CASE NARRATIVE
Client: Sundance Consulting, Inc.
Project: Fort Wingate, New Mexico
Report Number: 280-76114-1

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
Eleven samples were received on 10/29/2015 9:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 0.5ºC, 1.4ºC, 1.7ºC, 1.8ºC, 2.1ºC and 3.3ºC.

One of three hydrochloric acid preserved VOA vials received for sample TMW37102015 (280-76114-5) contained a bubble larger than 6mm in diameter. Sufficient unbiased sample volume remains to perform the requested VOC analysis per the chain of custody. The client was notified on 10/30/2015.

Sample TMW36102015 (280-76114-6) was received with Perchlorate volume with less than on-third headspace in the sample container. For water samples, headspace should be about one-third of the container in order to reduce potential anaerobic biodegradation. The client was notified on 10/30/2015.

Please note the Caprolactam data are reported under separate cover (280-76114-2), 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-02-102015 (280-76114-1), TB-03-102015 (280-76114-2), TMW16102015 (280-76114-3), TMW19102015 (280-76114-4), TMW37102015 (280-76114-5), TMW36102015 (280-76114-6), MW22S102015 (280-76114-7), TMW29102015 (280-76114-8), TMW40S102015 (280-76114-9), MW02102015 (280-76114-10) and MW01102015 (280-76114-11) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/06/2015.

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

MS/MSD analyses for analytical batch 280-302828 were not requested.

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

GC/MS Semivolatiles - 8270D
Samples TMW16102015 (280-76114-3), TMW19102015 (280-76114-4), TMW37102015 (280-76114-5) and TMW36102015 (280-76114-6) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 10/29/2015 and analyzed on 11/14/2015.

Please note the Caprolactam data are reported under separate cover (280-76114-2), 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.

Surrogate Terphenyl-d14 was recovered below the QC control limits in sample TMW36102015 (280-76114-6). This is an indicator that data may be biased low. Upon re-extraction past hold time and reanalysis, surrogate recoveries were 100% in control. As the out of hold results confirm the in hold results, the in hold data have been reported. The associated data have been flagged “Q” in accordance with the DOD QSM.

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
Samples MW22S102015 (280-76114-7), MW02102015 (280-76114-10) and MW01102015 (280-76114-11) were analyzed for gasoline range organics (GRO) in accordance with 8015C GRO. The samples were analyzed on 11/10/2015.

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

MS/MSD analyses for analytical batch 280-303330 were not requested.

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

Diesel Range Organics - 8015C
Samples MW02102015 (280-76114-10) and MW01102015 (280-76114-11) were analyzed for Diesel Range Organics (DRO) in accordance with 8015C DRO. The samples were prepared on 11/02/2015 and analyzed on 11/05/2015.

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
Samples TMW37102015 (280-76114-5), TMW36102015 (280-76114-6) and MW01102015 (280-76114-11) were analyzed for Organochlorine Pesticides (GC) in accordance with SW846 8081A. The samples were prepared on 11/02/2015 and analyzed on 11/07/2015.

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.

Surrogate DCB Decachlorobiphenyl was recovered below the QC control limits in sample MW01102015 (280-76114-11). This anomaly is due to obvious matrix interference; therefore, corrective action is deemed unnecessary. The associated data have been flagged "Q" in accordance with the DOD QSM.

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
Samples TMW16102015 (280-76114-3), TMW19102015 (280-76114-4), TMW37102015 (280-76114-5), TMW36102015 (280-76114-6), TMW29102015 (280-76114-8), MW02102015 (280-76114-10) and MW01102015 (280-76114-11) were analyzed for Nitroaromatics and Nitramines (HPLC) in accordance with SW846 8330B. The samples were prepared on 11/03/2015 and analyzed on 11/05/2015 and 11/07/2015.

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.

The following samples had visible sediment and were filtered prior to surrogating and loading on the SPE cartridge: TMW16102015 (280-76114-3), TMW37102015 (280-76114-5), TMW29102015 (280-76114-8), MW02102015 (280-76114-10) and MW01102015 (280-76114-11).

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

Compounds eluted outside the retention time window on the confirmation column for samples TMW37102015 (280-76114-5), TMW36102015 (280-76114-6), TMW29102015 (280-76114-8), MW02102015 (280-76114-10), MW01102015 (280-76114-11), (CCV 280-302977/18), (CCV 280-302977/26), (CCV 280-302977/7) and (MB 280-302319/1-A). These retention time shifts were taken into account when reviewing the samples for target compounds. A significant retention time shift was noted for the surrogate compound for the affected samples on the confirmation column. Therefore, the retention times for the target analytes were shifted the same direction and magnitude as observed for the surrogate and the samples evaluated for target compounds accordingly.

Surrogate 1,2-Dinitrobenzene was recovered above the QC control limits on the confirmation column in sample TMW37102015 (280-76114-5). This anomaly is due to obvious matrix interference; therefore, corrective action is deemed unnecessary. The associated data have been flagged “Q” in accordance with the DOD QSM.

2-Amino-4,6-dinitrotoluene and o-Nitrotoluene were detected in method blank MB 280-302319/1-A at levels that were less than one half the reporting limits on the confirmation column; 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 280-302319 were not requested.

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

Perchlorate - 6860

Samples TMW16102015 (280-76114-3), TMW19102015 (280-76114-4), TMW37102015 (280-76114-5), TMW36102015 (280-76114-6), TMW29102015 (280-76114-8), MW02102015 (280-76114-10) and MW01102015 (280-76114-11) were analyzed for Perchlorate in accordance with 6860. The samples were analyzed on 11/18/2015, 11/20/2015 and 11/25/2015.

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

MS/MSD analyses for analytical batches 280-304701 and 280-305014 were not requested.

The interference check standard (INF) associated with analytical batch 280-305014 was outside control limits for Perchlorate. As no detectable concentration is present in the associated sample greater than the reporting limit, corrective action is deemed unnecessary. The associated data have been flagged “Q” in accordance with the DOD QSM.

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

Total Metals - 6010C

Samples TMW16102015 (280-76114-3), TMW19102015 (280-76114-4), TMW37102015 (280-76114-5), TMW36102015 (280-76114-6), TMW29102015 (280-76114-8), TMW40S102015 (280-76114-9), MW02102015 (280-76114-10) and MW01102015 (280-76114-11) were analyzed for Total Metals (ICP) in accordance with 6010C. The samples were prepared on 11/04/2015 and 11/17/2015 and analyzed on 11/14/2015 and 11/18/2015.

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

Calcium and Magnesium were detected in method blank MB 280-301937/1-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.

The MS/MSD associated with prep batch 280-301937 was performed on sample TMW19102015 (280-76114-4). The MS/MSD exhibited spike compound recoveries outside the control limits for Aluminum. In addition, the MS/MSD spike compound recoveries and RPD data could not be reliably calculated for Sodium because the sample concentration was greater than four times the spike amounts. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary. The associated Aluminum data in the parent sample has been flagged “J” in accordance with the DOD QSM.

