CASE NARRATIVE
Client: Sundance Consulting, Inc.
Project: Fort Wingate, New Mexico
Report Number: 280-76048-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Revision - 01/06/2015
The SVOC method reference was changed from 8270C to 8270D or 8270_DOD to be consistent throughout the report.

Sample Receipt
Two samples were received on 10/28/2015 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5ºC.

Please note the Caprolactam data are reported under separate cover (280-76048-2), as the laboratory does not hold DOD ELAP certification for this compound.

No other anomalies were encountered during sample receipt.

GC/MS Volatiles - 8260B
Samples TB-01-102015 (280-76048-1) and FW102015EQU001 (280-76048-2) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/05/2015 and 11/06/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

Methylene Chloride was detected in method blank MB 280-302589/6 at a level that was less than one half the reporting limit; therefore, corrective action was deemed unnecessary. The value should be considered an estimate, and has been flagged “J” in accordance with the DOD QSM.

1,2,3-Trichlorobenzene and Naphthalene were detected in method blank MB 280-302824/6 at levels that were less than one half the reporting limits; therefore, corrective action was deemed unnecessary. The values should be considered estimates, and have been flagged “J” in accordance with the DOD QSM.

MS/MSD analyses for analytical batches 280-302589 and 280-302824 were not requested.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semivolatiles - 8270D
Sample FW102015EQU001 (280-76048-2) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The sample was prepared on 10/29/2015 and analyzed on 11/14/2015.

Please note the Caprolactam data are reported under separate cover (280-76048-2), as the laboratory does not hold DOD ELAP certification for this compound.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

Benzyl alcohol was detected in method blank MB 280-301766/1-A at a level that was less than one half the reporting limit; therefore, corrective action was deemed unnecessary. The value should be considered an estimate, and has been flagged “J” in accordance with the DOD QSM.

MS/MSD analyses for prep batch 280-301766 were not requested.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Gasoline Range Organics - 8015C
Sample FW102015EQU001 (280-76048-2) was analyzed for gasoline range organics (GRO) in accordance with 8015C GRO. The sample was analyzed on 11/04/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

MS/MSD analyses for analytical batch 280-302516 were not requested.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Diesel Range Organics - 8015C
Sample FW102015EQU001 (280-76048-2) was analyzed for Diesel Range Organics (DRO) in accordance with 8015C DRO. The sample was prepared on 11/02/2015 and analyzed on 11/04/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

MS/MSD analyses for prep batch 280-302169 were not requested.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organochlorine Pesticides - 8081A
Sample FW102015EQU001 (280-76048-2) was analyzed for Organochlorine Pesticides (GC) in accordance with SW846 8081A. The sample was prepared on 11/02/2015 and analyzed on 11/06/2015.

TestAmerica Denver's practice for the reporting of dual column data in packages requiring forms and/or raw data is to report the surrogates from both columns, and the preferred result for any given target analyte from the analyst selected column. The preferred results for target analytes and surrogates are reported as PRIMARY on the Sample Datasheets.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

The standard used for Toxaphene CCV 280-302889/36 expired at midnight on 11/06/2015. The analysis was set up on 11/06/2015 and the affected CCVs are well within control limits. The associated samples are ND for Toxaphene.

MS/MSD analyses for prep batch 280-302200 were not requested.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Explosives - 8330B
Sample FW102015EQU001 (280-76048-2) was analyzed for Nitroaromatics and Nitramines (HPLC) in accordance with SW846 8330B. The sample was prepared on 10/29/2015 and analyzed on 10/31/2015.

TestAmerica Denver's practice for the reporting of dual column data in packages requiring forms and/or raw data is to report the surrogates from both columns, and the preferred result for any given target analyte from the analyst selected column. The preferred results for target analytes and surrogates are reported as PRIMARY on the Sample Datasheets.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

The following sample was decanted prior to preparation: FW102015EQU001 (280-76048-2). In addition, a portion of this sample was used for analysis, rather than testing the entire sample amount in the original container, due to the sample container (1L) was not the appropriate size (500mL). As such, the required solvent rinse of the original container could not be performed.

