Laboratory and SDG#: TADenver 280-134091 AECOM Chemist: Jared DeSadier Date Verified: 3/24/2020 AECOM ITR: Savannah Wolfe

Guidance: DoD QSM Version 5.1 (January 2017)

Applicable QAPP: Cornhusker Army Ammunition Plant QAPP (Brice and AECOM, October 2018) Applicable Analytical Methods: 8330A, 353.2, 350.1, 351.2, RSK-175, 9060A, 2320B, 9056A, 9034

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
EW7-PM23A-2-25	2/26/2020	2/27/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A) Sulfide (9034), Alkalinity (2320B)
EW7-PM523A-2-25	2/26/2020	2/27/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A) Sulfide (9034), Alkalinity (2320B)
EW7-PM21A-2-25	2/26/2020	2/27/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A) Sulfide (9034), Alkalinity (2320B)
EW7-PM22A-2-25	2/26/2020	2/27/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A) Sulfide (9034), Alkalinity (2320B)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD QSM deviations noted in the laboratory case narrative?	X		
Were DoD QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The case narrative indicated that some surrogate, LCS/LCSD, and MS/MSD recoveries were outside evaluation criteria. These issues are discussed further in the ADR report.

RPD between the primary and confirmation column for some explosives samples was above evaluation criteria. This issue is discussed further in Section 8.0

No other issues were noted in the case narrative or cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?		
Did samples listed on COCs match the sample labels?		
Were samples relinquished properly on the COC?	X	

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3.0 Initial Calibration

Method 8330A Initial Calibration Criteria				
Instrument:		CHHPLC_X3		
Date of Calibration:	7/	1/2019		
	Yes	No	N/A	
Was at least a five point calibration completed for all analytes prior to sample analysis and one option below?	X			
Option 1: RSD for each analyte $\leq 20\%$?	X			
Option 2: If linear least squares regression was used was the $r^2 \ge 0.99$?			X	
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \ge 0.99$?			X	
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X	

Method 8330A Initial Calibration Criteria				
Instrument:		CHHPLC_X3		
Date of Calibration:	3/	4/2020		
	Yes	No	N/A	
Was at least a five point calibration completed for all analytes prior to sample analysis and one option below?	X			
Option 1: RSD for each analyte ≤ 20%?	X			
Option 2: If linear least squares regression was used was the $r^2 \ge 0.99$?			X	
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \ge 0.99$?			X	
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X	

Method 8330A Initial Calibration Criteria				
Instrument:	CHE	IPLC_	X3	
Date of Calibration:	3/	4/2020		
	Yes	No	N/A	
Was at least a five point calibration completed for all analytes prior to sample analysis and one option below?	X			
Option 1: RSD for each analyte ≤ 20%?	X			
Option 2: If linear least squares regression was used was the $r^2 \ge 0.99$?			X	
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \ge 0.99$?			X	
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X	

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Method 8330A Initial Calibration Criteria			
Instrument:	CHHPLO	C_ G2 _I	LUNA
Date of Calibration:	3/3	3/2020	
	Yes	No	N/A
Was at least a five point calibration completed for all analytes prior to sample analysis and one option below?	X		
Option 1: RSD for each analyte $\leq 20\%$?	X		
Option 2: If linear least squares regression was used was the $r^2 \ge 0.99$?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \ge 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8330A Initial Calibration Criteria				
Instrument:		CHHPLC_G2_LUNA		
Date of Calibration:		3/3/2020		
	Yes	No	N/A	
Was at least a five point calibration completed for all analytes prior to sample analysis and one option below?	X			
Option 1: RSD for each analyte $\leq 20\%$?	X			
Option 2: If linear least squares regression was used was the $r^2 \ge 0.99$?			X	
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \ge 0.99$?			X	
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X	

Method RSK-175 Initial Calibration Criteria				
Instrument:		VGC_	J	
Date of Calibration:	0	4/15/20)19	
	Yes	No	N/A	
Was at least a five point calibration completed for all analytes prior to sample analysis and one option below?	X			
Option 1: RSD for each analyte $\leq 25\%$?	X			
Option 2: If linear least squares regression was used was the $r^2 \ge 0.99$?	X			
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \ge 0.99$?			X	
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X	