The post digestion spike (PDS) and serial dilution (SD) associated with prep batch 280-301937 was performed on sample TMW19102015 (280-76114-4). The PDS and SD exhibited percent recoveries outside the control limits for Zinc. The associated data in the parent sample has been flagged “J” in accordance with the DOD QSM.

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

Dissolved Metals - 6010C

Samples TMW16102015 (280-76114-3), TMW19102015 (280-76114-4), TMW37102015 (280-76114-5), TMW36102015 (280-76114-6), TMW29102015 (280-76114-8), TMW40S102015 (280-76114-9), MW02102015 (280-76114-10) and MW01102015 (280-76114-11) were analyzed for Dissolved Metals (ICP) in accordance with SW 846 6010C. The samples were prepared on 11/10/2015 and analyzed on 11/13/2015 and 11/17/2015.

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

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to high concentrations of target analytes, samples TMW19102015 (280-76114-4), TMW37102015 (280-76114-5), TMW36102015 (280-76114-6), TMW29102015 (280-76114-8), TMW40S102015 (280-76114-9) and MW01102015 (280-76114-11) had to be analyzed at dilutions. The reporting limits and method detection limits have been adjusted relative to the dilutions required.

MS/MSD analyses for prep batch 280-302968 were not requested.

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

Total Metals - 6020A

Samples TMW16102015 (280-76114-3), TMW19102015 (280-76114-4), TMW37102015 (280-76114-5), TMW36102015 (280-76114-6), TMW29102015 (280-76114-8), TMW40S102015 (280-76114-9), MW02102015 (280-76114-10) and MW01102015 (280-76114-11) were analyzed for total metals (ICPMS) in accordance with SW846 6020A. The samples were 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.

After midnight the CCV in the laboratory’s LIM system indicates it is expired. The laboratory makes our standards daily and that requirement was met; therefore, the standard was not truly expired. Affected samples are TMW16102015 (280-76114-3), TMW16102015 (280-76114-3 MS), TMW16102015 (280-76114-3 MSD), TMW16102015 (280-76114-3 PDS), TMW16102015 (280-76114-3 SD), (CCB 280-302962/132), (CCB 280-302962/145), (CCB 280-302962/73), (CCV 280-302962/131), (CCV 280-302962/144), (CCV 280-302962/72), (CCVL 280-302962/133), (CCVL 280-302962/146), (CCVL 280-302962/74), (IC 280-302962/71), (ICSA 280-302962/75) and (ICSAB 280-302962/76).

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

Dissolved Metals - 6020A

Samples TMW16102015 (280-76114-3), TMW19102015 (280-76114-4), TMW37102015 (280-76114-5), TMW36102015 (280-76114-6), TMW29102015 (280-76114-8), TMW40S102015 (280-76114-9), MW02102015 (280-76114-10) and MW01102015 (280-76114-11) were analyzed for dissolved metals (ICPMS) in accordance with SW 846 6020A. The samples were 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

Samples TMW16102015 (280-76114-3), TMW19102015 (280-76114-4), TMW37102015 (280-76114-5), TMW36102015 (280-76114-6), TMW29102015 (280-76114-8), TMW40S102015 (280-76114-9), MW02102015 (280-76114-10) and MW01102015 (280-76114-11) were analyzed for mercury in accordance with SW 846 7470A. The samples were prepared and analyzed on 11/16/2015.

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

The LCS associated with prep batch 280-303832 exhibited a percent recovery above the QC control limits for Mercury. As no detectable concentrations are present in the associated samples greater than the LOD, corrective action is deemed unnecessary. The associated data have been flagged “Q” in accordance with the DOD QSM.

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

Dissolved Mercury - 7470A

Samples TMW16102015 (280-76114-3), TMW19102015 (280-76114-4), TMW37102015 (280-76114-5), TMW36102015 (280-76114-6), TMW29102015 (280-76114-8), TMW40S102015 (280-76114-9), MW02102015 (280-76114-10) and MW01102015 (280-76114-11) were analyzed for dissolved mercury in accordance with SW 846 7470A. The samples were 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 280-302912 were not requested.

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

Nitrate & Nitrite - 9056

Samples TMW37102015 (280-76114-5), TMW36102015 (280-76114-6), MW22S102015 (280-76114-7), TMW29102015 (280-76114-8), TMW40S102015 (280-76114-9), MW02102015 (280-76114-10) and MW01102015 (280-76114-11) were analyzed for anions by ion chromatography in accordance with SW 846 9056. The samples were analyzed on 10/29/2015 and 10/30/2015.

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

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to high concentrations of target analytes and/or matrix interference, samples MW22S102015 (280-76114-7), TMW40S102015 (280-76114-9) and MW01102015 (280-76114-11) had to be analyzed at dilutions. The reporting limits and method detection limits have been adjusted relative to the dilutions required.

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: 280-76114-1
eQapp Name: FtWingate_Primary_120405

	Associated Samples	Sample Collection Date
Field QC Sample: TB-02-102015 **QC Type:** TB		
	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 Sample: TB-03-102015 **QC Type:** TB		
	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

History of Manual Changes to Automated Data Review Qualifiers

Changed by: Doug Scott

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: MW01102015								
DIESEL RANGE ORGANICS	8015C DRO	RES	0.12	mg/L	Equipment Blank Contamination		U	1/11/2016 10:06
Reason for change: EB contamination								
Field Sample ID: MW02102015								
DIESEL RANGE ORGANICS	8015C DRO	RES	0.48	mg/L	Equipment Blank Contamination		U	1/11/2016 10:06
Reason for change: EB contamination								
Field Sample ID: TMW16102015								
COBALT	6020A	RES/TOT	0.72	ug/L	Equipment Blank Contamination		U	1/11/2016 10:02
Reason for change: EB contamination								
LEAD	6020A	RES/TOT	1.0	ug/L	Equipment Blank Contamination		U	1/11/2016 10:01
Reason for change: EB contamination								
THALLIUM	6020A	RES/TOT	0.27	ug/L	Equipment Blank Contamination		U	1/11/2016 10:01
Reason for change: EB contamination								
Field Sample ID: TMW19102015								
LEAD	6020A	RES/TOT	0.42	ug/L	Equipment Blank Contamination		U	1/11/2016 10:02
Reason for change: EB contamination								
SILVER	6020A	RES/TOT	0.14	ug/L	Equipment Blank Contamination		U	1/11/2016 10:02
Reason for change: EB contamination								

