



September 16, 2008

Project # 0807.000

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Attn: John Doe

Materials Identification of Waste Sludge by FTIR Spectroscopy

Fourier transform infrared spectroscopy (FTIR) is a method used to “fingerprint” substances. By searching a library of spectra, we are able to identify the composition of most substances. Samples were collected from the area surrounding the trash dumpster in the -- building. These samples were analyzed and found to be most similar to a variety of starch-based food items. There were no indications that the waste sludge was hazardous beyond potentially damaging surfaces due to its stickiness. Samples were screened for oils, solvents, and other harmful components and found to contain none of these.

Once hardened, the sludge is best removed with a strong adhesive remover such as 3M Adhesive & Wax Remover (03618).

This report contains the results of FTIR spectroscopy on samples collected by R. Fisher and C. Brown on 7/8/08 at 2:00 PM.

LCM Sample ID	Client Sample ID	Description	Best match
0807.000-01	n/a	Scraping	Cream of Wheat (starch)
0807.000-02	“	Paper transfer	Pepcid AC (corn starch)
0807.000-03	“	Swab transfer	Cream of Wheat (starch)

Comment

FTIR spectra and search results are attached.

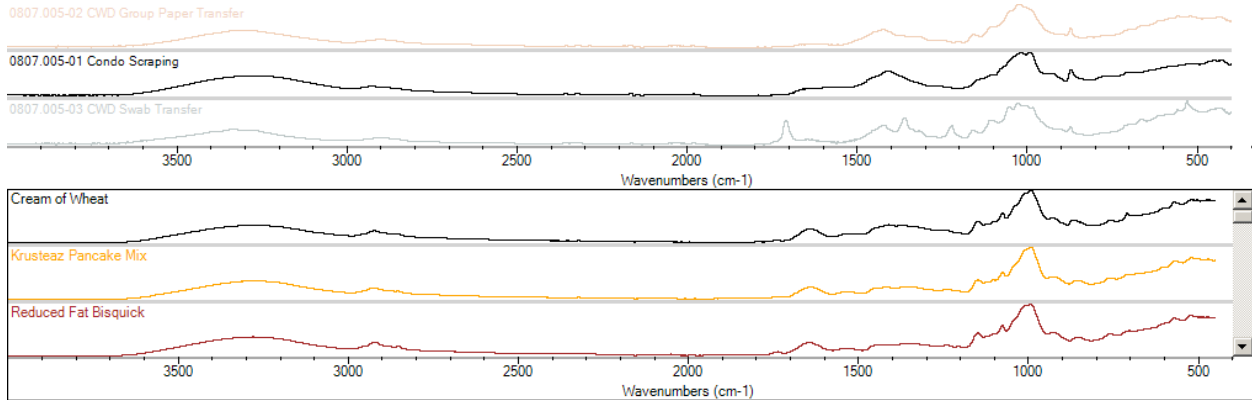
R. M. Fisher, PhD
Chief Scientist

C. K. Brown
Laboratory Supervisor



0807.005 CWD Group
FTIR Analysis of waste

