

March 27, 2017

Tim Noack, P.E.  
Principal  
Alan Plummer Associates, Inc.  
1320 W. University Drive, Suite 300  
Fort Worth, Texas 76107

**RE: Limited Subsurface Investigation Letter Report**  
**SAWS Mitchell Lake – Wetland Areas W and C**  
**Bexar County, Texas**

Dear Mr. Noack:

Adams Environmental, Inc. (AEI) appreciates the opportunity to provide you with the findings from our Limited Subsurface Investigation (LSI) of the San Antonio Water System (SAWS) Mitchell Lake Wetlands Project components comprising proposed Wetland Area W and Wetland Area C in Bexar County, Texas.

**Background**

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This LSI was conducted on March 6-7, 2018, in response to the need for initial evaluation of common environmental (RCRA 8 metals), chlorinated pesticide, chlorinated herbicide, and agricultural constituents (total nitrogen, total phosphorus and nitrates) at the above referenced sites and for project planning purposes. This letter report summarizes the methodology and results derived from this LSI.

This LSI report was prepared by AEI for the exclusive use and benefit of Alan Plummer Associates, Inc. (APAI), its successors and assigns, and SAWS. Any use or application of this report by a third party is prohibited. This report should not be shared with any third party, and there are no third-party beneficiaries to this report. AEI does not assume responsibility for third party use of or reliance upon this report.

**Limitations**

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This LSI was conducted with the standard of care as is normally provided by professionals involved in environmental investigations of similar size and type, within the allocated time and project budget, and within the same geographic region. AEI makes no warranties, express or implied, regarding the findings, conclusions or recommendations. Please note that laboratory analyses are prepared by accredited providers; however, AEI does not warrant the work of these third parties. The methodology and findings presented in this document were performed in accordance with the agreed upon scope between APAI and AEI and are not intended to be in full compliance with the provisions of ASTM E1903-11, Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process.

The subsurface investigation detailed in this letter report included only surface soils to a depth of six inches below ground surface. Findings in this report were derived based upon information collected during the on-site sampling activities, and only to the depth of six inches as referenced in the agreed upon

scope. Chemical indicators of hazardous constituents may be latent, inaccessible, unstable, unobservable, nondetectable or not present at the time of services, artificially indicating that the site is “clean”. Composite sampling locations were generated randomly and may not represent whole site conditions.

## Methodology

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On March 6, 2018, AEI collected three (3) agricultural and two (2) environmental samples from Wetland Area W. AEI collected three (3) agricultural and two (2) environmental samples from Wetland Area C on March 7, 2018. Both areas are proposed permanent project locations for full-scale treatment wetlands associated with this project. Each sample was composited from seven (7) discreet samples collected at depth of 0-6 inches. Sampling locations are shown in **Figure 1**. The agricultural samples at Area W are identified as WA while the environmental samples at Area W are identified as WE in the legend. Additionally, in Area C, the agricultural samples are identified as CA and the environmental samples as CE. Each area was further divided into three smaller composite sampling location areas (i.e. WA1, WA2, WA3, WE1, WE2, etc.). Each composite location was sampled using a sharpshooter shovel, with no portion of the sample collected directly from the shovel blade. Composites were thoroughly mixed in a one-gallon bag before being transferred to laboratory-provided sample jars. Sampling equipment was cleaned with an Alconox solution and rinsed with distilled water at the start of the sampling event and between each point where samples were collected. New, clean latex gloves were used at each sample point to collect each sample to prevent cross-contamination between sample points. Surface water and groundwater sampling was not included in this sampling protocol.

Samples were placed on ice in an insulated container and shipped to San Antonio Testing Laboratory, Inc. (SATL) where they were analyzed for RCRA 8 metals, chlorinated pesticides, chlorinated herbicides, total (Kjeldahl) nitrogen, total phosphorus, and nitrates. Testing methods used to analyze collected samples included the Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition 2012, Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983, and EPA SW Test Methods for the Examination of Solid Waste, SW-846 Update IV, February 2007.