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: TMW19102015								
THALLIUM	6020A	RES/TOT	0.14	ug/L	Equipment Blank Contamination		U	1/11/2016 10:03
Reason for change:	EB contamination							
Field Sample ID: TMW29102015								
THALLIUM	6020A	RES/TOT	0.051	ug/L	Equipment Blank Contamination		U	1/11/2016 10:03
Reason for change:	EB contamination							
Field Sample ID: TMW36102015								
COBALT	6020A	RES/TOT	0.35	ug/L	Equipment Blank Contamination		U	1/11/2016 10:04
Reason for change:	EB contamination							
LEAD	6020A	RES/TOT	0.91	ug/L	Equipment Blank Contamination		U	1/11/2016 10:04
Reason for change:	EB contamination							
SILVER	6020A	RES/TOT	0.28	ug/L	Equipment Blank Contamination		U	1/11/2016 10:04
Reason for change:	EB contamination							
THALLIUM	6020A	RES/TOT	0.063	ug/L	Equipment Blank Contamination		U	1/11/2016 10:04
Reason for change:	EB contamination							
Field Sample ID: TMW37102015								
COBALT	6020A	RES/TOT	0.51	ug/L	Equipment Blank Contamination		U	1/11/2016 10:05
Reason for change:	EB contamination							
THALLIUM	6020A	RES/TOT	0.054	ug/L	Equipment Blank Contamination		U	1/11/2016 10:05
Reason for change:	EB contamination							

Analyte	Method	Analysis Type	Result	Unit	Reason Code	Original Value	New Value	Edit Time
Field Sample ID: TMW40S102015								
CHLOROFORM	8260B	RES	0.41	ug/L	Equipment Blank Contamination		U	1/11/2016 10:07
Reason for change:	EB contamination							
SILVER	6020A	RES/TOT	0.33	ug/L	Equipment Blank Contamination		U	1/11/2016 10:05
Reason for change:	EB contamination							
THALLIUM	6020A	RES/TOT	0.23	ug/L	Equipment Blank Contamination		U	1/11/2016 10:05
Reason for change:	EB contamination							

Data Qualifier Summary

Lab Reporting Batch ID: 280-76114-1 **Laboratory: TA DEN**

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

Method Category: METALS

Method: 6010C **Matrix:** AQ

Sample ID: MW01102015 **Collected:** 10/28/2015 12:35:00 PM **Analysis Type:** RES/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1900	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: MW01102015 **Collected:** 10/28/2015 12:35:00 PM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	4000		70	LOD	300	LOQ	ug/L	J	Ms
POTASSIUM	1500	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: MW02102015 **Collected:** 10/28/2015 11:28:00 AM **Analysis Type:** RES/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	930	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: MW02102015 **Collected:** 10/28/2015 11:28:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	3700		70	LOD	300	LOQ	ug/L	J	Ms
POTASSIUM	1700	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: TMW16102015 **Collected:** 10/28/2015 10:40:00 AM **Analysis Type:** RES/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	67	J	70	LOD	300	LOQ	ug/L	J	RI
IRON	41	J	85	LOD	100	LOQ	ug/L	J	RI
MAGNESIUM	440	J	40	LOD	500	LOQ	ug/L	J	RI
POTASSIUM	590	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: TMW16102015 **Collected:** 10/28/2015 10:40:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	1900		70	LOD	300	LOQ	ug/L	J	Ms
POTASSIUM	1000	J	940	LOD	3000	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: 280-76114-1 **Laboratory: TA DEN**

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

Method Category: METALS

Method: 6010C **Matrix:** AQ

Sample ID: TMW19102015 **Collected:** 10/28/2015 11:35:00 AM **Analysis Type:** RES/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1500	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: TMW19102015 **Collected:** 10/28/2015 11:35:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	880	J	70	LOD	300	LOQ	ug/L	J	Ms
POTASSIUM	1100	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: TMW29102015 **Collected:** 10/28/2015 9:48:00 AM **Analysis Type:** RES/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2200	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: TMW29102015 **Collected:** 10/28/2015 9:48:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	6500		70	LOD	300	LOQ	ug/L	J	Ms
POTASSIUM	2400	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: TMW36102015 **Collected:** 10/28/2015 1:50:00 PM **Analysis Type:** RES/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1100	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: TMW36102015 **Collected:** 10/28/2015 1:50:00 PM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	250	J	70	LOD	300	LOQ	ug/L	J	RI, Ms
POTASSIUM	1100	J	940	LOD	3000	LOQ	ug/L	J	RI

Sample ID: TMW37102015 **Collected:** 10/28/2015 12:41:00 PM **Analysis Type:** RES/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	65	J	70	LOD	300	LOQ	ug/L	J	RI
IRON	56	J	85	LOD	100	LOQ	ug/L	J	RI
POTASSIUM	930	J	940	LOD	3000	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: 280-76114-1 **Laboratory: TA DEN**

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

Method Category: METALS

Method: 6010C **Matrix: AQ**

Sample ID: TMW37102015 **Collected:** 10/28/2015 12:41:00 PM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	510		70	LOD	300	LOQ	ug/L	J	Ms
POTASSIUM	1000	J	940	LOD	3000	LOQ	ug/L	J	Rl

Sample ID: TMW40S102015 **Collected:** 10/28/2015 10:35:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	59000		70	LOD	300	LOQ	ug/L	J	Ms

Method Category: METALS

Method: 6020A **Matrix: AQ**

Sample ID: MW01102015 **Collected:** 10/28/2015 12:35:00 PM **Analysis Type:** RES/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.2	J	1.0	LOD	5.0	LOQ	ug/L	J	Rl
BERYLLIUM	0.36	J	0.30	LOD	1.0	LOQ	ug/L	J	Rl
CHROMIUM	3.4	J	1.8	LOD	10	LOQ	ug/L	J	Rl
LEAD	2.0	J	0.70	LOD	3.0	LOQ	ug/L	J	Rl

Sample ID: MW01102015 **Collected:** 10/28/2015 12:35:00 PM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.2	J	1.0	LOD	5.0	LOQ	ug/L	J	Rl
BERYLLIUM	0.16	J	0.30	LOD	1.0	LOQ	ug/L	J	Rl
CHROMIUM	2.7	J	1.8	LOD	10	LOQ	ug/L	J	Rl
LEAD	1.7	J	0.70	LOD	3.0	LOQ	ug/L	J	Rl
NICKEL	2.6	J	1.0	LOD	3.0	LOQ	ug/L	U	Mb

Sample ID: MW02102015 **Collected:** 10/28/2015 11:28:00 AM **Analysis Type:** RES/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	0.56	J	1.0	LOD	3.0	LOQ	ug/L	J	Rl
VANADIUM	0.76	J	2.0	LOD	6.0	LOQ	ug/L	J	Rl

* denotes a non-reportable result

Project Name and Number: 102012 - FWDA 102012 GW

Data Qualifier Summary

Lab Reporting Batch ID: 280-76114-1 **Laboratory: TA DEN**

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

Method Category: METALS

Method: 6020A **Matrix:** AQ

Sample ID: MW02102015 **Collected:** 10/28/2015 11:28:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.0	J	1.0	LOD	5.0	LOQ	ug/L	J	Rl
BERYLLIUM	0.20	J	0.30	LOD	1.0	LOQ	ug/L	J	Rl
CHROMIUM	3.0	J	1.8	LOD	10	LOQ	ug/L	J	Rl
COPPER	1.8	J	1.8	LOD	2.0	LOQ	ug/L	J	Rl
LEAD	2.0	J	0.70	LOD	3.0	LOQ	ug/L	J	Rl
NICKEL	2.8	J	1.0	LOD	3.0	LOQ	ug/L	U	Mb

