

**From:** [Ed Woloszyn](#)  
**To:** [Snavely, Keith](#)  
**Subject:** RE: Interim Maximum Allowable Concentration or IMAC for Ammonia in groundwater is 1500 ppb  
**Date:** Friday, July 08, 2011 10:19:07 AM  
**Attachments:** [C107759 INV 07 Jul 11 1547.pdf](#)  
[C107759 NCLF Regs 07 Jul 11 1545.xls](#)  
[C107759 FINAL 07 Jul 11 1545.PDF](#)

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Keith,

Attached are the laboratory reports and the data summary for the Biddle Street Site in New Bern. In summary, ammonia is in exceedance (slightly in the groundwater [IMACS =1.5 mg/L; Groundwater = 1.6 mg/L). For soil ammonia is also in exceedance (Soil to Groundwater Protection = 6.4 mg/Kg; Soil Sample 0'-0.5' = 520 mg/kg; Soil Sample 4.5'-5' = 7.3 mg/Kg). We can discuss on Monday.

Best regards,

Ed

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Edmund Woloszyn, Jr., R.E.M.  
Senior Consultant



ENGINEERING INTEGRITY.

S&ME, Inc.  
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Raleigh NC 27616 [Map](#)  
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**From:** Snavely, Keith [mailto:keith.snavely@ncdenr.gov]  
**Sent:** Thursday, July 07, 2011 5:13 PM  
**To:** Ed Woloszyn  
**Subject:** Interim Maximum Allowable Concentration or IMAC for Ammonia in groundwater is 1500 ppb

Ed,

This Interim groundwater Standard as of August 1, 2010 for Ammonia is 1500 ug/l.

Ammonia- no Preliminary Health -Based Remediation goal  
Ammonia- Protection of Groundwater standard – 6.4 mg/kg

Keith

Keith Snavelly, Hydrogeologist  
Inactive Hazardous Sites Branch  
NC Division of Waste Management  
401 Oberlin Road -Suite 150  
Raleigh, NC 27612

Office #: (919) 508- 8479  
Fax#: (919) 733-4811  
email: Keith.Snavelly@ncdenr.gov

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Laboratory **ENCO Cary**

Client: **S&ME, Inc. (SM001)**

Project: **Biddle Street**

					Lab Sample ID	C107759-01	C107759-02	C107759-03
					Date Collected	6/21/2011 13:30	6/21/2011 13:45	6/21/2011 13:30
SWSCClass	SpecificMethod	Analyte	RptUnits	Soil Remediation Soil-to- Groundwater Protection				
F	EPA 350.1	Ammonia as N	mg/kg dry	6.4	SB-1 (0-0_5) 520	SB-1 (4_5-5) 7.3	Dup - 1 630	

Laboratory **ENCO Cary**

Client: **S&ME, Inc. (SM001)**

Project: **Biddle Street**

					Lab Sample ID	C107759-01	C107759-02	C107759-03
					Date Collected	6/21/2011 13:30	6/21/2011 13:45	6/21/2011 13:30
SWSCClass	SpecificMethod	Analyte	RptUnits	Soil Remediation	SB-1 (0-0_5)	SB-1 (4_5-5)	Dup - 1	
F	EPA 9056A	Nitrate as N	mg/kg dry	26000	5.6	1.9	11	

Laborato **ENCO Cary**

Client: **S&ME, Inc. (SM001)**

Project: **Biddle Street**

					Lab Sample ID	C107759-04	C107759-05
					Date Collected	6/21/2011 14:45	6/21/2011 13:30
SWSCClass	SpecificMethod	Analyte	RptUnits	IMACS	GW-1	GW-Dup	
F	EPA 350.1	Ammonia as N	mg/L	1.5	1.6	1.6	

Laboratory **ENCO Cary**

Client: **S&ME, Inc. (SM001)**

Project: **Biddle Street**

					Lab Sample ID	C107759-04	C107759-05
					Date Collected	6/21/2011 14:45	6/21/2011 13:30
SWSCClass	SpecificMethod	Analyte	RptUnits	2L	GW-1	GW-Dup	
F	EPA 353.2	Nitrate as N	mg/L	10000	0.030	0.026	

**Environmental Conservation Laboratories, Inc.**

102-A Woodwinds Industrial Court

Cary NC, 27511

Phone: 919.467.3090 FAX: 919.467.3515



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Thursday, July 7, 2011

S&ME, Inc. (SM001)

Attn: Ed Woloszyn

3201 Spring Forest Road

Raleigh, NC 27616

**RE: Laboratory Results for**

**Project Number: 1054-11-2014, Project Name/Desc: Biddle Street**

**ENCO Workorder: C107759**

Dear Ed Woloszyn,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, June 22, 2011.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Chuck Smith'.