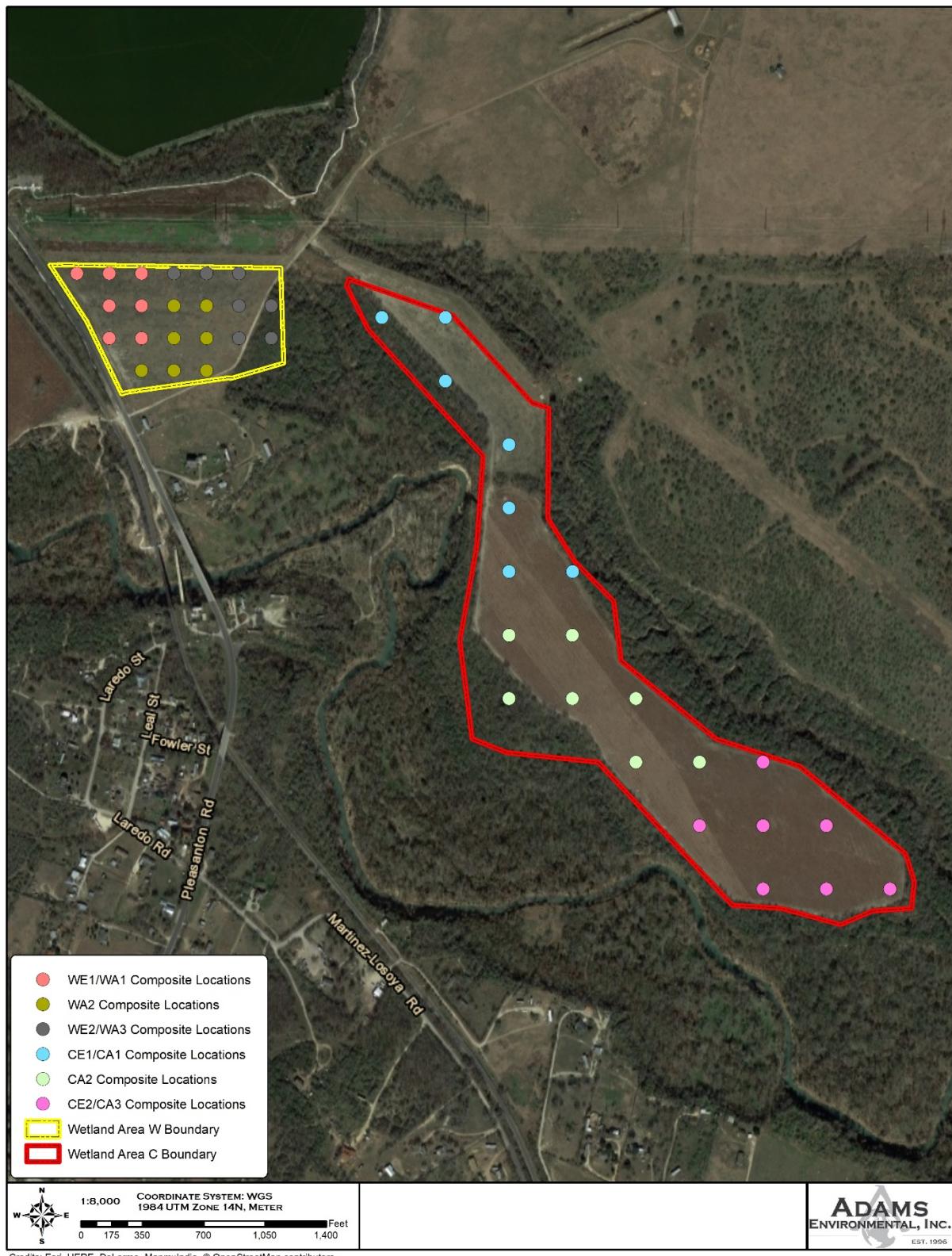


Figure 1. Locations of Wetland Areas W and C composite sampling points

### Results – Agricultural Constituents (Nitrates, Nitrogen, and Phosphorous)

The following tables summarize the results of the analytical analysis for soil samples collected to characterize select agricultural constituents on Wetland Area W and Area C project locations. Each area was divided into three subareas for sampling purposes. For a full review of the laboratory analysis of the samples, please see the attached *SATL Mitchell Lake Wetlands Laboratory Report* (March 16, 2018).

Because the intent of the project will be to construct a wetland, it is most appropriate to provide an index to compare nitrates, total Kjeldahl nitrogen and phosphorus concentrations to typical or average occurrences of each constituent in cultivated croplands. These numbers vary widely by geographic location, soil type, etc.; however, ideal or average occurrences of each analyzed constituent were identified in resources from Texas A&M University and Oregon State University. These values are provided in Tables 1-6 below.

**Table 1:** Agricultural constituents analyzed in soils samples collected at Area W (Subgroup 1) on March 6, 2018.  
Results presented below correspond to the Area W Agricultural 1 (WA1) Sample ID.

| Constituent             | Analysis Method (Prep/Analysis) | PQL <sup>1</sup> (mg/kg) | Result (mg/kg) | Soil Fertility Recommendations (mg/kg) <sup>2,3</sup> | TotSoil <sub>Comb</sub> (mg/kg) <sup>4</sup> |
|-------------------------|---------------------------------|--------------------------|----------------|---|--|
| Nitrate                 | EPA 300.0/<br>EPA 300.0         | 0.10                     | 1.37           | 40-75   | 130,000                                      |
| Total Kjeldahl Nitrogen | EPA 3540C/<br>EPA 351.3         | 1.0                      | 969            | 1,500   | --   |
| Phosphorus              | EPA 3051A/<br>EPA 6010B         | 1.0                      | 1,150          | 50  | --   |

1. PQL = Practical Quantitation Limit of laboratory test method
2. Texas A&M University - <http://soiltesting.tamu.edu/webpages/recommendations.html>
3. Oregon State University - [file:///C:/Users/Nellis/Desktop/OSU%20Soil%20Test%20Interpretation%20\(002\).pdf](file:///C:/Users/Nellis/Desktop/OSU%20Soil%20Test%20Interpretation%20(002).pdf)
4. TRRP Tier 1 Total Soil Combined Protective Concentration Level – 30 Acre Source Area (March 31, 2017)

**Table 2:** Agricultural constituents analyzed in soils samples collected at the Area W (Subgroup 2) on March 6, 2018.  
Results presented below correspond to the Area W Agricultural 2 (WA2) Sample ID.