Sample ID: TMW16102015 **Collected:** 10/28/2015 10:40:00 AM **Analysis Type:** RE2/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.86	J	1.8	LOD	2.0	LOQ	ug/L	J	Rl

Sample ID: TMW16102015 **Collected:** 10/28/2015 10:40:00 AM **Analysis Type:** RES/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.46	J	1.0	LOD	5.0	LOQ	ug/L	J	Rl
CHROMIUM	0.65	J	1.8	LOD	10	LOQ	ug/L	J	Rl
COBALT	0.11	J	0.20	LOD	1.0	LOQ	ug/L	J	Rl
SILVER	0.055	J	0.10	LOD	5.0	LOQ	ug/L	J	Rl
ZINC	7.1	J	8.0	LOD	20	LOQ	ug/L	J	Rl

Sample ID: TMW16102015 **Collected:** 10/28/2015 10:40:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.75	J	1.0	LOD	5.0	LOQ	ug/L	J	Rl
CHROMIUM	2.8	J	1.8	LOD	10	LOQ	ug/L	J	Rl
COBALT	0.72	J	0.20	LOD	1.0	LOQ	ug/L	U	Eb
LEAD	1.0	J	0.70	LOD	3.0	LOQ	ug/L	U	Eb
SILVER	0.59	J	0.10	LOD	5.0	LOQ	ug/L	J	Rl
THALLIUM	0.27	J	0.20	LOD	1.0	LOQ	ug/L	U	Mb, Eb
ZINC	18	J	8.0	LOD	20	LOQ	ug/L	J	Rl

* denotes a non-reportable result

Project Name and Number: 102012 - FWDA 102012 GW

Data Qualifier Summary

Lab Reporting Batch ID: 280-76114-1 **Laboratory: TA DEN**

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

Method Category: **METALS**

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

Sample ID: **TMW19102015** ***Collected:*** **10/28/2015 11:35:00 AM** ***Analysis Type:*** **RES/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.91	J	1.0	LOD	5.0	LOQ	ug/L	J	RI
BERYLLIUM	0.28	J	0.30	LOD	1.0	LOQ	ug/L	J	RI
CHROMIUM	4.6	J	1.8	LOD	10	LOQ	ug/L	J	RI
LEAD	1.3	J	0.70	LOD	3.0	LOQ	ug/L	J	RI
SILVER	0.14	J	0.10	LOD	5.0	LOQ	ug/L	J	RI
VANADIUM	5.1	J	2.0	LOD	6.0	LOQ	ug/L	J	RI

Sample ID: **TMW19102015** ***Collected:*** **10/28/2015 11:35:00 AM** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.36	J	1.0	LOD	5.0	LOQ	ug/L	J	RI
BERYLLIUM	0.20	J	0.30	LOD	1.0	LOQ	ug/L	J	RI
CHROMIUM	1.1	J	1.8	LOD	10	LOQ	ug/L	J	RI
COBALT	0.27	J	0.20	LOD	1.0	LOQ	ug/L	U	Mb
COPPER	0.99	J	1.8	LOD	2.0	LOQ	ug/L	J	RI
LEAD	0.42	J	0.70	LOD	3.0	LOQ	ug/L	U	Eb
SILVER	0.14	J	0.10	LOD	5.0	LOQ	ug/L	U	Eb
THALLIUM	0.14	J	0.20	LOD	1.0	LOQ	ug/L	U	Mb, Eb
ZINC	7.7	J	8.0	LOD	20	LOQ	ug/L	J	RI

Sample ID: **TMW29102015** ***Collected:*** **10/28/2015 9:48:00 AM** ***Analysis Type:*** **RES/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.7	J	1.0	LOD	5.0	LOQ	ug/L	J	RI
BERYLLIUM	0.39	J	0.30	LOD	1.0	LOQ	ug/L	J	RI
CHROMIUM	3.7	J	1.8	LOD	10	LOQ	ug/L	J	RI
LEAD	1.8	J	0.70	LOD	3.0	LOQ	ug/L	J	RI
ZINC	8.8	J	8.0	LOD	20	LOQ	ug/L	J	RI

Sample ID: **TMW29102015** ***Collected:*** **10/28/2015 9:48:00 AM** ***Analysis Type:*** **RES/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	2.2	J	1.0	LOD	5.0	LOQ	ug/L	J	RI
BERYLLIUM	0.29	J	0.30	LOD	1.0	LOQ	ug/L	J	RI
CHROMIUM	4.6	J	1.8	LOD	10	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: 280-76114-1 **Laboratory: TA DEN**

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

Method Category: METALS

Method: 6020A **Matrix:** AQ

Sample ID: TMW29102015 **Collected:** 10/28/2015 9:48:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.051	J	0.20	LOD	1.0	LOQ	ug/L	U	Mb, Eb
ZINC	14	J	8.0	LOD	20	LOQ	ug/L	J	RI

Sample ID: TMW36102015 **Collected:** 10/28/2015 1:50:00 PM **Analysis Type:** RES/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	0.70	J	1.8	LOD	10	LOQ	ug/L	J	RI
COBALT	0.18	J	0.20	LOD	1.0	LOQ	ug/L	J	RI
LEAD	0.36	J	0.70	LOD	3.0	LOQ	ug/L	J	RI
VANADIUM	1.9	J	2.0	LOD	6.0	LOQ	ug/L	J	RI
ZINC	15	J	8.0	LOD	20	LOQ	ug/L	J	RI

Sample ID: TMW36102015 **Collected:** 10/28/2015 1:50:00 PM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.12	J	0.30	LOD	1.0	LOQ	ug/L	J	RI
COBALT	0.35	J	0.20	LOD	1.0	LOQ	ug/L	U	Mb, Eb
COPPER	0.89	J	1.8	LOD	2.0	LOQ	ug/L	J	RI
LEAD	0.91	J	0.70	LOD	3.0	LOQ	ug/L	U	Eb
SILVER	0.28	J	0.10	LOD	5.0	LOQ	ug/L	U	Eb
THALLIUM	0.063	J	0.20	LOD	1.0	LOQ	ug/L	U	Mb, Eb
VANADIUM	3.2	J	2.0	LOD	6.0	LOQ	ug/L	J	RI

Sample ID: TMW37102015 **Collected:** 10/28/2015 12:41:00 PM **Analysis Type:** RES/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.39	J	1.0	LOD	5.0	LOQ	ug/L	J	RI
CHROMIUM	0.67	J	1.8	LOD	10	LOQ	ug/L	J	RI
COBALT	0.20	J	0.20	LOD	1.0	LOQ	ug/L	J	RI
LEAD	0.39	J	0.70	LOD	3.0	LOQ	ug/L	J	RI
VANADIUM	3.7	J	2.0	LOD	6.0	LOQ	ug/L	J	RI
ZINC	15	J	8.0	LOD	20	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: 280-76114-1 **Laboratory: TA DEN**

