Laboratory and SDG#: TADenver 280-134297 Date Verified: 4/17/2020 AECOM Chemist: Jared DeSadier AECOM ITR: Savannah Wolfe

Guidance: DoD QSM Version 5.1 (January 2017)

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
G0078-2	3/4/2020	3/5/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B)
NW022-2	3/4/2020	3/5/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B)
G0077-2	3/4/2020	3/5/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B)
G0024-2	3/4/2020	3/5/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B)
PZ018-2	3/4/2020	3/5/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B)
PZ020-2	3/4/2020	3/5/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B)
PZ017R-2	3/4/2020	3/5/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B)
PZ021-2	3/4/2020	3/5/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B)
NW021-2	3/4/2020	3/5/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B)
NW023-2	3/4/2020	3/5/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B)
NW020-2	3/4/2020	3/5/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B)
CA213-2	3/3/2020	3/5/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B)
G0086-2	3/3/2020	3/5/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B)
G0087-2	3/3/2020	3/5/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B)

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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

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
NW050-2	3/3/2020	3/5/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B)
NW051-2	3/3/2020	3/5/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B)
NW052-2	3/3/2020	3/5/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A), Alkalinity (2320B)
NW082R-2	3/3/2020	3/5/2020	Water	Explosives (8330A), Nitrate, Nitrite (353.2), Ammonia (350.1), TKN (351.2), MEE (RSK-175), DOC (9060A), Sulfate (9056A), 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?	Х		
Were DoD QSM corrective actions followed if deviations were noted?	Х		
Were any issues noted in the cooler receipt form?	Х		

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

The case narrative also indicated that sulfate was detected in blank samples. This issue is discussed further in Section 6.0. The RPD between the primary and confirmation column for some explosives samples was above evaluation criteria. This issue is discussed further in Section 8.0.

The cooler receipt form indicated some discrepancies between the COC and some sample labels. This issue is discussed further in Section 2.0.

Due to laboratory error, sulfide was not analyzed for these samples. Sulfide will be evaluated at the next sampling event for the associated samples and no qualification of data was required.

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

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2.0 Sample Documentation

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

The cooler receipt form indicated some discrepancies between the COC and some sample labels. Per the chemist, samples were logged via the COC and no qualification of data was required.

3.0 Initial Calibration

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?	Х				
Option 1: RSD for each analyte $\leq 20\%$?	Х				
Option 2: If linear least squares regression was used was the $r^2 \ge 0.99$?			Х		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \ge 0.99$?			Х		
If non-linear regression was used were 6 points used for second order and 7 points for third order?			Х		

Method 8330A Initial Calibration Criteria					
Instrument:		CHHPLC_X3			
Date of Calibration:		3/18/2020			
	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 $\leq 20\%$?	Х				
Option 2: If linear least squares regression was used was the $r^2 \ge 0.99$?			Х		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \ge 0.99$?			Х		
If non-linear regression was used were 6 points used for second order and 7 points for third order?			Х		

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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?	Х				
Option 1: RSD for each analyte $\leq 20\%$?	Х				
Option 2: If linear least squares regression was used was the $r^2 \ge 0.99$?			Х		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \ge 0.99$?			Х		
If non-linear regression was used were 6 points used for second order and 7 points for third order?			Х		

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

Method 8330A Initial Calibration Criteria					
Instrument:		CHHPLC_G2_LUNA			
Date of Calibration:		3/30/2020			
	Yes	No	N/A		
Was at least a five point calibration completed for all analytes prior to sample analysis and one option below?	Х				
Option 1: RSD for each analyte $\leq 20\%$?	Х				
Option 2: If linear least squares regression was used was the $r^2 \ge 0.99$?			Х		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \ge 0.99$?			Х		
If non-linear regression was used were 6 points used for second order and 7 points for third order?			Х		

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Method RSK-175 Initial Calibration Criteria					
Instrument:		VGC J			
Date of Calibration:		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?	Х				
Option 1: RSD for each analyte $\leq 25\%$?	Х				
Option 2: If linear least squares regression was used was the $r^2 \ge 0.99$?	Х				
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \ge 0.99$?			Х		
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_IonChrom1					
Date of Calibration:		3/18/2020			
	Yes	No	N/A		
Was a minimum of three standards and a calibration blank used for ICAL?	Х				
Was $r^2 \ge 0.99?$	Х				

Method 9056A Initial Calibration Criteria			
Instrument:	WC_I	onChr	om7
Date of Calibration:		3/23/2020	
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	Х		
Was $r^2 \ge 0.99$?	Х		

Method 350.1 Initial Calibration Criteria			
Instrument:	WC_Alp 4		o 4
Date of Calibration:	3/20/2020		20
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	Х		
Was $r^2 \ge 0.99$?	Х		