| Constituent             | Analysis Method (Prep/Analysis) | PQL <sup>1</sup> (mg/kg) | Result (mg/kg) | Soil Fertility Recommendations (mg/kg) <sup>2,3</sup> | TotSoil <sub>Comb</sub> (mg/kg) <sup>4</sup> |
|-------------------------|---------------------------------|--------------------------|----------------|---|--|
| Nitrate                 | EPA 300.0/<br>EPA 300.0         | 0.10                     | 0.63           | 40-75   | 130,000                                      |
| Total Kjeldahl Nitrogen | EPA 3540C/<br>EPA 351.3         | 1.0                      | 1,120          | 1,500   | --   |
| Phosphorus              | EPA 3051A/<br>EPA 6010B         | 1.0                      | 1,200          | 50  | --   |

1. PQL = Practical Quantitation Limit of laboratory test method
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3. Oregon State University - [file:///C:/Users/Nellis/Desktop/OSU%20Soil%20Test%20Interpretation%20\(002\).pdf](file:///C:/Users/Nellis/Desktop/OSU%20Soil%20Test%20Interpretation%20(002).pdf)
4. TRRP Tier 1 Total Soil Combined Protective Concentration Level – 30 Acre Source Area (March 31, 2017)

**Table 3:** Agricultural constituents analyzed in soils samples collected at the Area W (Subgroup 3) on March 6, 2018.  
 Results presented below correspond to the Area W Agricultural 3 (WA3) Sample ID.

| Constituent             | Analysis Method (Prep/Analysis) | PQL <sup>1</sup> (mg/kg) | Result (mg/kg) | Soil Fertility Recommendations (mg/kg) <sup>2, 3</sup> | TotSoil <sub>Comb</sub> (mg/kg) <sup>4</sup> |
|-------------------------|---------------------------------|--------------------------|----------------|--|--|
| Nitrate                 | EPA 300.0/<br>EPA 300.0         | 0.10                     | 1.4            | 40-75  | 130,000                                      |
| Total Kjeldahl Nitrogen | EPA 3540C/<br>EPA 351.3         | 1.0                      | 1,270          | 1,500  | --   |
| Phosphorus              | EPA 3051A/<br>EPA 6010B         | 1.0                      | 1,160          | 50   | --   |

1. PQL = Practical Quantitation Limit of laboratory test method
2. Texas A&M University - <http://soiltesting.tamu.edu/webpages/recommendations.html>
3. Oregon State University - [file:///C:/Users/Nellis/Desktop/OSU%20Soil%20Test%20Interpretation%20\(002\).pdf](file:///C:/Users/Nellis/Desktop/OSU%20Soil%20Test%20Interpretation%20(002).pdf)
4. TRRP Tier 1 Total Soil Combined Protective Concentration Level – 30 Acre Source Area (March 31, 2017)

**Table 4:** Agricultural constituents analyzed in soils samples collected at the Area C (Subgroup 1) on March 7, 2018.  
 Results presented below correspond to the Area C Agricultural 1 (CA1) Sample ID.

| Constituent             | Analysis Method (Prep/Analysis) | PQL <sup>1</sup> (mg/kg) | Result (mg/kg) | Soil Fertility Recommendations (mg/kg) <sup>2, 3</sup> | TotSoil <sub>Comb</sub> (mg/kg) <sup>4</sup> |
|-------------------------|---------------------------------|--------------------------|----------------|--|--|
| Nitrate                 | EPA 300.0/<br>EPA 300.0         | 0.10                     | 1.4            | 40-75  | 130,000                                      |
| Total Kjeldahl Nitrogen | EPA 3540C/<br>EPA 351.3         | 1.0                      | 733            | 1,500  | --   |
| Phosphorus              | EPA 3051A/<br>EPA 6010B         | 1.0                      | 929            | 50   | --   |

1. PQL = Practical Quantitation Limit of laboratory test method
2. Texas A&M University - <http://soiltesting.tamu.edu/webpages/recommendations.html>
3. Oregon State University - [file:///C:/Users/Nellis/Desktop/OSU%20Soil%20Test%20Interpretation%20\(002\).pdf](file:///C:/Users/Nellis/Desktop/OSU%20Soil%20Test%20Interpretation%20(002).pdf)
4. TRRP Tier 1 Total Soil Combined Protective Concentration Level – 30 Acre Source Area (March 31, 2017)

**Table 5:** Agricultural constituents analyzed in soils samples collected at the Area C (Subgroup 2) on March 7, 2018.  
 Results presented below correspond to the Area C Agricultural 2 (CA2) Sample ID.

| Constituent             | Analysis Method (Prep/Analysis) | PQL <sup>1</sup> (mg/kg) | Result (mg/kg) | Soil Fertility Recommendations (mg/kg) <sup>2, 3</sup> | TotSoil <sub>Comb</sub> (mg/kg) <sup>4</sup> |
|-------------------------|---------------------------------|--------------------------|----------------|--|--|
| Nitrate                 | EPA 300.0/<br>EPA 300.0         | 0.10                     | 1.16           | 40-75  | 130,000                                      |
| Total Kjeldahl Nitrogen | EPA 3540C/<br>EPA 351.3         | 1.0                      | 1,040          | 1,500  | --   |
| Phosphorus              | EPA 3050B/<br>EPA 6010B         | 1.0                      | 952            | 50   | --   |