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

Method Category: METALS

Method: 6020A **Matrix: AQ**

Sample ID: TMW37102015 **Collected:** 10/28/2015 12:41:00 PM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.48	J	1.0	LOD	5.0	LOQ	ug/L	J	RI
BERYLLIUM	0.094	J	0.30	LOD	1.0	LOQ	ug/L	J	RI
CHROMIUM	3.6	J	1.8	LOD	10	LOQ	ug/L	J	RI
COBALT	0.51	J	0.20	LOD	1.0	LOQ	ug/L	U	Eb
COPPER	1.5	J	1.8	LOD	2.0	LOQ	ug/L	J	RI
LEAD	1.7	J	0.70	LOD	3.0	LOQ	ug/L	J	RI
SILVER	0.44	J	0.10	LOD	5.0	LOQ	ug/L	J	RI
THALLIUM	0.054	J	0.20	LOD	1.0	LOQ	ug/L	U	Mb, Eb
VANADIUM	3.0	J	2.0	LOD	6.0	LOQ	ug/L	J	RI

Sample ID: TMW40S102015 **Collected:** 10/28/2015 10:35:00 AM **Analysis Type:** RE2/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.70	J	1.0	LOD	1.0	LOQ	ug/L	J	RI

Sample ID: TMW40S102015 **Collected:** 10/28/2015 10:35:00 AM **Analysis Type:** RES/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.048	J	0.10	LOD	5.0	LOQ	ug/L	J	RI
THALLIUM	0.089	J	0.20	LOD	1.0	LOQ	ug/L	J	RI

Sample ID: TMW40S102015 **Collected:** 10/28/2015 10:35:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.33	J	0.10	LOD	5.0	LOQ	ug/L	U	Eb
THALLIUM	0.23	J	0.20	LOD	1.0	LOQ	ug/L	U	Mb, Eb

Method Category: METALS

Method: 7470A **Matrix: AQ**

Sample ID: MW01102015 **Collected:** 10/28/2015 12:35:00 PM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.027	J Q	0.080	LOD	0.20	LOQ	ug/L	J	RI, Lcs

* denotes a non-reportable result

Project Name and Number: 102012 - FWDA 102012 GW

Data Qualifier Summary

Lab Reporting Batch ID: 280-76114-1 **Laboratory: TA DEN**

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

Method Category: METALS

Method: 7470A **Matrix: AQ**

Sample ID: TMW16102015 **Collected:** 10/28/2015 10:40:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.038	J Q	0.080	LOD	0.20	LOQ	ug/L	J	Rl, Lcs

Sample ID: TMW40S102015 **Collected:** 10/28/2015 10:35:00 AM **Analysis Type:** RES/DIS **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.027	J	0.080	LOD	0.20	LOQ	ug/L	J	Rl

Sample ID: TMW40S102015 **Collected:** 10/28/2015 10:35:00 AM **Analysis Type:** RES/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.053	J Q	0.080	LOD	0.20	LOQ	ug/L	J	Rl, Lcs

Method Category: SVOA

Method: 6860 **Matrix: AQ**

Sample ID: TMW16102015 **Collected:** 10/28/2015 10:40:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	0.0078	J	0.010	LOD	0.050	LOQ	ug/L	J	Rl

Method Category: SVOA

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

Sample ID: MW01102015 **Collected:** 10/28/2015 12:35:00 PM **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	0.12	J M	0.11	LOD	0.24	LOQ	mg/L	U	Eb

Sample ID: MW02102015 **Collected:** 10/28/2015 11:28:00 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	0.48	M	0.13	LOD	0.27	LOQ	mg/L	U	Eb

* denotes a non-reportable result

Project Name and Number: 102012 - FWDA 102012 GW

Data Qualifier Summary

Lab Reporting Batch ID: 280-76114-1 **Laboratory: TA DEN**

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

Method Category: SVOA

Method: 8081A **Matrix:** AQ

Sample ID: MW01102015 **Collected:** 10/28/2015 12:35:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
4,4'-DDE	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
4,4'-DDT	0.050	U Q	0.050	LOD	0.050	LOQ	ug/L	UJ	Surr
ALDRIN	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
ALPHA-BHC	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
ALPHA-CHLORDANE	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
BETA-BHC	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
DELTA-BHC	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
DIELDRIN	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
ENDOSULFAN I	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
ENDOSULFAN II	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
ENDOSULFAN SULFATE	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
ENDRIN	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
ENDRIN ALDEHYDE	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
ENDRIN KETONE	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
GAMMA-BHC	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
GAMMA-CHLORDANE	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
HEPTACHLOR	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
HEPTACHLOR EPOXIDE	0.020	U Q	0.020	LOD	0.050	LOQ	ug/L	UJ	Surr
METHOXYCHLOR	0.050	U Q	0.050	LOD	0.050	LOQ	ug/L	UJ	Surr
TOXAPHENE	0.81	U Q	0.81	LOD	5.0	LOQ	ug/L	UJ	Surr

Method Category: SVOA

Method: 8270D **Matrix:** AQ

Sample ID: TMW16102015 **Collected:** 10/28/2015 10:40:00 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
ACETOPHENONE	0.24	J	5.0	LOD	10	LOQ	ug/L	J	RI
DIETHYL PHTHALATE	0.98	J	1.0	LOD	20	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: 280-76114-1 **Laboratory: TA DEN**

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

Method Category: SVOA

Method: 8270D **Matrix: AQ**

Sample ID: TMW19102015 **Collected:** 10/28/2015 11:35:00 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
ACETOPHENONE	1.3	J	4.9	LOD	9.9	LOQ	ug/L	J	RI
DIETHYL PHTHALATE	0.87	J	0.99	LOD	20	LOQ	ug/L	J	RI

Sample ID: TMW36102015 **Collected:** 10/28/2015 1:50:00 PM **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETOPHENONE	0.47	J	5.4	LOD	11	LOQ	ug/L	J	RI

Method Category: VOA

Method: 8260B **Matrix: AQ**

Sample ID: MW22S102015 **Collected:** 10/28/2015 9:03:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHANE	0.46	J	0.80	LOD	1.0	LOQ	ug/L	J	RI

Sample ID: TMW19102015 **Collected:** 10/28/2015 11:35:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.38	J	0.40	LOD	1.0	LOQ	ug/L	J	RI

Sample ID: TMW40S102015 **Collected:** 10/28/2015 10:35:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.41	J	0.40	LOD	1.0	LOQ	ug/L	U	Eb

* denotes a non-reportable result

Project Name and Number: 102012 - FWDA 102012 GW

Data Qualifier Summary

Lab Reporting Batch ID: 280-76114-1 **Laboratory: TA DEN**

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

Reason Code Legend

Reason Code	*Description*
Eb	Equipment Blank Contamination
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Upper Estimation
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation

* 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: 280-76114-1						
Method: 6010C						
MW01102015	280-76114-11	AQ	N	3005A	10/28/2015 12:35:00 PM	S2AVE
MW01102015	280-76114-11	AQ	N	3010A	10/28/2015 12:35:00 PM	S2AVE
MW02102015	280-76114-10	AQ	N	3010A	10/28/2015 11:28:00 AM	S2AVE
MW02102015	280-76114-10	AQ	N	3005A	10/28/2015 11:28:00 AM	S2AVE
TMW16102015	280-76114-3	AQ	N	3010A	10/28/2015 10:40:00 AM	S2AVE
TMW16102015	280-76114-3	AQ	N	3005A	10/28/2015 10:40:00 AM	S2AVE
TMW19102015	280-76114-4	AQ	N	3005A	10/28/2015 11:35:00 AM	S2AVE
TMW19102015	280-76114-4	AQ	N	3010A	10/28/2015 11:35:00 AM	S2AVE
TMW19102015MS	280-76114-4MS	AQ	MS	3010A	10/28/2015 11:35:00 AM	S2AVE
TMW19102015MSD	280-76114-4MSD	AQ	MSD	3010A	10/28/2015 11:35:00 AM	S2AVE
TMW29102015	280-76114-8	AQ	N	3005A	10/28/2015 9:48:00 AM	S2AVE
TMW29102015	280-76114-8	AQ	N	3010A	10/28/2015 9:48:00 AM	S2AVE
TMW36102015	280-76114-6	AQ	N	3005A	10/28/2015 1:50:00 PM	S2AVE
TMW36102015	280-76114-6	AQ	N	3010A	10/28/2015 1:50:00 PM	S2AVE
TMW37102015	280-76114-5	AQ	N	3005A	10/28/2015 12:41:00 PM	S2AVE
TMW37102015	280-76114-5	AQ	N	3010A	10/28/2015 12:41:00 PM	S2AVE
TMW40S102015	280-76114-9	AQ	N	3005A	10/28/2015 10:35:00 AM	S2AVE
TMW40S102015	280-76114-9	AQ	N	3010A	10/28/2015 10:35:00 AM	S2AVE
Method: 6020A						
MW01102015	280-76114-11	AQ	N	3005A	10/28/2015 12:35:00 PM	S2AVE
MW01102015	280-76114-11	AQ	N	3020A	10/28/2015 12:35:00 PM	S2AVE
MW02102015	280-76114-10	AQ	N	3005A	10/28/2015 11:28:00 AM	S2AVE
MW02102015	280-76114-10	AQ	N	3020A	10/28/2015 11:28:00 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: 6020A						
TMW16102015	280-76114-3	AQ	N	3005A	10/28/2015 10:40:00 AM	S2AVE
TMW16102015	280-76114-3	AQ	N	3020A	10/28/2015 10:40:00 AM	S2AVE
TMW16102015MS	280-76114-3MS	AQ	MS	3020A	10/28/2015 10:40:00 AM	S2AVE
TMW16102015MSD	280-76114-3MSD	AQ	MSD	3020A	10/28/2015 10:40:00 AM	S2AVE
TMW19102015	280-76114-4	AQ	N	3005A	10/28/2015 11:35:00 AM	S2AVE
TMW19102015	280-76114-4	AQ	N	3020A	10/28/2015 11:35:00 AM	S2AVE
TMW29102015	280-76114-8	AQ	N	3005A	10/28/2015 9:48:00 AM	S2AVE
TMW29102015	280-76114-8	AQ	N	3020A	10/28/2015 9:48:00 AM	S2AVE
TMW36102015	280-76114-6	AQ	N	3005A	10/28/2015 1:50:00 PM	S2AVE
TMW36102015	280-76114-6	AQ	N	3020A	10/28/2015 1:50:00 PM	S2AVE
TMW37102015	280-76114-5	AQ	N	3005A	10/28/2015 12:41:00 PM	S2AVE
TMW37102015	280-76114-5	AQ	N	3020A	10/28/2015 12:41:00 PM	S2AVE
TMW40S102015	280-76114-9	AQ	N	3005A	10/28/2015 10:35:00 AM	S2AVE
TMW40S102015	280-76114-9	AQ	N	3020A	10/28/2015 10:35:00 AM	S2AVE
Method: 6860						
MW01102015	280-76114-11	AQ	N	METHOD	10/28/2015 12:35:00 PM	S2AVE
MW02102015	280-76114-10	AQ	N	METHOD	10/28/2015 11:28:00 AM	S2AVE
TMW16102015	280-76114-3	AQ	N	METHOD	10/28/2015 10:40:00 AM	S2AVE
TMW19102015	280-76114-4	AQ	N	METHOD	10/28/2015 11:35:00 AM	S2AVE
TMW29102015	280-76114-8	AQ	N	METHOD	10/28/2015 9:48:00 AM	S2AVE
TMW29102015MS	280-76114-8MS	AQ	MS	METHOD	10/28/2015 9:48:00 AM	S2AVE
TMW29102015MSD	280-76114-8MSD	AQ	MSD	METHOD	10/28/2015 9:48:00 AM	S2AVE
TMW36102015	280-76114-6	AQ	N	METHOD	10/28/2015 1:50:00 PM	S2AVE
TMW37102015	280-76114-5	AQ	N	METHOD	10/28/2015 12:41:00 PM	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: 7470A						
MW01102015	280-76114-11	AQ	N	7470A	10/28/2015 12:35:00 PM	S2AVE
MW02102015	280-76114-10	AQ	N	7470A	10/28/2015 11:28:00 AM	S2AVE
TMW16102015	280-76114-3	AQ	N	7470A	10/28/2015 10:40:00 AM	S2AVE
TMW16102015MS	280-76114-3MS	AQ	MS	7470A	10/28/2015 10:40:00 AM	S2AVE
TMW16102015MSD	280-76114-3MSD	AQ	MSD	7470A	10/28/2015 10:40:00 AM	S2AVE
TMW19102015	280-76114-4	AQ	N	7470A	10/28/2015 11:35:00 AM	S2AVE
TMW29102015	280-76114-8	AQ	N	7470A	10/28/2015 9:48:00 AM	S2AVE
TMW36102015	280-76114-6	AQ	N	7470A	10/28/2015 1:50:00 PM	S2AVE
TMW37102015	280-76114-5	AQ	N	7470A	10/28/2015 12:41:00 PM	S2AVE
TMW40S102015	280-76114-9	AQ	N	7470A	10/28/2015 10:35:00 AM	S2AVE
Method: 8015C DRO						
MW01102015	280-76114-11	AQ	N	3510C	10/28/2015 12:35:00 PM	S2AVE
MW02102015	280-76114-10	AQ	N	3510C	10/28/2015 11:28:00 AM	S2AVE
Method: 8015C GRO						
MW01102015	280-76114-11	AQ	N	METHOD	10/28/2015 12:35:00 PM	S2AVE
MW02102015	280-76114-10	AQ	N	METHOD	10/28/2015 11:28:00 AM	S2AVE
MW22S102015	280-76114-7	AQ	N	METHOD	10/28/2015 9:03:00 AM	S2AVE
Method: 8081A						
MW01102015	280-76114-11	AQ	N	3510C	10/28/2015 12:35:00 PM	S2AVE
TMW36102015	280-76114-6	AQ	N	3510C	10/28/2015 1:50:00 PM	S2AVE
TMW37102015	280-76114-5	AQ	N	3510C	10/28/2015 12:41:00 PM	S2AVE
Method: 8260B						
MW01102015	280-76114-11	AQ	N	5030	10/28/2015 12:35:00 PM	S2AVE
MW02102015	280-76114-10	AQ	N	5030	10/28/2015 11:28:00 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: 8260B						
MW22S102015	280-76114-7	AQ	N	5030	10/28/2015 9:03:00 AM	S2AVE
TB-02-102015	280-76114-1	AQ	TB	5030	10/28/2015 9:00:00 AM	S2AVE
TB-03-102015	280-76114-2	AQ	TB	5030	10/28/2015 9:05:00 AM	S2AVE
TMW16102015	280-76114-3	AQ	N	5030	10/28/2015 10:40:00 AM	S2AVE
TMW19102015	280-76114-4	AQ	N	5030	10/28/2015 11:35:00 AM	S2AVE
TMW29102015	280-76114-8	AQ	N	5030	10/28/2015 9:48:00 AM	S2AVE
TMW36102015	280-76114-6	AQ	N	5030	10/28/2015 1:50:00 PM	S2AVE
TMW37102015	280-76114-5	AQ	N	5030	10/28/2015 12:41:00 PM	S2AVE
TMW40S102015	280-76114-9	AQ	N	5030	10/28/2015 10:35:00 AM	S2AVE
Method: 8270D						
TMW16102015	280-76114-3	AQ	N	3520C	10/28/2015 10:40:00 AM	S2AVE
TMW19102015	280-76114-4	AQ	N	3520C	10/28/2015 11:35:00 AM	S2AVE
TMW36102015	280-76114-6	AQ	N	3520C	10/28/2015 1:50:00 PM	S2AVE
TMW37102015	280-76114-5	AQ	N	3520C	10/28/2015 12:41:00 PM	S2AVE
Method: 8330B						
MW01102015	280-76114-11	AQ	N	3535	10/28/2015 12:35:00 PM	S2AVE
MW02102015	280-76114-10	AQ	N	3535	10/28/2015 11:28:00 AM	S2AVE
TMW16102015	280-76114-3	AQ	N	3535	10/28/2015 10:40:00 AM	S2AVE
TMW19102015	280-76114-4	AQ	N	3535	10/28/2015 11:35:00 AM	S2AVE
TMW29102015	280-76114-8	AQ	N	3535	10/28/2015 9:48:00 AM	S2AVE
TMW36102015	280-76114-6	AQ	N	3535	10/28/2015 1:50:00 PM	S2AVE
TMW37102015	280-76114-5	AQ	N	3535	10/28/2015 12:41:00 PM	S2AVE
Method: 9056						
MW01102015	280-76114-11	AQ	N	METHOD	10/28/2015 12:35:00 PM	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: 9056						
MW02102015	280-76114-10	AQ	N	METHOD	10/28/2015 11:28:00 AM	S2AVE
MW22S102015	280-76114-7	AQ	N	METHOD	10/28/2015 9:03:00 AM	S2AVE
TMW29102015	280-76114-8	AQ	N	METHOD	10/28/2015 9:48:00 AM	S2AVE
TMW36102015	280-76114-6	AQ	N	METHOD	10/28/2015 1:50:00 PM	S2AVE
TMW37102015	280-76114-5	AQ	N	METHOD	10/28/2015 12:41:00 PM	S2AVE
TMW37102015DUP	280-76114-5DUP	AQ	DUP	METHOD	10/28/2015 12:41:00 PM	S2AVE
TMW37102015MS	280-76114-5MS	AQ	MS	METHOD	10/28/2015 12:41:00 PM	S2AVE
TMW37102015MSD	280-76114-5MSD	AQ	MSD	METHOD	10/28/2015 12:41:00 PM	S2AVE
TMW40S102015	280-76114-9	AQ	N	METHOD	10/28/2015 10:35:00 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: 280-76114-1
EDD Filename: 280-76114-1

