

**CASE NARRATIVE**  
**Client: Sundance Consulting, Inc.**  
**Project: Fort Wingate, New Mexico**  
**Report Number: 280-76048-2**

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.

**Sample Receipt**

The following report contains the analytical results for one sample received 10/28/2015, according to documented sample acceptance procedures. The sample was received at a temperature of 0.5°C.

Additional samples/analyses requested on the chain-of-custody are reported under separate cover (280-76048-1).

No other anomalies were encountered during sample receipt.

**GC/MS Semivolatiles - 8270D**

Sample FW102015EQU001 (280-76048-2) was analyzed for semivolatile organic compounds (GC-MS) in accordance with SW-846 8270D. The sample was prepared on 10/29/2015 and analyzed on 11/07/2015.

Please note the Caprolactam data are reported under separate cover, as the laboratory does not hold DOD ELAP certification for this compound. The laboratory does not maintain quarterly QC requirements for precision, accuracy and detections.

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

MS/MSD analyses for prep batch 280-302918 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:** 280-76048-2

**eQapp Name:** FtWingate\_Primary\_120405

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| Associated<br>Samples | Sample Collection<br>Date |
|-----------------------|---------------------------|
|-----------------------|---------------------------|

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## ***Data Qualifier Summary***

Lab Reporting Batch ID: 280-76048-2

Laboratory: TA DEN

EDD Filename: 280-76048-2

eQAPP Name: FtWingate\_Primary\_120405

**No Data Review Qualifiers Applied.**



## Data Review Summary

Lab Reporting Batch ID: 280-76048-2

Laboratory: TA DEN

EDD Filename: 280-76048-2

eQAPP Name: FtWingate\_Primary\_120405

| <i>Validation Area</i>                                  | <i>Note</i> |
|---|-------------|
| Technical Holding Times                                 | A           |
| Temperature   | A           |
| Initial Calibration                                     | N           |
| Continuing Calibration/Initial Calibration Verification | N           |
| Method Blanks   | A           |
| Surrogate/Tracer Spikes                                 | A           |
| Matrix Spike/Matrix Spike Duplicates                    | N           |
| Laboratory Duplicates                                   | N           |
| Laboratory Replicates                                   | N           |
| Laboratory Control Samples                              | A           |
| Compound Quantitation                                   | A           |
| 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.



## *Data Review Sample Summary Report by Analysis Method*

**Reviewed By:**

**Approved By:**

**Laboratory: TA DEN**

| <i>Client Sample ID</i> | <i>Lab Sample ID</i> | <i>Matrix</i> | <i>Sample Type</i> | <i>Preparation Method</i> | <i>Collection Date</i> | <i>Validation Code</i> |
|-------------------------|----------------------|---------------|--------------------|---------------------------|------------------------|------------------------|
|-------------------------|----------------------|---------------|--------------------|---------------------------|------------------------|------------------------|

**Lab Reporting Batch: 280-76048-2**

**Method: 8270D**

|                |             |    |    |       |                          |       |
|----------------|-------------|----|----|-------|--------------------------|-------|
| FW102015EQU001 | 280-76048-2 | AQ | EB | 3520C | 10/27/2015 9:40:00<br>AM | S2AVE |
|----------------|-------------|----|----|-------|--------------------------|-------|



## *Data Review Sample Summary Report by Analysis Method*

Reviewed By:

Approved By:

Laboratory: TA DEN

| <i>Client Sample ID</i> | <i>Lab Sample ID</i> | <i>Matrix</i> | <i>Sample Type</i> | <i>Preparation Method</i> | <i>Collection Date</i> | <i>Validation Code</i> |
|-------------------------|----------------------|---------------|--------------------|---------------------------|------------------------|------------------------|
|-------------------------|----------------------|---------------|--------------------|---------------------------|------------------------|------------------------|

### *Validation Label Legend*

| <i>Label Code</i> | <i>Label Description</i>                  | <i>EPA Level</i>         |
|-------------------|---|--------------------------|
| 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                      |