1. PQL = Practical Quantitation Limit of laboratory test method
2. Texas A&M University - <http://soiltesting.tamu.edu/webpages/recommendations.html>
3. Oregon State University - [file:///C:/Users/Nellis/Desktop/OSU%20Soil%20Test%20Interpretation%20\(002\).pdf](file:///C:/Users/Nellis/Desktop/OSU%20Soil%20Test%20Interpretation%20(002).pdf)
4. TRRP Tier 1 Total Soil Combined Protective Concentration Level – 30 Acre Source Area (March 31, 2017)

**Table 6:** Agricultural constituents analyzed in soils samples collected at the Area C (Subgroup 3) on March 7, 2018.  
 Results presented below correspond to the Area C Agricultural 3 (CA3) Sample ID.

| Constituent             | Analysis Method (Prep/Analysis) | PQL <sup>1</sup> (mg/kg) | Result (mg/kg) | Soil Fertility Recommendations (mg/kg) <sup>2, 3</sup> | TotSoilComb (mg/kg) <sup>4</sup> |
|-------------------------|---------------------------------|--------------------------|----------------|--|----------------------------------|
| Nitrate                 | EPA 300.0/<br>EPA 300.0         | 0.10                     | 0.81           | 40-75  | 130,000                          |
| Total Kjeldahl Nitrogen | EPA 3540C/<br>EPA 351.3         | 1.0                      | 902            | 1,500  | --                               |
| Phosphorus              | EPA 3050B/<br>EPA 6010B         | 1.0                      | 876            | 50   | --                               |

1. PQL = Practical Quantitation Limit of laboratory test method
2. Texas A&M University - <http://soiltesting.tamu.edu/webpages/recommendations.html>
3. Oregon State University - [file:///C:/Users/Nellis/Desktop/OSU%20Soil%20Test%20Interpretation%20\(002\).pdf](file:///C:/Users/Nellis/Desktop/OSU%20Soil%20Test%20Interpretation%20(002).pdf)
4. TRRP Tier 1 Total Soil Combined Protective Concentration Level – 30 Acre Source Area (March 31, 2017)

#### **Results – RCRA 8 Metals, Chlorinated Pesticide, and Chlorinated Herbicide Constituents**

The following tables summarize the results of the analytical analysis for soil samples collected to characterize select environmental (RCRA 8 metals), chlorinated pesticides, and chlorinated herbicide constituents on the Wetland Area W and Wetland Area C project locations. **Due to the large suite of constituents analyzed, only detections are presented in the tables below.** For a full review of the laboratory analysis of the samples, please see the attached SATL *Laboratory Report*.

**Table 7:** Environmental (RCRA 8 metals), Chlorinated Pesticide, and Chlorinated Herbicide constituents analyzed in soils samples collected at Area W (Subgroup 1) on March 6, 2018. Results presented below correspond to the Area W Environmental 1 (WE1) Sample ID.

| Constituent | Analysis Method (Prep/Analysis) | PQL <sup>1</sup> (mg/kg) | Result (mg/kg) | Median Background (mg/kg) <sup>2</sup> | TotSoilComb <sup>3</sup> (mg/kg) |
|-------------|---------------------------------|--------------------------|----------------|--|----------------------------------|
| Arsenic     | EPA 3051A/<br>EPA 6010B         | 1.0                      | 2.95           | 5.9                                    | 330                              |
| Barium      | EPA 3051A/<br>EPA 6010B         | 1.0                      | 54.7           | 300                                    | 120,000                          |
| Chromium    | EPA 3051A/<br>EPA 6010B         | 1.0                      | 19.4           | 30                                     | 75,000                           |
| Lead        | EPA 3051A/<br>EPA 6010B         | 1.0                      | 22.3           | 15                                     | 1,600                            |
| Silver      | EPA 3051A/<br>EPA 6010B         | 0.450                    | 0.462          | --                                     | 2,300                            |

1. PQL = Practical Quantitation Limit of laboratory test method
2. Texas Specific Soil Background Concentrations (30 TAC 350.51 (m))
3. TRRP Tier 1 Total Soil Combined Protective Concentration Level – 30 Acre Source Area (March 31, 2017)

**Table 8:** Environmental (RCRA 8 metals), Chlorinated Pesticide, and Chlorinated Herbicide constituents analyzed in soils samples collected at Area W (Subgroup 2) on March 6, 2018. Results presented below correspond to the Area W Environmental 2 (WE2) Sample ID.

| Constituent | Analysis Method (Prep/Analysis) | PQL <sup>1</sup> (mg/kg) | Result (mg/kg) | Median Background (mg/kg) <sup>2</sup> | TotSoilComb <sup>3</sup> (mg/kg) |
|-------------|---------------------------------|--------------------------|----------------|--|----------------------------------|
| Arsenic     | EPA 3051A/<br>EPA 6010B         | 1.0                      | 3.01           | 5.9                                    | 330                              |
| Barium      | EPA 3051A/<br>EPA 6010B         | 1.0                      | 56.0           | 300                                    | 120,000                          |
| Chromium    | EPA 3051A/<br>EPA 6010B         | 1.0                      | 18.2           | 30                                     | 75,000                           |
| Lead        | EPA 3051A/<br>EPA 6010B         | 1.0                      | 22.2           | 15                                     | 1,600                            |