MS/MSD analyses for prep batch 280-301674 were not requested.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Perchlorate - 6860
Sample FW102015EQU001 (280-76048-2) was analyzed for Perchlorate in accordance with 6860. The sample was analyzed on 11/18/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

The internal standard failed high in the Method Blank and LCS for analytical batch 280-304675. The internal standard failures were due to matrix carry over. Perchlorate was in control for the Method Blank and LCS. The associated sample is non-detect for Perchlorate and was in control for internal standard.

MS/MSD analyses for analytical batch 280-304675 were not requested.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Total Metals - 6010C
Sample FW102015EQU001 (280-76048-2) was analyzed for Total Metals (ICP) in accordance with 6010C. The sample was prepared on 10/30/2015 and analyzed on 10/30/2015 and 11/02/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

Calcium was detected in method blank MB 280-301751/1-A at a level that was less than one half the reporting limit; therefore, corrective action was deemed unnecessary. The value should be considered an estimate, and has been flagged "J" in accordance with the DOD QSM.

MS/MSD analyses for prep batch 280-301751 were not requested.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Dissolved Metals - 6010C
Sample FW102015EQU001 (280-76048-2) was analyzed for Dissolved Metals (ICP) in accordance with SW 846 6010C. The sample was prepared on 11/11/2015 and analyzed on 11/20/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

Sodium was detected in method blank MB 280-303380/1-A at a level that was less than one half the reporting limit; therefore, corrective action was deemed unnecessary. The value should be considered an estimate, and has been flagged "J" in accordance with the DOD QSM.

MS/MSD analyses for prep batch 280-303380 were not requested.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Total Metals - 6020A
Sample FW102015EQU001 (280-76048-2) was analyzed for total metals (ICPMS) in accordance with SW846 6020A. The sample was prepared on 10/30/2015 and analyzed on 11/05/2015 and 11/06/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

Cobalt, Manganese, Nickel, Thallium and Barium were detected in method blank MB 280-301948/1-A at levels that were less than one half the reporting limits; therefore, corrective action was deemed unnecessary. The values should be considered estimates, and have been flagged "J" in accordance with the DOD QSM.

MS/MSD analyses for prep batch 280-301948 were not requested.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Dissolved Metals - 6020A
Sample FW102015EQU001 (280-76048-2) was analyzed for dissolved metals (ICPMS) in accordance with SW 846 6020A. The sample was prepared on 11/05/2015 and analyzed on 11/10/2015 and 11/11/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

MS/MSD analyses for prep batch 280-302620 were not requested.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Total Mercury - 7470A
Sample FW102015EQU001 (280-76048-2) was analyzed for mercury in accordance with SW 846 7470A. The sample was prepared and analyzed on 11/11/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

MS/MSD analyses for prep batch 280-303181 were not requested.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Dissolved Mercury - 7470A
Sample FW102015EQU001 (280-76048-2) was analyzed for dissolved mercury in accordance with SW 846 7470A. The sample was prepared and analyzed on 11/11/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Nitrate & Nitrite - 9056
Sample FW102015EQU001 (280-76048-2) was analyzed for anions by ion chromatography in accordance with SW846 9056. The sample was analyzed on 10/28/2015.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

MS/MSD analyses for analytical batch 280-301438 were not requested.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field QC Assignments and Associated Samples

EDD File Name: 280-76048-1
eQapp Name: FtWingate_Primary_120405

	Associated Samples	Sample Collection Date
Field QC FW102015EQU001 **QC Type:** EB		
	MW01102015	10/28/2015 12:35:00 PM
	MW02102015	10/28/2015 11:28:00 AM
	MW22S102015	10/28/2015 9:03:00 AM
	TMW16102015	10/28/2015 10:40:00 AM
	TMW19102015	10/28/2015 11:35:00 AM
	TMW29102015	10/28/2015 9:48:00 AM
	TMW36102015	10/28/2015 1:50:00 PM
	TMW37102015	10/28/2015 12:41:00 PM
	TMW40S102015	10/28/2015 10:35:00 AM
Field QC TB-01-102015 **QC Type:** TB		
	FW102015EQU001	10/27/2015 9:40:00 AM