Chuck Smith

Project Manager

Enclosure(s)



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### SAMPLE SUMMARY/LABORATORY CHRONICLE

<b>Client ID:</b> SB-1 (0-0.5)	<b>Lab ID:</b> C107759-01	<b>Sampled:</b> 06/21/11 13:30	<b>Received:</b> 06/22/11 10:15
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 9056A	07/19/11 07/09/11 05:30	07/07/11 05:30	7/7/2011 08:19

<b>Client ID:</b> SB-1 (0-0.5)	<b>Lab ID:</b> C107759-01RE1	<b>Sampled:</b> 06/21/11 13:30	<b>Received:</b> 06/22/11 10:15
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 350.1	07/19/11 07/26/11	06/28/11 09:29	6/28/2011 14:06

<b>Client ID:</b> SB-1 (4.5-5)	<b>Lab ID:</b> C107759-02	<b>Sampled:</b> 06/21/11 13:45	<b>Received:</b> 06/22/11 10:15
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 350.1	07/19/11 07/26/11	06/28/11 09:29	6/28/2011 12:39
EPA 9056A	07/19/11 07/09/11 05:30	07/07/11 05:30	7/7/2011 08:36

<b>Client ID:</b> Dup - 1	<b>Lab ID:</b> C107759-03	<b>Sampled:</b> 06/21/11 13:30	<b>Received:</b> 06/22/11 10:15
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 9056A	07/19/11 07/09/11 05:30	07/07/11 05:30	7/7/2011 08:54

<b>Client ID:</b> Dup - 1	<b>Lab ID:</b> C107759-03RE1	<b>Sampled:</b> 06/21/11 13:30	<b>Received:</b> 06/22/11 10:15
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 350.1	07/19/11 07/26/11	06/28/11 09:29	6/28/2011 14:08

<b>Client ID:</b> GW-1	<b>Lab ID:</b> C107759-04	<b>Sampled:</b> 06/21/11 14:45	<b>Received:</b> 06/22/11 10:15
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 350.1	07/19/11	06/27/11 09:47	6/27/2011 11:55
EPA 353.2	03/16/14	06/23/11 13:06	6/23/2011 14:27

<b>Client ID:</b> GW-Dup	<b>Lab ID:</b> C107759-05	<b>Sampled:</b> 06/21/11 13:30	<b>Received:</b> 06/22/11 10:15
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Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 350.1	07/19/11	06/27/11 09:47	6/27/2011 11:57
EPA 353.2	03/16/14	06/23/11 13:06	6/23/2011 14:27



**SAMPLE DETECTION SUMMARY**

**Client ID: SB-1 (0-0.5) Lab ID: C107759-01**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Nitrate as N	5.6	J	0.13	11	mg/kg dry	EPA 9056A	

**Client ID: SB-1 (0-0.5) Lab ID: C107759-01RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	520	D	24	53	mg/kg dry	EPA 350.1	

**Client ID: SB-1 (4.5-5) Lab ID: C107759-02**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	7.3		0.53	1.2	mg/kg dry	EPA 350.1	
Nitrate as N	1.9	J	0.14	12	mg/kg dry	EPA 9056A	

**Client ID: Dup - 1 Lab ID: C107759-03**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Nitrate as N	11		0.13	11	mg/kg dry	EPA 9056A	

**Client ID: Dup - 1 Lab ID: C107759-03RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	630	D	24	53	mg/kg dry	EPA 350.1	

**Client ID: GW-1 Lab ID: C107759-04**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	1.6		0.045	0.10	mg/L	EPA 350.1	
Nitrate as N	0.030	J	0.025	0.10	mg/L	EPA 353.2	

**Client ID: GW-Dup Lab ID: C107759-05**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	1.6		0.045	0.10	mg/L	EPA 350.1	
Nitrate as N	0.026	J	0.025	0.10	mg/L	EPA 353.2	