1. PQL = Practical Quantitation Limit of laboratory test method

2. Texas Specific Soil Background Concentrations (30 TAC 350.51 (m))

3. TRRP Tier 1 Total Soil Combined Protective Concentration Level – 30 Acre Source Area (March 31, 2017)

**Table 9:** Environmental (RCRA 8 metals), Chlorinated Pesticide, and Chlorinated Herbicide constituents analyzed in soils samples collected at Area C (Subgroup 1) on March 7, 2018. Results presented below correspond to the Area C Environmental 1 (CE1) Sample ID.

| Constituent | Analysis Method (Prep/Analysis) | PQL <sup>1</sup> (mg/kg) | Result (mg/kg) | Median Background (mg/kg) <sup>2</sup> | TotSoilComb <sup>3</sup> (mg/kg) |
|-------------|---------------------------------|--------------------------|----------------|--|----------------------------------|
| Arsenic     | EPA 3051A/<br>EPA 6010B         | 1.0                      | 2.85           | 5.9                                    | 330                              |
| Barium      | EPA 3051A/<br>EPA 6010B         | 1.0                      | 51.1           | 300                                    | 120,000                          |
| Chromium    | EPA 3051A/<br>EPA 6010B         | 1.0                      | 22.6           | 30                                     | 75,000                           |
| Mercury     | EPA 7471B/<br>EPA 7471A         | 0.04                     | 0.092          | 0.04                                   | 11                               |
| Lead        | EPA 3051A/<br>EPA 6010B         | 1.0                      | 21.0           | 15                                     | 1,600                            |
| Silver      | EPA 3051A/<br>EPA 6010B         | 0.450                    | 0.966          | --                                     | 2,300                            |

1. PQL = Practical Quantitation Limit of laboratory test method

2. Texas Specific Soil Background Concentrations (30 TAC 350.51 (m))

3. TRRP Tier 1 Total Soil Combined Protective Concentration Level – 30 Acre Source Area (March 31, 2017)

**Table 10:** Environmental (RCRA 8 metals), Chlorinated Pesticide, and Chlorinated Herbicide constituents analyzed in soils samples collected at Area C (Subgroup 2) on March 7, 2018. Results presented below correspond to the Area C Environmental 2 (CE2) Sample ID.

| Constituent | Analysis Method (Prep/Analysis) | PQL <sup>1</sup> (mg/kg) | Result (mg/kg) | Median Background (mg/kg) <sup>2</sup> | TotSoilComb <sup>3</sup> (mg/kg) |
|-------------|---------------------------------|--------------------------|----------------|--|----------------------------------|
| Arsenic     | EPA 3051A/<br>EPA 6010B         | 1.0                      | 2.93           | 5.9                                    | 330                              |
| Barium      | EPA 3051A/<br>EPA 6010B         | 1.0                      | 50.6           | 300                                    | 120,000                          |
| Chromium    | EPA 3051A/<br>EPA 6010B         | 1.0                      | 21.9           | 30                                     | 75,000                           |
| Mercury     | EPA 7471B/<br>EPA 7471A         | 0.040                    | 0.057          | 0.04                                   | 11                               |
| Lead        | EPA 3051A/<br>EPA 6010B         | 1.0                      | 21.4           | 15                                     | 1,600                            |
| Silver      | EPA 3051A/<br>EPA 6010B         | 0.450                    | 0.950          | --                                     | 2,300                            |

1. QL = Practical Quantitation Limit of laboratory test method

2. Texas Specific Soil Background Concentrations (30 TAC 350.51 (m))

3. TRRP Tier 1 Total Soil Combined Protective Concentration Level – 30 Acre Source Area (March 31, 2017)

No chlorinated pesticide or herbicide constituents were detected in any of the submitted samples.

## Discussion and Recommendations

The Texas Risk Reduction Program (TRRP) rule (30 TAC Chapter 350), which was adopted in September 1999, established requirements for corrective actions at sites where a release of a chemical of concern (COC) has impacted the environment. The TRRP rules address the investigation of contaminated sites, provide guidance for reporting release of COCs to the Texas Commission on Environmental Quality (TCEQ), and establish appropriate standards for response actions initiated by the discovery of contamination or a COC release. The primary purpose of the TRRP rules is to determine which releases of COCs threaten water resources (either ground or surface water) and which releases require a response action or institutional remedy. In doing so, however, the TRRP rules specifically exclude release determinations for those COCs where materials were applied or used as intended such as the lawful application of agricultural chemicals or pesticides.

Although the historical agricultural uses of Area W and Area C appear exempt from the TRRP release determination standards, the guidance established by the rule is useful in quantifying the threat to human health and safety exhibited by potential use of agricultural chemicals at the sites. To this end, the TRRP rules outline specific protective concentration levels (PCLs) for a wide range of COCs. There are three tiers of human health-based PCLs, which are based on receptor and exposure pathways in consideration of the land use classification, groundwater classification, distribution of COCs in impacted media, and presence of potential ecological receptors. Tier 1 PCLs represent the most commonly used PCLs in determining whether or not a cleanup response is warranted. Essentially, the lowest of a number of applicable human health-based PCLs (i.e. ingestion, dermal contact, inhalation, etc.) are compared to the quantity of a given COC detected during laboratory analysis of a media sample (i.e. soil, surface water, groundwater, etc.). If

the COC concentration in the media sample exceeds the lowest of the applicable PCLs, a response action in the form of a remediation event or institutional control is generally warranted.