Method 9056A Initial Calibration Criteria			
Instrument:	WC_I	onChr	om10
Date of Calibration:	2/2	2/24/2020	
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	X		
Was $r^2 \ge 0.99$?	X		

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Guidance: DoD QSM Version 5.1 (January 2017)

Method 350.1 Initial Calibration Criteria			
Instrument:	W	C_Alp	3
Date of Calibration:	3	3/3/202	0
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	X		
Was $r^2 \ge 0.99$?	X		

Method 350.1 Initial Calibration Criteria			
Instrument:	W	/C_Alp	3
Date of Calibration:	3/5/2020		0
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	X		
Was $r^2 \ge 0.99$?	X		

Method 353.2 Initial Calibration Criteria			
Instrument:	W	C_Alp	2
Date of Calibration:	2/27/2020		20
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	X		
Was $r^2 \ge 0.99$?	X		

Method 353.2 Initial Calibration Criteria			
Instrument:	W	/C_Alı	2
Date of Calibration:	3	3/2/2020	
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	X		
Was $r^2 \ge 0.99$?	X		

Method 351.2 Initial Calibration Criteria			
Instrument:	W	C_Asto	oria
Date of Calibration:	3	3/4/2020	
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	X		
Was $r^2 \ge 0.99$?	X		

Method 9060A Initial Calibration Criteria			
Instrument:	W	C_SH	I3
Date of Calibration:	3	3/4/2020	
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	X		
Was $r^2 \ge 0.99$?	X		

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Guidance: DoD QSM Version 5.1 (January 2017)

Applicable QAPP: Cornhusker Army Ammunition Plant QAPP (Brice and AECOM, October 2018) Applicable Analytical Methods: 8330A, 353.2, 350.1, 351.2, RSK-175, 9060A, 2320B, 9056A, 9034

4.0 Initial Calibration Verification [(ICV) Second Source]

Method 8330A ICV Criteria (Filename)	07010015.D		
Instrument:	CHHPLC_X3		
Date of Initial Calibration Verification:	7/1/2019		
	Yes	No	N/A
Was the ICV analyzed after each calibration?	X		
Was the ICV for all analytes within ± 15% of the true value?	X		

Method 8330A ICV Criteria (Filename)	03040015.D		D
Instrument:	CHHPLC_X3		
Date of Initial Calibration Verification:	3/4/2020		
	Yes No N		N/A
Was the ICV analyzed after each calibration?	X		
Was the ICV for all analytes within \pm 15% of the true value?	X		

Method 8330A ICV Criteria (Filename)	03040033.D		D
Instrument:	CHHPLC_X3		
Date of Initial Calibration Verification:	3/4/2020		
	Yes	No	N/A
Was the ICV analyzed after each calibration?	X		
Was the ICV for all analytes within \pm 15% of the true value?	X		

Method 8330A ICV Criteria (Filename)	03030015.D		
Instrument:	CHHPI	LUNA	
Date of Initial Calibration Verification:	3/3/2020		
	Yes	No	N/A
Was the ICV analyzed after each calibration?	X		
Was the ICV for all analytes within \pm 15% of the true value?	X		

Method 8330A ICV Criteria (Filename)	03030024.D		
Instrument:	CHHPLC_G2-LUNA		
Date of Initial Calibration Verification:	3/4/2020		
	Yes	No	N/A
Was the ICV analyzed after each calibration?	X		
Was the ICV for all analytes within \pm 15% of the true value?	X		

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Guidance: DoD QSM Version 5.1 (January 2017)

Method RSK-175 ICV Criteria (Filename)	04	.D	
Instrument:		VGC_J	Ī
Date of Initial Calibration Verification:	4/15/2019		
	Yes	No	N/A
Was the ICV analyzed after each calibration?	X		
Was the ICV for all analytes within \pm 25% of the true value?	X		

Method 9056A ICV	WC_IonChrom10		
Date of Initial Calibration Verification:	2/24/2020		
	Yes	No	N/A
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV for all analytes within \pm 10% of the true value?	X		

Method 350.1 ICV Criteria	WC_Alp 3		
Date of Initial Calibration Verification:	3/3/2020		
	Yes	No	N/A
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV for all analytes within \pm 10% of the true value?	X		

