Login Report

A copy of the Chain of Custody is included in the paginated report. The original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to <http://www.katahdinlab.com/cert.html> for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES



Authorized Signature

03/30/2011

Date

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS
(Refer to BOD Qualifiers Page for BOD footnotes)

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a greater rate for false negatives, i.e. greater than 1%, than those results reported as "U" PQL/LOQ or "U" LOD.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously-called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

I-7 The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 Please refer to cover letter or narrative for further information.

MCL Maximum Contaminant Level

NL No limit

NFL No Free Liquid Present

FLP Free Liquid Present

NOD No Odor Detected

TON Threshold Odor Number

H1 Please note that the regulatory holding time for pH is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. pH for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H2 Please note that the regulatory holding time for DO is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. DO for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H3 Please note that the regulatory holding time for sulfite is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Sulfite for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H4 Please note that the regulatory holding time for residual chlorine is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Residual chlorine for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

DM-003 – Revision 2 – 11/02/2010

Katahdin Analytical Services SE1364 page 000002 of 000009

Report of Analytical Results

Client: James Curlett
Health & Environmental Testing Lab
221 State Street, Station 12
Augusta, ME 04333

Lab Sample ID: SE1364-1
Report Date: 30-MAR-11
Client PO: HETL 032111
Project: Muck-1:TOC
SDG: SE1364

Sample Description

MUCK-1

<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SL	17-MAR-11	22-MAR-11

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
TOC In Sol	51000 ug/gdrywt	910	LLOYDKAHN	WG89439	23-MAR-11 16:26:23	N/A	N/A	BDS	
Total Solids	44. %	1	SM2540G	WG89376	25-MAR-11 10:34:00	ASTM D2216	24-MAR-11	ARE	

Quality Control Report

Blank Sample Summary Report

TOC in Soil

<u>Samp Type</u>	<u>QC Batch</u>	<u>Anal. Method</u>	<u>Anal. Date</u>	<u>Prep. Date</u>	<u>Result</u>	<u>POL</u>
MBLANK	WG89439	Lloyd Kahn	23-MAR-11	N/A	U 300 ug/gdrywt	400 ug/gdrywt

Total Solids

<u>Samp Type</u>	<u>QC Batch</u>	<u>Anal. Method</u>	<u>Anal. Date</u>	<u>Prep. Date</u>	<u>Result</u>	<u>POL</u>
MBLANK	WG89376	ASTM D2216	25-MAR-11	24-MAR-11	U 1 %	1 %

Quality Control Report

Laboratory Control Sample Summary Report

TOC In Soil

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG89439-2	LCS	WG89439	23-MAR-11	N/A	ug/gdrywt	400000.000	400000	100	80-120	

Total Solids

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG89376-2	LCS	WG89376	25-MAR-11	24-MAR-11	%	90	90.	100	80-120	

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State of Maine
 Health and Environmental Testing Lab
 221 State Street Station #12
 Phone (207) 287-2727

Augusta, ME 04333-0012
 Fax (207) 287-1884

Chain - of - Custody

6010810

Sample Date: 3/17/2011

Town/County: Phillipsburg

Project Name: Kennecott dredge disposal

Company: Dot Kelly Appropriation/PO# _____ Y / N
 Contact: Dot Kelly Bill To: ck enclosed Pard Copy To: _____
 Address: 98 Pleasant Cove Rd Address: check # 291 Address _____
Phillipsburg, ME 04562 Address: \$140.00 Address _____
 Phone: 207-443-4787 Phone: _____ Phone: _____ Fax: _____
 e-Mail address: dot@dkelly.org e-Mail address _____ e-Mail address _____

Sample ID	Sample time	Preservation	Container vol	Container type	Quantity	Grab or Composite	Matrix: Ground Water, Waste Water, Drinking Water, Solids, Other	Analyses Required	HETL Number
MUCK-1	3 PM					G	Soil	#17 Metals: Cadmium/Chromium/Lead	6010810-001
MUCK-1	3 PM					G	Soil	VOE TOC # 20 per J.C.	002
MUCK-1	3 PM					G	Soil	Sieve analysis #20	
SANDY accumulation-2	3 PM					G	Soil	Sieve analysis #20	

Notes: Please do 2 grain size analyses MUCK-1 SAND-2
 3/17/2011
 I think they will be similar
 Sampled By Dorothy Kelly Date/Time 3:04 PM Received By Dot Kelly Date/Time MAR 21 2011 AM 10:14

Relinquished By _____ Date/Time _____
 Relinquished By _____ Date/Time _____
 Rush (Yes or No) _____ Fax Results (Yes or No) _____
 Custody seal intact (Yes or No) _____ Temperature on Arrival 22 °C

If the sample is deemed hazardous it may be returned to the client at your expense for proper disposal.
 By signing this Chain-of-Custody you agree that the limit of The HETL's liability to be the cost of the analytical fees in question.
 rev 5/11/07