The TRRP PCLs selected for comparison of sample results for Area W and Area C are the <sup>Tot</sup>Soil<sub>Comb</sub> (Total Soil Combined) for 30-acre commercial/industrial source areas (*2017 PCL Tables – Table 5 Tier 1 Commercial/Industrial Total Soil Combined PCLs, Last Revised March 31, 2017*). These PCLs represent the surface soil protective concentration level for the combined soil pathways of ingestion, dermal contact, inhalation of volatiles and particulates, and ingestion of aboveground or below ground vegetables. These PCLs were selected based on: 1) the property uses as commercial, non-residential properties, 2) the >0.5-acre source areas of the potential release zones, 3) the absence of any groundwater encountered during the investigation, and 4) the consideration of multiple exposure pathways from COCs in the soil (dermal contact, ingestion, particulates, etc.).

Based on a review of the TRRP Tier 1 PCL tables for 30-acre commercial source areas, none of the detected constituents in any collected sample exceeded the selected PCLs. Regarding agricultural constituents, total Kjeldahl nitrogen and nitrates appear low, and phosphorous levels appear high with respect to use for crops.

If you have any questions or require any additional information, please don't hesitate to contact AEI at (210) 858-6873. We sincerely appreciate the opportunity to work with you on this project and look forward to working with you in the future.

Sincerely,



Brian A. Gottschalk  
Senior Environmental Scientist



Lynn M. Kitchen, Ph.D.  
Principal Scientist

Attachments



March 16, 2018

**Brian Gottschalk**

Adams Environmental, Inc  
12018 Las Nubes Street  
San Antonio, TX 78233

**SATL Report No.: 1803095**

**RE: Mitchell Lake Wetlands**

**Project Number:** Wand C

Dear Brian Gottschalk

SATL received 10 Sample(s) on 03/07/2018 for analyses identified on the chain of custody. The analyses were performed using methods indicated on the laboratory report. Any deviations observed at sample receiving are noted on the Sample Receipt Checklist and/or Chain of Custody documents attached as part of this analytical report.

There were no problems in the sample analyses unless otherwise noted. Sample data and associated QC are presented in the attached laboratory report. QC sample data were within laboratory acceptance limits except where noted on the report.

Sincerely,

For San Antonio Testing Laboratory, Inc.

Richard Hawk,  
General Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



# LABORATORY REPORT



NELAC Cert. No.: T104704360-17-17

Adams Environmental, Inc  
12018 Las Nubes Street  
San Antonio TX, 78233

Additional Notes:

Project: Mitchell Lake Wetlands  
Project Number: Wand C  
Project Manager: Brian Gottschalk

**Reported:**  
03/16/18 17:11  
**Received:**  
03/07/18 14:33

**Report No. 1803095**

## SAMPLE SUMMARY

Total Samples received in this work order: **10**

The following samples were requested for analysis as per the CoC. Any re-runs or re-analyses requested are identified as such.

| Sample ID                   | Laboratory ID | Matrix | Sampling Method | Date Sampled   | Date Received  |
|-----------------------------|---------------|--------|-----------------|----------------|----------------|
| WE1, Area W Environmental 1 | 1803095-01    | Solid  | Composite       | 03/06/18 13:50 | 03/07/18 14:33 |
| WE2, Area W Environmental 2 | 1803095-02    | Solid  | Composite       | 03/06/18 14:20 | 03/07/18 14:33 |
| WA1, Area W Agricultural 1  | 1803095-03    | Solid  | Composite       | 03/06/18 13:50 | 03/07/18 14:33 |
| WA2, Area W Agricultural 2  | 1803095-04    | Solid  | Composite       | 03/06/18 15:10 | 03/07/18 14:33 |
| WA3, Area W Agricultural 3  | 1803095-05    | Solid  | Composite       | 03/06/18 15:10 | 03/07/18 14:33 |
| CE1, Area C Environmental 1 | 1803095-06    | Solid  | Composite       | 03/06/18 10:30 | 03/07/18 14:33 |
| CE2, Area C Environmental 2 | 1803095-07    | Solid  | Composite       | 03/06/18 11:30 | 03/07/18 14:33 |
| CA1, Area C Agricultural 1  | 1803095-08    | Solid  | Composite       | 03/06/18 10:30 | 03/07/18 14:33 |
| CA2, Area C Agricultural 2  | 1803095-09    | Solid  | Composite       | 03/06/18 12:30 | 03/07/18 14:33 |
| CA3, Area C Agricultural 3  | 1803095-10    | Solid  | Composite       | 03/06/18 12:30 | 03/07/18 14:33 |

## Notes

All quality control samples and checks are within acceptance limits unless otherwise indicated.

Test results pertain only to those items tested.

All samples were in good condition when received by the laboratory unless otherwise noted.