Spectrum Search Results

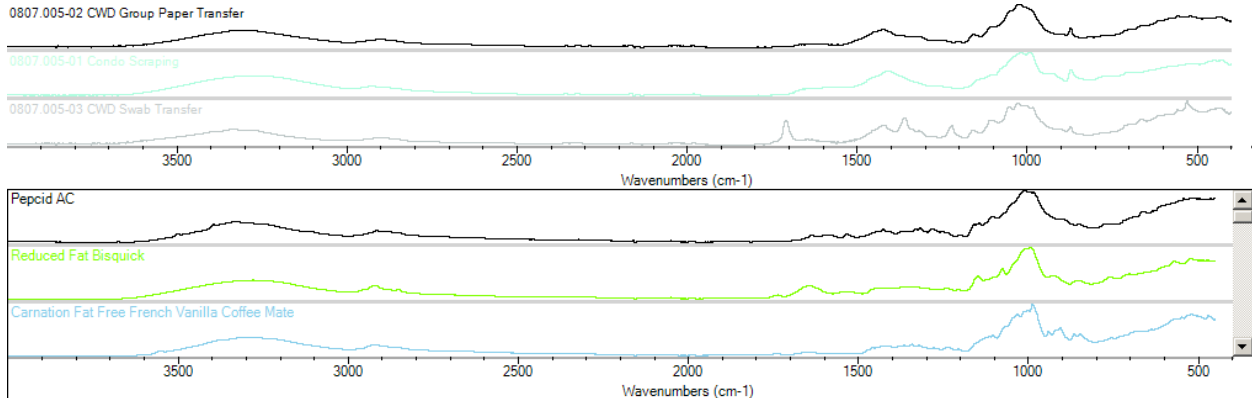


	Match	Title	Range	Folder	File name	Index
1	97.20	Cream of Wheat	4000.0-451.0	HR White Powders	c:\my documents\omnic\libs\sea461_hr white powder s.lbd	51
2	96.43	Krusteaz Pancake Mix	4000.0-451.0	HR White Powders	c:\my documents\omnic\libs\sea461_hr white powder s.lbd	109
3	96.36	Reduced Fat Bisquick	4000.0-451.0	HR White Powders	c:\my documents\omnic\libs\sea461_hr white powder s.lbd	25



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Spectrum Search Results

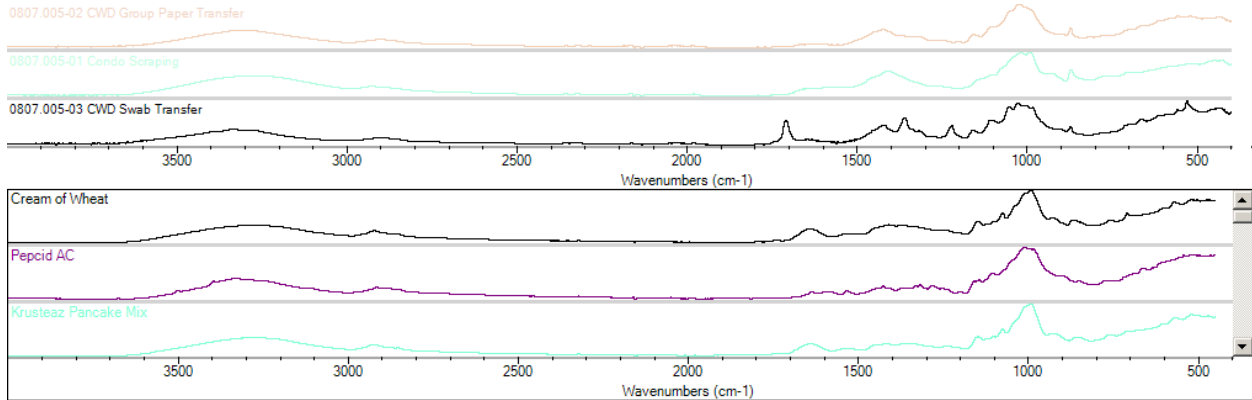


	Match	Title	Range	Folder	File name	Index
1	97.40	Pepcid AC	4000.0-451.0	HR White Powders	c:\my documents\omnic\libs\sea461_hr white powders.lbd	112
2	96.67	Reduced Fat Bisquick	4000.0-451.0	HR White Powders	c:\my documents\omnic\libs\sea461_hr white powders.lbd	25
3	96.66	Carnation Fat Free French Vanilla Coffee Mate	4000.0-451.0	HR White Powders	c:\my documents\omnic\libs\sea461_hr white powders.lbd	41



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Spectrum Search Results



	Match	Title	Range	Folder	File name	Index
1	95.14	Cream of Wheat	4000.0-451.0	HR White Powders	c:\my documents\omnic\libs\sea461_hr white powder s.lbd	51
2	94.83	Pepcid AC	4000.0-451.0	HR White Powders	c:\my documents\omnic\libs\sea461_hr white powder s.lbd	112
3	94.31	Krusteaz Pancake Mix	4000.0-451.0	HR White Powders	c:\my documents\omnic\libs\sea461_hr white powder s.lbd	109