Laboratory: TA DEN
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	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	N
Field Triplicates	N
Field Blanks	SR

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.

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 280-76114-1 **Laboratory: TA DEN**

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

Method: **7470A**
Matrix: **AQ**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS 280-303832/2-A (TOT) (MW01102015 MW02102015 TMW16102015 TMW19102015 TMW29102015 TMW36102015 TMW37102015 TMW40S102015)	MERCURY	128	-	80.00-120.00	-	MERCURY	J (all detects)

Project Name and Number: 102012 - FWDA 102012 GW

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 280-76114-1 **Laboratory: TA DEN**

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

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

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
TMW19102015MS (TOT) TMW19102015MSD (TOT) (MW01102015 MW02102015 TMW16102015 TMW19102015 TMW29102015 TMW36102015 TMW37102015 TMW40S102015)	ALUMINUM	142	141	80.00-120.00	-	ALUMINUM	J (all detects)

Project Name and Number: 102012 - FWDA 102012 GW

Method Blank Outlier Report

Lab Reporting Batch ID: 280-76114-1 **Laboratory: TA DEN**

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

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB 280-301937/1-A	11/14/2015 12:54:00 AM	CALCIUM MAGNESIUM	43.0 ug/L 11.7 ug/L	MW01102015 MW02102015 TMW16102015 TMW19102015 TMW29102015 TMW36102015 TMW37102015 TMW40S102015

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	MW01102015 MW02102015 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/TOT)	NICKEL	2.6 ug/L	2.6U ug/L
MW02102015(RES/TOT)	NICKEL	2.8 ug/L	2.8U 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)	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)	THALLIUM	0.063 ug/L	0.063U ug/L
TMW37102015(RES/TOT)	THALLIUM	0.054 ug/L	0.054U ug/L
TMW40S102015(RES/TOT)	THALLIUM	0.23 ug/L	0.23U ug/L

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	TMW16102015 TMW19102015 TMW36102015 TMW37102015

Reporting Limit Outliers

Lab Reporting Batch ID: 280-76114-1 **Laboratory: TA DEN**

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

Method: 6010C

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
MW01102015	POTASSIUM	J	1900	3000	LOQ	ug/L	J (all detects)
MW02102015	POTASSIUM	J	930	3000	LOQ	ug/L	J (all detects)
TMW16102015	ALUMINUM	J	67	300	LOQ	ug/L	J (all detects)
	IRON	J	41	100	LOQ	ug/L	
	MAGNESIUM	J	440	500	LOQ	ug/L	
	POTASSIUM	J	590	3000	LOQ	ug/L	
TMW19102015	POTASSIUM	J	1500	3000	LOQ	ug/L	J (all detects)
TMW29102015	POTASSIUM	J	2200	3000	LOQ	ug/L	J (all detects)
TMW36102015	ALUMINUM	J	250	300	LOQ	ug/L	J (all detects)
	POTASSIUM	J	1100	3000	LOQ	ug/L	
TMW37102015	ALUMINUM	J	65	300	LOQ	ug/L	J (all detects)
	IRON	J	56	100	LOQ	ug/L	
	POTASSIUM	J	930	3000	LOQ	ug/L	