Data Qualifier Summary

Lab Reporting Batch ID: 280-76048-1 **Laboratory: TA DEN**

EDD Filename: 280-76048-1 **eQAPP Name: FtWingate_Primary_120405**

Method Category: METALS
Method: 6010C **Matrix:** AQ

Sample ID: FW102015EQU001 **Collected:** 10/27/2015 9:40:00 AM **Analysis Type:** RES/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	150	J	350	LOD	5000	LOQ	ug/L	U	Mb

Sample ID: FW102015EQU001 **Collected:** 10/27/2015 9:40:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	43	J	140	LOD	1000	LOQ	ug/L	U	Mb

Method Category: METALS
Method: 6020A **Matrix:** AQ

Sample ID: FW102015EQU001 **Collected:** 10/27/2015 9:40:00 AM **Analysis Type:** RE2/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	0.51	J	0.95	LOD	3.0	LOQ	ug/L	J	RI

Sample ID: FW102015EQU001 **Collected:** 10/27/2015 9:40:00 AM **Analysis Type:** RE3/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	0.73	J	0.95	LOD	3.0	LOQ	ug/L	U	Mb

Sample ID: FW102015EQU001 **Collected:** 10/27/2015 9:40:00 AM **Analysis Type:** RES/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	0.61	J	0.95	LOD	3.5	LOQ	ug/L	J	RI

Sample ID: FW102015EQU001 **Collected:** 10/27/2015 9:40:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.82	J	1.0	LOD	6.0	LOQ	ug/L	J	RI
COBALT	0.12	J	0.20	LOD	1.0	LOQ	ug/L	U	Mb
LEAD	0.20	J	0.70	LOD	3.0	LOQ	ug/L	J	RI
MANGANESE	2.1	J	0.95	LOD	3.5	LOQ	ug/L	U	Mb
SILVER	0.076	J	0.10	LOD	5.0	LOQ	ug/L	J	RI
THALLIUM	0.46	J	0.20	LOD	1.0	LOQ	ug/L	U	Mb

* denotes a non-reportable result

Project Name and Number: 102012 - FWDA 102012 GW

Data Qualifier Summary

Lab Reporting Batch ID: 280-76048-1 **Laboratory: TA DEN**

EDD Filename: 280-76048-1 **eQAPP Name: FtWingate_Primary_120405**

Method Category: SVOA
Method: 8015C DRO **Matrix:** AQ

Sample ID: FW102015EQU001 **Collected:** 10/27/2015 9:40:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIESEL RANGE ORGANICS	0.10	J M	0.12	LOD	0.24	LOQ	mg/L	J	RI

Method Category: SVOA
Method: 8270D **Matrix:** AQ

Sample ID: FW102015EQU001 **Collected:** 10/27/2015 9:40:00 AM **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZYL ALCOHOL	0.24	J	0.50	LOD	25	LOQ	ug/L	U	Mb
PHENANTHRENE	0.49	J	1.0	LOD	10	LOQ	ug/L	J	RI

Method Category: VOA
Method: 8260B **Matrix:** AQ

Sample ID: FW102015EQU001 **Collected:** 10/27/2015 9:40:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	5.0	J	6.4	LOD	10	LOQ	ug/L	J	RI
BROMODICHLOROMETHANE	0.30	J	0.40	LOD	1.0	LOQ	ug/L	J	RI
CHLOROFORM	0.37	J	0.40	LOD	1.0	LOQ	ug/L	J	RI
METHYLENE CHLORIDE	2.2	J	0.80	LOD	5.0	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: 102012 - FWDA 102012 GW

Data Qualifier Summary

Lab Reporting Batch ID: 280-76048-1 **Laboratory: TA DEN**

EDD Filename: 280-76048-1 **eQAPP Name: FtWingate_Primary_120405**

Reason Code Legend

Reason Code	*Description*
Mb	Method Blank Contamination
Rl	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 102012 - FWDA 102012 GW