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### ANALYTICAL RESULTS

**Description:** SB-1 (0-0.5)

**Matrix:** Soil

**Project:** Biddle Street

**Lab Sample ID:** C107759-01

**Sampled:** 06/21/11 13:30

**Sampled By:** Scott Young / Whit Rawls

**Received:** 06/22/11 10:15

**Work Order:** C107759

**% Solids:** 93.63

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### Classical Chemistry Parameters

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<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>MRL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Ammonia as N [7664-41-7]	520	D	mg/kg dry	50	24	53	1F28009	EPA 350.1	06/28/11 14:06	CCB	
Nitrate as N [14797-55-8]	5.6	J	mg/kg dry	1	0.13	11	1G07004	EPA 9056A	07/07/11 08:19	CCB	



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**Description:** SB-1 (4.5-5)

**Matrix:** Soil

**Project:** Biddle Street

**Lab Sample ID:** C107759-02

**Sampled:** 06/21/11 13:45

**Sampled By:** Scott Young / Whit Rawls

**Received:** 06/22/11 10:15

**Work Order:** C107759

**% Solids:** 84.51

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### Classical Chemistry Parameters

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<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>MRL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Ammonia as N [7664-41-7]	7.3		mg/kg dry	1	0.53	1.2	1F28009	EPA 350.1	06/28/11 12:39	CCB	
Nitrate as N [14797-55-8]	1.9	J	mg/kg dry	1	0.14	12	1G07004	EPA 9056A	07/07/11 08:36	CCB	

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**Description:** Dup - 1

**Matrix:** Soil

**Project:** Biddle Street

**Lab Sample ID:** C107759-03

**Sampled:** 06/21/11 13:30

**Sampled By:** Scott Young / Whit Rawls

**Received:** 06/22/11 10:15

**Work Order:** C107759

**% Solids:** 94.33

**Classical Chemistry Parameters**

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>MRL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Ammonia as N [7664-41-7]	630	D	mg/kg dry	50	24	53	1F28009	EPA 350.1	06/28/11 14:08	CCB	
Nitrate as N [14797-55-8]	11		mg/kg dry	1	0.13	11	1G07004	EPA 9056A	07/07/11 08:54	CCB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.



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**Description:** GW-1

**Lab Sample ID:** C107759-04

**Received:** 06/22/11 10:15

**Matrix:** Ground Water

**Sampled:** 06/21/11 14:45

**Work Order:** C107759

**Project:** Biddle Street

**Sampled By:** Scott Young / Whit Rawls

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### Classical Chemistry Parameters

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^ - ENCO Cary certified analyte [NC 591]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>MRL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Ammonia as N [7664-41-7] ^	1.6		mg/L	1	0.045	0.10	1F27007	EPA 350.1	06/27/11 11:55	CCB	
Nitrate as N [14797-55-8] ^	0.030	J	mg/L	1	0.025	0.10	1F23023	EPA 353.2	06/23/11 14:27	CCB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.



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**Description:** GW-Dup

**Lab Sample ID:** C107759-05

**Received:** 06/22/11 10:15

**Matrix:** Ground Water

**Sampled:** 06/21/11 13:30

**Work Order:** C107759

**Project:** Biddle Street

**Sampled By:** Scott Young / Whit Rawls

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### Classical Chemistry Parameters

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^ - ENCO Cary certified analyte [NC 591]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>MRL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Ammonia as N [7664-41-7] ^	1.6		mg/L	1	0.045	0.10	1F27007	EPA 350.1	06/27/11 11:57	CCB	
Nitrate as N [14797-55-8] ^	0.026	J	mg/L	1	0.025	0.10	1F23023	EPA 353.2	06/23/11 14:27	CCB	



**QUALITY CONTROL**

**Classical Chemistry Parameters - Quality Control**

Batch 1F22029 - NO PREP

**Blank (1F22029-BLK1)**

Prepared: 06/22/2011 13:02 Analyzed: 06/22/2011 13:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.0030	U	0.10	mg/L							

**LCS (1F22029-BS1)**

Prepared: 06/22/2011 13:02 Analyzed: 06/22/2011 13:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00		103	90-110			

**Matrix Spike (1F22029-MS1)**

Prepared: 06/22/2011 13:02 Analyzed: 06/22/2011 14:06

Source: C106201-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.7		0.10	mg/L	1.00	0.85	89	90-110			QM-05

**Matrix Spike Dup (1F22029-MSD1)**

Prepared: 06/22/2011 13:02 Analyzed: 06/22/2011 14:07

Source: C106201-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.7		0.10	mg/L	1.00	0.85	90	90-110	0.3	10	