Method 350.1 Initial Calibration Criteria			
Instrument:	WC_Alp 4		o 4
Date of Calibration:	3	3/21/2020	
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	Х		
Was $r^2 \ge 0.99$?	Х		

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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

Method 353.2 Initial Calibration Criteria			
Instrument:	N	WC_Alp 2	
Date of Calibration:	3	3/11/2020	
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	Х		
Was $r^2 \ge 0.99$?	Х		

Method 351.2 Initial Calibration Criteria			
Instrument:	W	WC_Astoria	
Date of Calibration:	3	3/16/2020	
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	Х		
Was $r^2 \ge 0.99$?	Х		

Method 9060A Initial Calibration Criteria			
Instrument:	WC_SHI3		I I 3
Date of Calibration:	3	3/19/2020	
	Yes	No	N/A
Was a minimum of three standards and a calibration blank used for ICAL?	Х		
Was $r^2 \ge 0.99$?	Х		

4.0 Initial Calibration Verification [(ICV) Second Source]

Method 8330A ICV Criteria (Filename)	03	03040033.D	
Instrument:	СН	CHHPLC_X3	
Date of Initial Calibration Verification:	3	3/5/2020	
	Yes	No	N/A
Was the ICV analyzed after each calibration?	Х		
Was the ICV for all analytes within $\pm 15\%$ of the true value?	Х		

Method 8330A ICV Criteria (Filename)	03	D	
Instrument:	CHHPLC_X3		
Date of Initial Calibration Verification:	3/18/2020		
	Yes	No	N/A
Was the ICV analyzed after each calibration?	Х		
Was the ICV for all analytes within \pm 15% of the true value?	Х		

Method 8330A ICV Criteria (Filename)	03030024.D
Instrument:	CHHPLC_G2-LUNA

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Date of Initial Calibration Verification:	3/4/2020		
	Yes	No	N/A
Was the ICV analyzed after each calibration?	Х		
Was the ICV for all analytes within \pm 15% of the true value?	Х		

Method 8330A ICV Criteria (Filename)	03	03200016.D		
Instrument:	СННР	CHHPLC_G2-LUNA		
Date of Initial Calibration Verification:	3	3/20/2020		
	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)	03	03300016.D		
Instrument:	CHHP	CHHPLC_G2-LUNA		
Date of Initial Calibration Verification:	3	3/30/2020		
	Yes	No	N/A	
Was the ICV analyzed after each calibration?	Х			
Was the ICV for all analytes within \pm 15% of the true value?	Х			

Method RSK-175 ICV Criteria (Filename)	04	04151911.D	
Instrument:	VGC_J		
Date of Initial Calibration Verification:	4/15/2019		
	Yes	No	N/A
Was the ICV analyzed after each calibration?	Х		
Was the ICV for all analytes within $\pm 25\%$ of the true value?	Х		

Method 9056A ICV	WC_IonChrom10		
Date of Initial Calibration Verification:	3/18/2020		
	Yes	No	N/A
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	Х		
Was the ICV for all analytes within \pm 10% of the true value?	Х		

Method 9056A ICV	WC_IonChrom7		
Date of Initial Calibration Verification:	3/23/2020		0
	Yes	No	N/A
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	Х		
Was the ICV for all analytes within \pm 10% of the true value?	Х		

Method 350.1 ICV Criteria	WC_Alp 4
Date of Initial Calibration Verification:	3/20/2020

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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

	Yes	No	N/A
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	Х		
Was the ICV for all analytes within \pm 10% of the true value?	Х		

Method 350.1 ICV Criteria	WC_Alp 4		
Date of Initial Calibration Verification:	3/21/2020		0
	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?	Х		

Method 353.2 ICV Criteria	W	WC_Alp 2	
Date of Initial Calibration Verification:	3/	3/11/2020	
	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?	Х		

Method 351.2 ICV Criteria	WC_Astoria		
Date of Initial Calibration Verification:	3/16/2020		0
	Yes	No	N/A
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	Х		
Was the ICV for all analytes within $\pm 10\%$ of the true value?	Х		

Method 9060A ICV Criteria	W	WC_SHI3		
Date of Initial Calibration Verification:	3/	3/19/2020		
	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?	Х			

5.0 Continuing Calibration Verification (CCV)

Method 8330A CCV Criteria (Filename)	03	03190017_9		
Instrument:	CH	CHHPLC_X3		
Date of Calibration Verification:	3	3/19/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	Х			
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?	Х			

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Method 8330A CCV Criteria (Filename)	03	03190030_2		
Instrument:	CH	CHHPLC_X3		
Date of Calibration Verification:	3	3/19/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	Х			
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?	Х			

Method 8330A CCV Criteria (Filename)	03190043_5			
Instrument:	CH	CHHPLC_X3		
Date of Calibration Verification:	3/1	3/19-20/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	Х			
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?	Х			