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA DEN**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method		Collection Date	Validation Code
Lab Reporting Batch: 280-76048-1							
Method: 6010C							
FW102015EQU001	280-76048-2	AQ	EB	3005A		10/27/2015 9:40:00 AM	S2AVE
FW102015EQU001	280-76048-2	AQ	EB	3010A		10/27/2015 9:40:00 AM	S2AVE
Method: 6020A							
FW102015EQU001	280-76048-2	AQ	EB	3005A		10/27/2015 9:40:00 AM	S2AVE
FW102015EQU001	280-76048-2	AQ	EB	3020A		10/27/2015 9:40:00 AM	S2AVE
Method: 6860							
FW102015EQU001	280-76048-2	AQ	EB	METHOD		10/27/2015 9:40:00 AM	S2AVE
Method: 7470A							
FW102015EQU001	280-76048-2	AQ	EB	7470A		10/27/2015 9:40:00 AM	S2AVE
FW102015EQU001MS	280-76048-2MS	AQ	MS	METHOD		10/27/2015 9:40:00 AM	S2AVE
FW102015EQU001MSD	280-76048-2MSD	AQ	MSD	METHOD		10/27/2015 9:40:00 AM	S2AVE
Method: 8015C DRO							
FW102015EQU001	280-76048-2	AQ	EB	3510C		10/27/2015 9:40:00 AM	S2AVE
Method: 8015C GRO							
FW102015EQU001	280-76048-2	AQ	EB	METHOD		10/27/2015 9:40:00 AM	S2AVE
Method: 8081A							
FW102015EQU001	280-76048-2	AQ	EB	3510C		10/27/2015 9:40:00 AM	S2AVE
Method: 8260B							
FW102015EQU001	280-76048-2	AQ	EB		5030	10/27/2015 9:40:00 AM	S2AVE
TB-01-102015	280-76048-1	AQ	TB		5030	10/27/2015 9:00:00 AM	S2AVE
Method: 8270D							
FW102015EQU001	280-76048-2	AQ	EB	3520C		10/27/2015 9:40:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA DEN**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Method: 8330B						
FW102015EQU001	280-76048-2	AQ	EB	3535	10/27/2015 9:40:00 AM	S2AVE
Method: 9056						
FW102015EQU001	280-76048-2	AQ	EB	METHOD	10/27/2015 9:40:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: TA DEN**

Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code

Validation Label Legend

Label Code	Label Decription	EPA Level
S1VE	Stage_1_Validation_Electronic	N/A
S1VM	Stage_1_Validation_Manual	N/A
S1VEM	Stage_1_Validation_Electronic_and_Manual	N/A
S2AVE	Stage_2A_Validation_Electronic	Level 3 w/o calibration
S2AVM	Stage_2A_Validation_Manual	Level 3 w/o calibration
S2AVEM	Stage_2A_Validation_Electronic_and_Manual	Level 3 w/o calibration
S2BVE	Stage_2B_Validation_Electronic	Level 3 with calibration
S2BVM	Stage_2B_Validation_Manual	Level 3 with calibration
S2BVEM	Stage_2B_Validation_Electronic_and_Manual	Level 3 with calibration
S3VE	Stage_3_Validation_Electronic	Level 4
S3VM	Stage_3_Validation_Manual	Level 4
S3VEM	Stage_3_Validation_Electronic_and_Manual	Level 4
S4VE	Stage_4_Validation_Electronic	Level 4
S4VM	Stage_4_Validation_Manual	Level 4
S4VEM	Stage_4_Validation_Electronic_and_Manual	Level 4
NV	Not_Validated	N/A

Data Review Summary

Lab Reporting Batch ID: 280-76048-1
Laboratory: TA DEN
EDD Filename: 280-76048-1
eQAPP Name: FtWingate_Primary_120405

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	A
Matrix Spike/Matrix Spike Duplicates	A
Laboratory Duplicates	N
Laboratory Replicates	N
Laboratory Control Samples	A
Compound Quantitation	SR
Field Duplicates	N
Field Triplicates	N
Field Blanks	A

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: 280-76048-1 **Laboratory: TA DEN**

