

# Action Opportunities Worksheet



Team: Secondary nutrients (Ca, Mg, S, Organic Matrices, Sampling...)

## Near Term

- Finding a reference standard for a high (80-90%) sulfur. There is a standard available – LQSI has one – contact Neal Stevens
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- How do we prove that there is no need for matrix dependent curves when utilizing combustion with TCD detection. (done by Elementar)
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- ORGANIC MATRICES
- Lab experiments on natural, non-synthesized materials
  - Ashing, microwave digestion method testing:
- Charcoal products:
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## Long Term

- Microbial plate count
  - Monitor commercial lab methods
- Handling microbial products
  -
- Total S via combustion- SLV
  - PAC

# Action Priorities Worksheet



**Team: Secondary nutrients (Ca, Mg, S, Organic Matrices, Sampling...)**

## Not Capable/High Priority

- Biologicals – what would regulators need for labeling? Some sort of viable count? Reference -BAM

## Capable/High Priority

- Total S
  - Combustion – begin work on SLV – identify study director
  - Method must be able to operate with a single calibration, as opposed to separate curves for drift matrices.

## Not Capable/Low Priority

## Capable/Low Priority

- Microbial products – contact current labs for info on analysis of specific microbial species.
  - Dr. Ames, Dr Michael Carigelli – USDA-ARS [cavigelM@ba.ars.usda.gov](mailto:cavigelM@ba.ars.usda.gov)
  -
- Organic matrices: No existing QC; wood chips, feathers, etc.
  - Natural non-synthesized material testing of minerals
  - Magruder special sample? Dried ground compost? Mel Bryant
  - Magruder sample particle size and uniformity? Can be an issue with
  - Soo will be contacting some people – James Bartos
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1	Action Idea: Total Sulfur via combustion SLV	Champion:	Date Started: 2/2012
		PAC-Elementar	Target Completion: 1
WHAT needs to be done?		WHO will do it?	WHEN will it be done? ✓
Prepare written proposal for SLV for total S by combustion:		PAC	8/2013
Select samples for SLV, include organic samples, 80-90% and 9 samples from Sandys's study			
Data collection completed (SLV)			
Contact – Mosaic for MEZ product			
Add method code to the Magruder for S by combustion			

2	Action Idea: Phyto-availability of Secondary nutrients	Champion:	Date Started:
			Target Completion:
WHAT needs to be done?		WHO will do it?	WHEN will it be done? ✓
Solubility in what ? FDACS methodology – S. Carolina			
Check with Mike Norman – Washington State		Hugh	4/2013

3	Action Idea: Natural, non-synthesized material preparation study	Champion:	Date Started:
			Target Completion:
WHAT needs to be done?		WHO will do it?	WHEN will it be done? ✓
Include more organic/natural materials in Magruder Prog.		Bill Hall	2/14
Review data from organic samples, determine next steps		??	
Contact James Bartos on issues with these sample types		Hugh	4/13
Contact USDA RE: N-P-K results on biochar samples		Bill	4/13
Organic materials - Sample preparation - Check with Sharon as to overlap – digestion MW?		Hugh	

<b>4</b>	<b>Action Idea: Handling of microbial products</b>	<b>Champion:</b>	<b>Date Started: 2/2012</b>
			<b>Target Completion:</b>
<b>WHAT needs to be done?</b>		<b>WHO will do it?</b>	<b>WHEN will it be done?</b> ✓
Polling of commercial entities on methods		Hugh	7/13
Handling of products – transport, storage, stability, etc.		Deb/Hugh	7/13
Check with PGR AI's e.g. hormones, Dr. Kloepper Auburn		Deb	7/13
Eco-technologies, Amherst MA, Biofertility, Dr. Haim Gunner 413-253-7200		Hugh	7/13
Send specific invitations to AMS & others to attend Forum		Bill	7/13
Get Feedback on FDA FSMA Contact and Summary		Bill	2/14
Compile methods for genus identification – coordinate with Toby (OR Dept. of Ag)		Hugh	6/15
Review & list pathogens – re food codes & USP		Hugh	7/15

<b>5</b>	<b>Action Idea: Method for Chelated &amp; Complexing Agents</b>	<b>Champion:</b>	<b>Date Started:</b>
			<b>Target Completion:</b>
<b>WHAT needs to be done?</b>		<b>WHO will do it?</b>	<b>WHEN will it be done?</b> ✓
Compile methods for chelating / complexing agents [edta, glucoheptonates, etc] 12/2015		Hugh & ???	12/15