Method 8330A CCV Criteria (Filename)	03	03190050_2		
Instrument:	CH	CHHPLC_X3		
Date of Calibration Verification:	3	3/20/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	Х			
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?	Х			
Was the CCV for all analytes within \pm 15% of the true value?	Х			

Method 8330A CCV Criteria (Filename)	03	03300024.D		
Instrument:	CHHP	CHHPLC_G2_LUNA		
Date of Calibration Verification:	3	3/31/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	Х			
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	Х			
Was the CCV for all analytes within \pm 15% of the true value?	Х			

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Method 8330A CCV Criteria (Filename)	03	03300035.D		
Instrument:	CHHP	CHHPLC_G2_LUNA		
Date of Calibration Verification:	3	3/31/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	Х			
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?	Х			

Method 8330A CCV Criteria (Filename)	03	03300046.D		
Instrument:	CHHPI	CHHPLC_G2_LUNA		
Date of Calibration Verification:	3	3/31/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	Х			
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	Х			
Was the CCV for all analytes within \pm 15% of the true value?	Х			

Method RSK-175 CCV Criteria (Filename)	0.	039F2401.D		
Instrument:		VGC_J		
Date of Calibration Verification:		3/11/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	Х			
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	Х			
Was the CCV for all analytes within $\pm 25\%$ of the true value?	Х			

Method RSK-175 CCV Criteria (Filename)	0:	056F4101.D		
Instrument:		VGC_J		
Date of Calibration Verification:		3/12/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	Х			
Was the CCV analyzed every 10 field samples and at the end of the analysis sequence?	Х			
Was the CCV for all analytes within $\pm 25\%$ of the true value?	Х			

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Method RSK-175 CCV Criteria (Filename)	0.	031F2701.D		
Instrument:		VGC_J		
Date of Calibration Verification:		3/12/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	Х			
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?	Х			

Method RSK-175 CCV Criteria (Filename)	04	048F4401.D		
Instrument:		VGC_J		
Date of Calibration Verification:		3/12/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	Х			
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?	Х			

Method RSK-175 CCV Criteria (Filename)	0	060F5601.D		
Instrument:		VGC_J		
Date of Calibration Verification:		3/12/2020		
	Yes	No	N/A	
Was the CCV analyzed daily before sample analysis?	Х			
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?	Х			

Method 9056A, Instrument: WC_IonChrom10, All CCVs on 3/18/2020	Yes	No
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	Х	
Were the CCVs for all analytes within $\pm 10\%$ of the true value?	X	

Method 9056A, Instrument: WC_IonChrom7, All CCVs on 3/23/2020	Yes	No
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	Х	
Were the CCVs for all analytes within $\pm 10\%$ of the true value?	Х	

Method 350.1, Instrument: WC_Alp 4, All CCVs on 3/20/2020	Yes	No
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	Х	

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Method 350.1, Instrument: WC_Alp 4, All CCVs on 3/20/2020	Yes	No
Were the CCVs for all analytes within $\pm 10\%$ of the true value?	Х	

Method 350.1, Instrument: WC_Alp 4, All CCVs on 3/21/2020		
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	Х	
Were the CCVs for all analytes within $\pm 10\%$ of the true value?	Х	

Method 353.2, Instrument: WC_Alp 2, All CCVs on 3/11/2020		
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	Х	
Were the CCVs for all analytes within $\pm 10\%$ of the true value?	Х	

Method 351.2, Instrument: WC_Astoria, All CCVs on 3/16/2020		
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?		
Were the CCVs for all analytes within $\pm 10\%$ of the true value?	Х	

Method 9060A, Instrument: WC_SHI3, All CCVs on 3/19/2020		
Was a CCV analyzed after every 10 field samples and at the end of the analysis sequence?	Х	
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?			
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)?	Х		
Were target analytes detected in method, trip or calibration blanks?	Х		

Blank ID	Parameter	Analyte	Concentration	LOQ	Units
MB 280-489087/13	Anions	Sulfate	1.34	5.0	mg/L

Analytical data were reported as nondetect or at concentrations greater than five times (5X) the associated blank concentration and did not require qualification.

7.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	Х		
Did all analytes meet sensitivity requirements?	Х		

Laboratory and SDG#: TADenver 280-134297 Date Verified: 4/17/2020 AECOM Chemist: Jared DeSadier 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

8.0 Additional Qualifications

Additional Qualification Criteria		No	N/A
Were common laboratory contaminants detected?		Х	
Was professional judgment used to qualify data (if yes, list below)?			

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
NW021-2	Explosives	HMX	144.3	J
G0077-2	Explosives	HMX	47.9	J
G0077-2	Explosives	RDX	40.5	J
G0086-2	Explosives	2,4,6-trinitrotoluene	43.9	J

9.0 Completeness

Completeness Criteria			N/A
Were any data rejected during the verification process?		Х	
Were any samples lost, broken, or in any other manner in not verified?		Х	
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?			