Method: 6020A

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
MW01102015	ARSENIC	J	1.2	5.0	LOQ	ug/L	J (all detects)
	BERYLLIUM	J	0.36	1.0	LOQ	ug/L	
	CHROMIUM	J	3.4	10	LOQ	ug/L	
	LEAD	J	2.0	3.0	LOQ	ug/L	
	NICKEL	J	2.6	3.0	LOQ	ug/L	
MW02102015	ARSENIC	J	1.0	5.0	LOQ	ug/L	J (all detects)
	BERYLLIUM	J	0.20	1.0	LOQ	ug/L	
	CHROMIUM	J	3.0	10	LOQ	ug/L	
	COPPER	J	1.8	2.0	LOQ	ug/L	
	LEAD	J	2.0	3.0	LOQ	ug/L	
	NICKEL	J	0.56	3.0	LOQ	ug/L	
	VANADIUM	J	0.76	6.0	LOQ	ug/L	
TMW16102015	ARSENIC	J	0.46	5.0	LOQ	ug/L	J (all detects)
	CHROMIUM	J	0.65	10	LOQ	ug/L	
	COBALT	J	0.11	1.0	LOQ	ug/L	
	COPPER	J	0.86	2.0	LOQ	ug/L	
	LEAD	J	1.0	3.0	LOQ	ug/L	
	SILVER	J	0.055	5.0	LOQ	ug/L	
	THALLIUM	J	0.27	1.0	LOQ	ug/L	
	ZINC	J	7.1	20	LOQ	ug/L	
TMW19102015	ARSENIC	J	0.91	5.0	LOQ	ug/L	J (all detects)
	BERYLLIUM	J	0.28	1.0	LOQ	ug/L	
	CHROMIUM	J	4.6	10	LOQ	ug/L	
	COBALT	J	0.27	1.0	LOQ	ug/L	
	COPPER	J	0.99	2.0	LOQ	ug/L	
	LEAD	J	1.3	3.0	LOQ	ug/L	
	SILVER	J	0.14	5.0	LOQ	ug/L	
	THALLIUM	J	0.14	1.0	LOQ	ug/L	
	VANADIUM	J	5.1	6.0	LOQ	ug/L	
	ZINC	J	7.7	20	LOQ	ug/L	

Project Name and Number: 102012 - FWDA 102012 GW

Reporting Limit Outliers

Lab Reporting Batch ID: 280-76114-1 **Laboratory: TA DEN**

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

Method: 6020A

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
TMW29102015	ARSENIC	J	1.7	5.0	LOQ	ug/L	J (all detects)
	BERYLLIUM	J	0.39	1.0	LOQ	ug/L	
	CHROMIUM	J	3.7	10	LOQ	ug/L	
	LEAD	J	1.8	3.0	LOQ	ug/L	
	THALLIUM	J	0.051	1.0	LOQ	ug/L	
	ZINC	J	8.8	20	LOQ	ug/L	
TMW36102015	BERYLLIUM	J	0.12	1.0	LOQ	ug/L	J (all detects)
	CHROMIUM	J	0.70	10	LOQ	ug/L	
	COBALT	J	0.18	1.0	LOQ	ug/L	
	COPPER	J	0.89	2.0	LOQ	ug/L	
	LEAD	J	0.36	3.0	LOQ	ug/L	
	SILVER	J	0.28	5.0	LOQ	ug/L	
	THALLIUM	J	0.063	1.0	LOQ	ug/L	
	VANADIUM	J	1.9	6.0	LOQ	ug/L	
	ZINC	J	15	20	LOQ	ug/L	
TMW37102015	ARSENIC	J	0.39	5.0	LOQ	ug/L	J (all detects)
	BERYLLIUM	J	0.094	1.0	LOQ	ug/L	
	CHROMIUM	J	0.67	10	LOQ	ug/L	
	COBALT	J	0.20	1.0	LOQ	ug/L	
	COPPER	J	1.5	2.0	LOQ	ug/L	
	LEAD	J	0.39	3.0	LOQ	ug/L	
	SILVER	J	0.44	5.0	LOQ	ug/L	
	THALLIUM	J	0.054	1.0	LOQ	ug/L	
	VANADIUM	J	3.7	6.0	LOQ	ug/L	
	ZINC	J	15	20	LOQ	ug/L	
TMW40S102015	CADMIUM	J	0.70	1.0	LOQ	ug/L	J (all detects)
	SILVER	J	0.048	5.0	LOQ	ug/L	
	THALLIUM	J	0.089	1.0	LOQ	ug/L	

Method: 6860

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
TMW16102015	PERCHLORATE	J	0.0078	0.050	LOQ	ug/L	J (all detects)

Method: 7470A

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
MW01102015	MERCURY	J Q	0.027	0.20	LOQ	ug/L	J (all detects)
TMW16102015	MERCURY	J Q	0.038	0.20	LOQ	ug/L	J (all detects)
TMW40S102015	MERCURY	J	0.027	0.20	LOQ	ug/L	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: 280-76114-1 **Laboratory: TA DEN**

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

Method: 8015C DRO

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
MW01102015	DIESEL RANGE ORGANICS	J M	0.12	0.24	LOQ	mg/L	J (all detects)

Method: 8260B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
MW22S102015	1,1-DICHLOROETHANE	J	0.46	1.0	LOQ	ug/L	J (all detects)
TMW19102015	TOLUENE	J	0.38	1.0	LOQ	ug/L	J (all detects)
TMW40S102015	CHLOROFORM	J	0.41	1.0	LOQ	ug/L	J (all detects)

Method: 8270D

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
TMW16102015	ACETOPHENONE DIETHYL PHTHALATE	J J	0.24 0.98	10 20	LOQ LOQ	ug/L ug/L	J (all detects)
TMW19102015	ACETOPHENONE DIETHYL PHTHALATE	J J	1.3 0.87	9.9 20	LOQ LOQ	ug/L ug/L	J (all detects)
TMW36102015	ACETOPHENONE	J	0.47	11	LOQ	ug/L	J (all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: 280-76114-1 **Laboratory: TA DEN**

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

Method: 8081A
Matrix: AQ

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
MW01102015	DECACHLOROBIPHENYL	17	30.00-135.00	All Target Analytes	J (all detects) UJ (all non-detects)

Method: 8270D
Matrix: AQ

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
TMW36102015	Terphenyl-d14	41	50.00-135.00	No Affected Compounds	