EDD Filename: 280-76114-1 **eQAPP Name: FtWingate_Primary_120405**

Method: **6020A**
Matrix: **AQ**

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
FW102015EQU001(RE2/DIS)	10/27/2015 9:40:00 AM	BARIUM	0.51 ug/L	MW01102015 MW02102015 MW22S102015 TMW16102015 TMW19102015 TMW29102015 TMW36102015 TMW37102015 TMW40S102015
FW102015EQU001(RE3/TOT)	10/27/2015 9:40:00 AM	BARIUM	0.73 ug/L	MW01102015 MW02102015 MW22S102015 TMW16102015 TMW19102015 TMW29102015 TMW36102015 TMW37102015 TMW40S102015
FW102015EQU001(RES/DIS)	10/27/2015 9:40:00 AM	MANGANESE	0.61 ug/L	MW01102015 MW02102015 MW22S102015 TMW16102015 TMW19102015 TMW29102015 TMW36102015 TMW37102015 TMW40S102015
FW102015EQU001(RES/TOT)	10/27/2015 9:40:00 AM	ANTIMONY COBALT LEAD MANGANESE SILVER THALLIUM	0.82 ug/L 0.12 ug/L 0.2 ug/L 2.1 ug/L 0.076 ug/L 0.46 ug/L	MW01102015 MW02102015 MW22S102015 TMW16102015 TMW19102015 TMW29102015 TMW36102015 TMW37102015 TMW40S102015

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
TMW16102015(RES/TOT)	LEAD	1.0 ug/L	1.0U ug/L
TMW16102015(RES/TOT)	THALLIUM	0.27 ug/L	0.27U ug/L
TMW19102015(RES/TOT)	COBALT	0.27 ug/L	0.27U ug/L
TMW19102015(RES/TOT)	LEAD	0.42 ug/L	0.42U ug/L
TMW19102015(RES/TOT)	SILVER	0.14 ug/L	0.14U ug/L
TMW19102015(RES/TOT)	THALLIUM	0.14 ug/L	0.14U ug/L
TMW29102015(RES/TOT)	THALLIUM	0.051 ug/L	0.051U ug/L
TMW36102015(RES/TOT)	COBALT	0.35 ug/L	0.35U ug/L
TMW36102015(RES/TOT)	LEAD	0.91 ug/L	0.91U ug/L
TMW36102015(RES/TOT)	SILVER	0.28 ug/L	0.28U ug/L
TMW36102015(RES/TOT)	THALLIUM	0.063 ug/L	0.063U ug/L
TMW37102015(RES/TOT)	COBALT	0.51 ug/L	0.51U ug/L
TMW37102015(RES/TOT)	THALLIUM	0.054 ug/L	0.054U ug/L
TMW40S102015(RES/TOT)	SILVER	0.33 ug/L	0.33U ug/L
TMW40S102015(RES/TOT)	THALLIUM	0.23 ug/L	0.23U ug/L

Project Name and Number: 102012 - FWDA 102012 GW

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: 280-76048-1 **Laboratory: TA DEN**

EDD Filename: 280-76114-1 **eQAPP Name: FtWingate_Primary_120405**

Method: **8015C DRO**
Matrix: **AQ**

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
FW102015EQU001(RES)	10/27/2015 9:40:00 AM	DIESEL RANGE ORGANICS	0.1 mg/L	MW01102015 MW02102015 MW22S102015 TMW16102015 TMW19102015 TMW29102015 TMW36102015 TMW37102015 TMW40S102015

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
MW01102015(RES)	DIESEL RANGE ORGANICS	0.12 mg/L	0.12U mg/L
MW02102015(RES)	DIESEL RANGE ORGANICS	0.48 mg/L	0.48U mg/L

Method: **8260B**
Matrix: **AQ**

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
FW102015EQU001(RES)	10/27/2015 9:40:00 AM	ACETONE BROMODICHLOROMETHANE CHLOROFORM METHYLENE CHLORIDE	5 ug/L 0.3 ug/L 0.37 ug/L 2.2 ug/L	MW01102015 MW02102015 MW22S102015 TMW16102015 TMW19102015 TMW29102015 TMW36102015 TMW37102015 TMW40S102015