# LABORATORY REPORT



NELAC Cert. No.: T104704360-17-17

Adams Environmental, Inc  
12018 Las Nubes Street  
San Antonio TX, 78233

Project: Mitchell Lake Wetlands  
Project Number: Wand C  
Project Manager: Brian Gottschalk

Additional Notes:

**Reported:**  
03/16/18 17:11  
**Received:**  
03/07/18 14:33

**Report No. 1803095**

**Sample ID #:** WE1, Area W Environmental 1

**Sampling Method:** Composite

**Lab Sample ID #:** 1803095-01

**Sample Matrix:** Solid

**Date/Time Collected:** 03/06/18 13:50

| Analyte                                 | Result | Units     | PQL   | Prep Method | Batch   | Analyzed       | Method    | Analyst | Notes |
|---|--------|-----------|-------|-------------|---------|----------------|-----------|---------|-------|
| <b>General Chemistry</b>                |        |           |       |             |         |                |           |         |       |
| % Solids                                | 82.4   | % by Wt.  | 1.00  | EPA 3540C   | B811055 | 03/13/18 15:57 | EPA 3540C | ME      |       |
| <b>Total Metals</b>                     |        |           |       |             |         |                |           |         |       |
| Arsenic *                               | 2.95   | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 16:00 | EPA 6010B | XE      |       |
| Barium *                                | 54.7   | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 16:00 | EPA 6010B | XE      |       |
| Cadmium *                               | <0.500 | mg/kg dry | 0.500 | EPA 3051A   | B811050 | 03/14/18 16:00 | EPA 6010B | XE      |       |
| Chromium *                              | 19.4   | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 16:00 | EPA 6010B | XE      |       |
| Mercury *                               | <0.040 | mg/kg dry | 0.040 | EPA 7471B   | B811008 | 03/12/18 15:45 | EPA 7471A | ME      |       |
| Lead *                                  | 22.3   | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 16:00 | EPA 6010B | XE      |       |
| Selenium *                              | <1.00  | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 16:00 | EPA 6010B | XE      |       |
| Silver *                                | 0.462  | mg/kg dry | 0.450 | EPA 3051A   | B811050 | 03/14/18 16:00 | EPA 6010B | XE      |       |
| <b>Chlorinated Pesticides by GC/ECD</b> |        |           |       |             |         |                |           |         |       |
| alpha-BHC *                             | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| gamma-BHC (Lindane) *                   | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| beta-BHC *                              | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| delta-BHC *                             | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| Heptachlor *                            | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| Aldrin *                                | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| Heptachlor Epoxide *                    | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| gamma-Chlordane *                       | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| alpha-Chlordane *                       | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| Endosulfan I *                          | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| 4,4'-DDE *                              | <0.005 | mg/kg     | 0.005 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| Dieldrin *                              | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| Endrin *                                | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| 4,4'-DDD *                              | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| Endosulfan II *                         | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| 4,4'-DDT *                              | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| Endrin Aldehyde *                       | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| Endosulfan Sulfate *                    | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| Methoxychlor *                          | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| Endrin Ketone *                         | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| Toxaphene *                             | <0.05  | mg/kg     | 0.05  | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |
| Chlordane *                             | <0.05  | mg/kg     | 0.05  | EPA 3550B   | B810117 | 03/08/18 17:54 | EPA 8081A | REB     |       |

Surrogate: Decachlorobiphenyl

115 % 14.8-141

EPA 3550B B810117

03/08/18 17:54

EPA 8081A REB



# LABORATORY REPORT



NELAC Cert. No.: T104704360-17-17

Adams Environmental, Inc  
12018 Las Nubes Street  
San Antonio TX, 78233

Project: Mitchell Lake Wetlands  
Project Number: Wand C  
Project Manager: Brian Gottschalk

Additional Notes:

**Reported:**  
03/16/18 17:11  
**Received:**  
03/07/18 14:33

**Report No. 1803095**

**Sample ID #:** WE2, Area W Environmental 2

**Sampling Method:** Composite

**Lab Sample ID #:** 1803095-02

**Sample Matrix:** Solid

**Date/Time Collected:** 03/06/18 14:20

| Analyte                                 | Result | Units     | PQL   | Prep Method | Batch   | Analyzed       | Method    | Analyst | Notes |
|---|--------|-----------|-------|-------------|---------|----------------|-----------|---------|-------|
| <b>General Chemistry</b>                |        |           |       |             |         |                |           |         |       |
| % Solids                                | 81.7   | % by Wt.  | 1.00  | EPA 3540C   | B811055 | 03/13/18 15:57 | EPA 3540C | ME      |       |
| <b>Total Metals</b>                     |        |           |       |             |         |                |           |         |       |
| Arsenic *                               | 3.01   | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 16:18 | EPA 6010B | XE      |       |
| Barium *                                | 56.0   | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 16:18 | EPA 6010B | XE      |       |
| Cadmium *                               | <0.500 | mg/kg dry | 0.500 | EPA 3051A   | B811050 | 03/14/18 16:18 | EPA 6010B | XE      |       |
| Chromium *                              | 18.2   | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 16:18 | EPA 6010B | XE      |       |
| Mercury *                               | <0.040 | mg/kg dry | 0.040 | EPA 7471B   | B811008 | 03/12/18 15:47 | EPA 7471A | ME      |       |
| Lead *                                  | 22.2   | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 16:18 | EPA 6010B | XE      |       |
| Selenium *                              | <1.00  | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 16:18 | EPA 6010B | XE      |       |
| Silver *                                | <0.450 | mg/kg dry | 0.450 | EPA 3051A   | B811050 | 03/14/18 16:18 | EPA 6010B | XE      |       |
| <b>Chlorinated Pesticides by GC/ECD</b> |        |           |       |             |         |                |           |         |       |
| alpha-BHC *                             | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| gamma-BHC (Lindane) *                   | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| beta-BHC *                              | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| delta-BHC *                             | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| Heptachlor *                            | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| Aldrin *                                | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| Heptachlor Epoxide *                    | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| gamma-Chlordane *                       | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| alpha-Chlordane *                       | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| Endosulfan I *                          | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| 4,4'-DDE *                              | <0.005 | mg/kg     | 0.005 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| Dieldrin *                              | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| Endrin *                                | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| 4,4'-DDD *                              | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| Endosulfan II *                         | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| 4,4'-DDT *                              | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| Endrin Aldehyde *                       | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| Endosulfan Sulfate *                    | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| Methoxychlor *                          | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| Endrin Ketone *                         | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| Toxaphene *                             | <0.05  | mg/kg     | 0.05  | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |
| Chlordane *                             | <0.05  | mg/kg     | 0.05  | EPA 3550B   | B810117 | 03/08/18 18:09 | EPA 8081A | REB     |       |

