

Action Opportunities Worksheet



Team: NPK Group (Methods Forum 2015, Jacksonville, FL) DRAFT

Near Term

- Have prepared an SRM for 0-0-60 or 0-0-62 (Able Labs and LQSI/SGS). About 500 to 600 lbs. Maybe Bill Hall can help with grinding. Preference over 60 vs 62? 60 is preferred. Should be available less than 1 yr. (Note: PotashCorp/Barbara offered to provide this material and cover costs Thanks!!!)
- Dilutions. Instrument dilution option:
 Orange-white sample. Red-red internal
 standard ~ 4X dilution. Waste line is variable
 yellow-yellow, purple-black, just so
 considerably bigger. (Note: conc of IS and
 buffer must be reduced since pumping in
 more volume).
- Dilution factor for manual off-line dilution, try 5x and 10x. Sanford and James will do.
 Will use HNO3. May need different standards to mimic citrate-EDTA conc in dilutions. Details to be determined.
- Dennis is going to work with H2O2. Acetic acid and citrate-EDTA extract, add H2O2 various conc., see if/where baseline gets clean.
- Dion (Spectro) will work on parameters for adding O2 on-line to sample before plasma (as done with oil samples) to test reduction of Carbon impact. Barbara will send samples and standards for P and K method. O2 addition could be an add on for some PE and other ICP instruments.
- Dawne will send information to Dion with issue related to sample prep for high K samples (acid digest).

Near Term

- James send batch of liquid standards high concentrates to Scott (Simplot) to test different pump tubes with PE instrument.
- After preliminary work, James will develop SOP with help for practice samples.
- Option A is method as written (in line dilution
- Option B is O2 addition
- Option C is H2O2 addition
- Option D is off line dilution

Early June

Complete the investigatory work on options.

July

Practice samples sent out

 Brian will investigate the possible use of portable refractive index and densitometer equipment for N determination of UAN. Brian will also continue on with ISO method validation of combustion technique. Where possible, others will support Brian's efforts.



Action Priorities Worksheet



Team:

Not Capable/High Priority	Capable/High Priority •
Not Capable/Low Priority	Capable/Low Priority



Action Assignments



Team: Page ____ of ____

1	Action Idea:	Champion:	Date Started:	
			Target Completion:	
	WHAT needs to be done?	WHO will do it?	WHEN will it be done?	\checkmark
Prep	are 0-0-60 for SRM	Able Labs, LQSI, Potash Corp, Barbara	Jan 1 st , 2016	
	h batching collaborative study samples and complete ogeneity testing	Testing (James) Data Assistance (Frank)		
Optio	on B: Off line dilution	Sanford/James	By Early June	
Optio	on C: H2O2 addition	Dennis	By Early June	
Optio	on D: O2 addition	Deion (Spectro) Tim/Barbara (PotashCorp)	By Early June	
	n send Deion info on issues with sample prep analysis of K samples with acid digestion	Dawn (Mosaic), Dion (Spectro)		
Evalu	uation of pump tubings/settings with PE instrument	Scott	By Early June	
	elop SOP for practice samples to collect data on prior to borative study	James with guidance	June	
Send SOP	out or ask labs to redo practice samples with improved	James	July	

2	Action Idea:	Champion:	Date Started: Target Completion:	
	WHAT needs to be done?	WHO will do it?	WHEN will it be done?	√
Pur	sue validation of R.I. and S.G. for UAN	Brain	Make progress in 2015	
Pur	sue ISO validation of N Combustion Method	Brain	Make progress in 2015	
	port Brian with evaluation of densitometer units and other stance to the extent possible	Sanford/ Others	Dec 2015	

©2000 Leap Technologies, Inc.



Action Assignments



	Leap Technologies, Inc.		ľ	Y
Tea	am:		Page of	
3	Action Idea:	Champion:	Date Started:	
			Target Completion:	
	WHAT needs to be done?	WHO will do it?	WHEN will it be done?	\checkmark
				<u> </u>
				-
				<u> </u>
4	Action Idea:	Champion:	Date Started:	
			Target Completion:	
	WHAT needs to be done?	WHO will do it?	WHEN will it be done?	√