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
TMW40S102015(RES)	CHLOROFORM	0.41 ug/L	0.41U ug/L

Method Blank Outlier Report

Lab Reporting Batch ID: 280-76048-1 **Laboratory: TA DEN**

EDD Filename: 280-76048-1 **eQAPP Name: FtWingate_Primary_120405**

Method: **6010C**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB 280-301751/1-A	10/30/2015 4:55:00 PM	CALCIUM	54.0 ug/L	FW102015EQU001
MB 280-303380/1-A	11/20/2015 3:45:00 AM	SODIUM	112 ug/L	FW102015EQU001

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
FW102015EQU001(RES/DIS)	SODIUM	150 ug/L	150U ug/L
FW102015EQU001(RES/TOT)	CALCIUM	43 ug/L	43U ug/L

Method: **6020A**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB 280-301948/1-A	11/5/2015 12:16:00 PM	BARIUM COBALT MANGANESE NICKEL THALLIUM	0.496 ug/L 0.0710 ug/L 0.602 ug/L 0.590 ug/L 0.293 ug/L	FW102015EQU001

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
FW102015EQU001(RE3/TOT)	BARIUM	0.73 ug/L	0.73U ug/L
FW102015EQU001(RES/TOT)	COBALT	0.12 ug/L	0.12U ug/L
FW102015EQU001(RES/TOT)	MANGANESE	2.1 ug/L	2.1U ug/L
FW102015EQU001(RES/TOT)	THALLIUM	0.46 ug/L	0.46U ug/L

Method: **8260B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB 280-302589/6	11/4/2015 11:41:00 PM	METHYLENE CHLORIDE	0.347 ug/L	TB-01-102015
MB 280-302824/6	11/6/2015 7:40:00 AM	1,2,3-TRICHLOROBENZENE NAPHTHALENE	0.236 ug/L 0.375 ug/L	FW102015EQU001

Method: **8270D**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB 280-301766/1-A	11/14/2015 6:17:00 PM	BENZYL ALCOHOL	0.382 ug/L	FW102015EQU001

Method Blank Outlier Report

Lab Reporting Batch ID: 280-76048-1 **Laboratory: TA DEN**

EDD Filename: 280-76048-1 **eQAPP Name: FtWingate_Primary_120405**

Method: **8270D**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
FW102015EQU001(RES)	BENZYL ALCOHOL	0.24 ug/L	0.24U ug/L

Reporting Limit Outliers

Lab Reporting Batch ID: 280-76048-1 **Laboratory: TA DEN**

EDD Filename: 280-76048-1 **eQAPP Name: FtWingate_Primary_120405**

Method: 6010C
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
FW102015EQU001	CALCIUM	J	43	1000	LOQ	ug/L	J (all detects)
	SODIUM	J	150	5000	LOQ	ug/L	

Method: 6020A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
FW102015EQU001	ANTIMONY	J	0.82	6.0	LOQ	ug/L	J (all detects)
	BARIUM	J	0.51	3.0	LOQ	ug/L	
	COBALT	J	0.12	1.0	LOQ	ug/L	
	LEAD	J	0.20	3.0	LOQ	ug/L	
	MANGANESE	J	0.61	3.5	LOQ	ug/L	
	SILVER	J	0.076	5.0	LOQ	ug/L	
	THALLIUM	J	0.46	1.0	LOQ	ug/L	

Method: 8015C DRO
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
FW102015EQU001	DIESEL RANGE ORGANICS	J M	0.10	0.24	LOQ	mg/L	J (all detects)

Method: 8260B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
FW102015EQU001	ACETONE	J	5.0	10	LOQ	ug/L	J (all detects)
	BROMODICHLOROMETHANE	J	0.30	1.0	LOQ	ug/L	
	CHLOROFORM	J	0.37	1.0	LOQ	ug/L	
	METHYLENE CHLORIDE	J	2.2	5.0	LOQ	ug/L	

Method: 8270D
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
FW102015EQU001	BENZYL ALCOHOL	J	0.24	25	LOQ	ug/L	J (all detects)
	PHENANTHRENE	J	0.49	10	LOQ	ug/L	