Method 350.1 ICV Criteria	W	WC_Alp 3		
Date of Initial Calibration Verification:	3	3/5/2020		
	Yes	No	N/A	
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X			
Was the ICV for all analytes within \pm 10% of the true value?	X			

Method 353.2 ICV Criteria	WC_Alp 2		
Date of Initial Calibration Verification:	2/27/2020		
	Yes	No	N/A
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV for all analytes within \pm 10% of the true value?	X		

Method 353.2 ICV Criteria	WC_Alp 2		
Date of Initial Calibration Verification:	3/2/2020		
	Yes	No	N/A
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV for all analytes within \pm 10% of the true value?	X		

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Guidance: DoD QSM Version 5.1 (January 2017)

Applicable QAPP: Cornhusker Army Ammunition Plant QAPP (Brice and AECOM, October 2018) Applicable Analytical Methods: 8330A, 353.2, 350.1, 351.2, RSK-175, 9060A, 2320B, 9056A, 9034

Method 351.2 ICV Criteria	WC_Astoria		ria
Date of Initial Calibration Verification:	3/4/2020)
	Yes	No	N/A
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV for all analytes within \pm 10% of the true value?	X		

Method 9060A ICV Criteria	W	WC_SHI3		
Date of Initial Calibration Verification:	3	3/4/2020		
	Yes	No	N/A	
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X			
Was the ICV for all analytes within \pm 10% of the true value?	X			

5.0 Continuing Calibration Verification (CCV)

Method 8330A CCV Criteria (Filename)	03020020_2.D			
Instrument:	CH	CHHPLC_X3		
Date of Calibration Verification:	3/2/2020			
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	X			
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X			
Was the CCV for all analytes within \pm 15% of the true value?	X			

Method 8330A CCV Criteria (Filename)	030	03020033_5.D		
Instrument:	СН	CHHPLC_X3		
Date of Calibration Verification:	3	3/3/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	X			
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X			
Was the CCV for all analytes within \pm 15% of the true value?	X			

Method 8330A CCV Criteria (Filename)	030	0303019_20.D		
Instrument:	СН	CHHPLC_X3		
Date of Calibration Verification:		3/3/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	X			
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X			
Was the CCV for all analytes within \pm 15% of the true value?	X			

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Method 8330A CCV Criteria (Filename)	030	03030031_2.D		
Instrument:	СН	CHHPLC_X3		
Date of Calibration Verification:		3/4/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	X			
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X			
Was the CCV for all analytes within \pm 15% of the true value?	X			

Method 8330A CCV Criteria (Filename)	030	03030035_6.D		
Instrument:	СН	CHHPLC X3		
Date of Calibration Verification:		3/4/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	X			
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X			
Was the CCV for all analytes within \pm 15% of the true value?	X			

Method 8330A CCV Criteria (Filename)	0304	03040069_71.D		
Instrument:	СН	CHHPLC X3		
Date of Calibration Verification:	3	3/5/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	X			
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X			
Was the CCV for all analytes within \pm 15% of the true value?	X			

Method 8330A CCV Criteria (Filename)	03040082_4.D			
Instrument:	СН	CHHPLC_X3		
Date of Calibration Verification:	3/5/2020			
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	X			
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X			
Was the CCV for all analytes within \pm 15% of the true value?	X			

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Method 8330A CCV Criteria (Filename)	030	03090007_9.D		
Instrument:	СН	CHHPLC_X3		
Date of Calibration Verification:		3/9/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	X			
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X			
Was the CCV for all analytes within \pm 15% of the true value?	X			

Method 8330A CCV Criteria (Filename)	0309	03090012_14.D		
Instrument:	СН	CHHPLC_X3		
Date of Calibration Verification:	3	3/9/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	X			
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X			
Was the CCV for all analytes within \pm 15% of the true value?	X			

Method 8330A CCV Criteria (Filename)	030	03030035_6.D		
Instrument:	CHHPI	CHHPLC_G2_LUN		
Date of Calibration Verification:	3	3/3/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	X			
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X			
Was the CCV for all analytes within \pm 15% of the true value?	X			