Batch 1F23003 - NO PREP

**Blank (1F23003-BLK1)**

Prepared: 06/23/2011 08:03 Analyzed: 06/23/2011 11:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.047	J	0.10	mg/L							

**LCS (1F23003-BS1)**

Prepared: 06/23/2011 08:03 Analyzed: 06/23/2011 11:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3	B	0.10	mg/L	1.25		104	90-110			

**Matrix Spike (1F23003-MS1)**

Prepared: 06/23/2011 08:03 Analyzed: 06/23/2011 11:41

Source: C106988-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.91	B	0.10	mg/L	0.500	0.39	104	90-110			

**Matrix Spike Dup (1F23003-MSD1)**

Prepared: 06/23/2011 08:03 Analyzed: 06/23/2011 11:43

Source: C106988-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.89	B	0.10	mg/L	0.500	0.39	100	90-110	2	10	

Batch 1F27007 - NO PREP

**Blank (1F27007-BLK1)**

Prepared: 06/27/2011 09:47 Analyzed: 06/27/2011 11:16

**QUALITY CONTROL****Classical Chemistry Parameters - Quality Control**

Batch 1F27007 - NO PREP

**Blank (1F27007-BLK1) Continued**

Prepared: 06/27/2011 09:47 Analyzed: 06/27/2011 11:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	0.045	U	0.10	mg/L							

**LCS (1F27007-BS1)**

Prepared: 06/27/2011 09:47 Analyzed: 06/27/2011 11:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	1.0		0.10	mg/L	1.00		100	90-110			

**Matrix Spike (1F27007-MS1)**

Prepared: 06/27/2011 09:47 Analyzed: 06/27/2011 11:24

Source: C106237-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	0.37		0.10	mg/L	0.389	0.045 U	95	90-110			

**Matrix Spike Dup (1F27007-MSD1)**

Prepared: 06/27/2011 09:47 Analyzed: 06/27/2011 11:26

Source: C106237-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	0.36		0.10	mg/L	0.389	0.045 U	94	90-110	2	10	

Batch 1F28009 - WETS-88 Soil Leaching

**Blank (1F28009-BLK1)**

Prepared: 06/28/2011 09:29 Analyzed: 06/28/2011 12:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	0.45	U	1.0	mg/kg wet							

**LCS (1F28009-BS1)**

Prepared: 06/28/2011 09:29 Analyzed: 06/28/2011 12:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	10		1.0	mg/kg wet	10.0		100	90-110			

**Matrix Spike (1F28009-MS1)**

Prepared: 06/28/2011 09:29 Analyzed: 06/28/2011 14:03

Source: C107759-01RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	590	D	53	mg/kg dry	4.27	520	NR	90-110			QM-05

**Matrix Spike Dup (1F28009-MSD1)**

Prepared: 06/28/2011 09:29 Analyzed: 06/28/2011 14:05

Source: C107759-01RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	600	D	53	mg/kg dry	4.26	520	NR	90-110	2	10	QM-05

Batch 1G07004 - WETS-88 Soil Leaching

**Blank (1G07004-BLK1)**

Prepared: 07/07/2011 05:30 Analyzed: 07/07/2011 06:15



**QUALITY CONTROL**

**Classical Chemistry Parameters - Quality Control**

Batch 1G07004 - WETS-88 Soil Leaching

**Blank (1G07004-BLK1) Continued**

Prepared: 07/07/2011 05:30 Analyzed: 07/07/2011 06:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	0.12	U	10	mg/kg wet							

**LCS (1G07004-BS1)**

Prepared: 07/07/2011 05:30 Analyzed: 07/07/2011 06:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	52		10	mg/kg wet	50.0		103	90-110			

**Matrix Spike (1G07004-MS1)**

Prepared: 07/07/2011 05:30 Analyzed: 07/07/2011 06:50

Source: C106703-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	9.8	J	10	mg/kg wet	9.73	0.12 U	101	80-120			

**Matrix Spike Dup (1G07004-MSD1)**

Prepared: 07/07/2011 05:30 Analyzed: 07/07/2011 07:08

Source: C106703-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	9.8	J	10	mg/kg wet	9.82	0.12 U	100	80-120	0.06	15	

**FLAGS/NOTES AND DEFINITIONS**

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
ND	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