Method 8330A CCV Criteria (Filename)	030	03030047_8.D		
Instrument:	CHHPI	CHHPLC_G2_LUN		
Date of Calibration Verification:	3	3/4/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	X			
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X			
Was the CCV for all analytes within \pm 15% of the true value?	X			

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Method 8330A CCV Criteria (Filename)	030	03090019_20.D		
Instrument:	CHHP	CHHPLC_G2_LUNA		
Date of Calibration Verification:		3/9/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	X			
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X			
Was the CCV for all analytes within \pm 15% of the true value?	X			

Method 8330A CCV Criteria (Filename)	030	03090031_32.D		
Instrument:	CHHP	CHHPLC_G2_LUNA		
Date of Calibration Verification:		3/10/20		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	X			
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X			
Was the CCV for all analytes within \pm 15% of the true value?	X			

Method RSK-175 CCV Criteria (Filename)	0:	022F1501.D		
Instrument:		VGC_J		
Date of Calibration Verification:		3/4/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	X			
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X			
Was the CCV for all analytes within \pm 25% of the true value?	X			

Method RSK-175 CCV Criteria (Filename)	0.	036F2901.D		
Instrument:		VGC_J		
Date of Calibration Verification:		3/4/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	X			
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	X			
Was the CCV for all analytes within \pm 25% of the true value?	X			

Method 9056A, Instrument: WC_IonChrom10, All CCVs on 3/9/2020	Yes	No
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	X	
Were the CCVs for all analytes within \pm 10% of the true value?	X	

Method 350.1, Instrument: WC_Alp 3, All CCVs on 3/3/2020	Yes	No
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	X	
Were the CCVs for all analytes within \pm 10% of the true value?	X	

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Method 350.1, Instrument: WC_Alp 3, All CCVs on 3/5/2020	Yes	No
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	X	
Were the CCVs for all analytes within \pm 10% of the true value?	X	

Method 353.2, Instrument: WC_Alp 2, All CCVs on 2/27/2020	Yes	No
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	X	
Were the CCVs for all analytes within \pm 10% of the true value?	X	

Method 353.2, Instrument: WC_Alp 2, All CCVs on 3/2/2020			
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	X		
Were the CCVs for all analytes within \pm 10% of the true value?	X		

Method 351.2, Instrument: WC_Astoria, All CCVs on 3/4/2020		
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	X	
Were the CCVs for all analytes within \pm 10% of the true value?	X	

Method 9060A, Instrument: WC_SHI3, All CCVs on 3/4/2020			
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	X		
Were the CCVs for all analytes within \pm 10% of the true value?	X		

6.0 Blank Samples

Blank Criteria			N/A
Were method blanks analyzed with every preparatory batch?	X		
Were target analytes detected $> \frac{1}{2}$ the LOQ and $> 1/10$ the amount measured in any sample or $1/10$ the regulatory limit (whichever is greater)?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

7.0 Sensitivity

Sensitivity Criteria			N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?			
Did all analytes meet sensitivity requirements?	X		

8.0 Additional Qualifications

Additional Qualification Criteria			N/A
Were common laboratory contaminants detected?			
Was professional judgment used to qualify data (if yes, list below)?			

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The RPD between the primary and confirmation column for some explosives samples was above evaluation criteria. Qualification of data is shown in the table below; results were reported from the primary column unless otherwise noted.

Sample ID	Analysis	Analyte	RPD	Qual
EW7-PM23A-2-25	Explosives	MNX	170.5	UJ
EW7-PM23A-2-25	Explosives	2,4-dinitrotoluene	56.1	J
EW7-PM23A-2-25	Explosives	2-amino-4,6-dinitrotoluene	42.9	J
EW7-PM523A-2-25	Explosives	MNX	174.0	UJ
EW7-PM523A-2-25	Explosives	2-amion-4,6-dinitrotoluene	49.7	J
EW7-PM21A-2-25	Explosives	HMX	147.6	J
EW7-PM21A-2-25	Explosives	RDX	115.9	J
EW7-PM22A-2-25	Explosives	4-amino-2,6-dinitrotoluene	117.7	J

9.0 Completeness

Completeness Criteria			N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?			
Were requested sample analyses performed, the correct analyte lists used, and correct sample preparation and analyses methods and units utilized?	X		