Surrogate: Decachlorobiphenyl

91 % 14.8-141

EPA 3550B

B810117

03/08/18 18:09

EPA 8081A

REB



# LABORATORY REPORT



NELAC Cert. No.: T104704360-17-17

Adams Environmental, Inc  
12018 Las Nubes Street  
San Antonio TX, 78233

Project: Mitchell Lake Wetlands  
Project Number: Wand C  
Project Manager: Brian Gottschalk

Additional Notes:

**Reported:**  
03/16/18 17:11  
**Received:**  
03/07/18 14:33

**Report No. 1803095**

**Sample ID #:** WA1, Area W Agricultural 1

**Sampling Method:** Composite

**Lab Sample ID #:** 1803095-03

**Sample Matrix:** Solid

**Date/Time Collected:** 03/06/18 13:50

| Analyte                             | Result | Units     | PQL  | Prep Method | Batch   | Analyzed       | Method    | Analyst | Notes |
|-------------------------------------|--------|-----------|------|-------------|---------|----------------|-----------|---------|-------|
| <b>General Chemistry</b>            |        |           |      |             |         |                |           |         |       |
| % Solids                            | 82.5   | % by Wt.  | 1.00 | EPA 3540C   | B811055 | 03/13/18 15:57 | EPA 3540C | ME      |       |
| Total Kjeldahl Nitrogen             | 969    | mg/kg     | 1.00 |             | B811138 | 03/16/18 10:42 | EPA 351.3 | JL      |       |
| Total Nitrogen                      | 970    | mg/kg     | 1.20 | [CALC]      | [CALC]  | 03/16/18 10:42 | CALC      | JL      |       |
| <b>Anions by Ion Chromatography</b> |        |           |      |             |         |                |           |         |       |
| Nitrite as N *                      | <0.10  | mg/kg     | 0.10 | EPA 300.0   | B811099 | 03/14/18 10:16 | EPA 300.0 | JL      |       |
| Nitrate as N *                      | 1.37   | mg/kg     | 0.10 | EPA 300.0   | B811099 | 03/14/18 10:16 | EPA 300.0 | JL      |       |
| <b>Total Metals</b>                 |        |           |      |             |         |                |           |         |       |
| Phosphorus *                        | 1150   | mg/kg dry | 1.00 | EPA 3051A   | B811050 | 03/14/18 16:24 | EPA 6010B | XE      |       |



# LABORATORY REPORT



NELAC Cert. No.: T104704360-17-17

Adams Environmental, Inc  
12018 Las Nubes Street  
San Antonio TX, 78233

Project: Mitchell Lake Wetlands  
Project Number: Wand C  
Project Manager: Brian Gottschalk

Additional Notes:

**Reported:**  
03/16/18 17:11  
**Received:**  
03/07/18 14:33

**Report No. 1803095**

**Sample ID #:** WA2, Area W Agricultural 2

**Sampling Method:** Composite

**Lab Sample ID #:** 1803095-04

**Sample Matrix:** Solid

**Date/Time Collected:** 03/06/18 15:10

| Analyte                             | Result | Units     | PQL  | Prep Method | Batch   | Analyzed       | Method    | Analyst | Notes |
|-------------------------------------|--------|-----------|------|-------------|---------|----------------|-----------|---------|-------|
| <b>General Chemistry</b>            |        |           |      |             |         |                |           |         |       |
| % Solids                            | 83.6   | % by Wt.  | 1.00 | EPA 3540C   | B811055 | 03/13/18 15:57 | EPA 3540C | ME      |       |
| Total Kjeldahl Nitrogen             | 1120   | mg/kg     | 1.00 |             | B811138 | 03/16/18 10:42 | EPA 351.3 | JL      |       |
| Total Nitrogen                      | 1120   | mg/kg     | 1.20 | [CALC]      | [CALC]  | 03/16/18 10:42 | CALC      | JL      |       |
| <b>Anions by Ion Chromatography</b> |        |           |      |             |         |                |           |         |       |
| Nitrite as N *                      | <0.10  | mg/kg     | 0.10 | EPA 300.0   | B811099 | 03/14/18 10:33 | EPA 300.0 | JL      |       |
| Nitrate as N *                      | 0.63   | mg/kg     | 0.10 | EPA 300.0   | B811099 | 03/14/18 10:33 | EPA 300.0 | JL      |       |
| <b>Total Metals</b>                 |        |           |      |             |         |                |           |         |       |
| Phosphorus *                        | 1200   | mg/kg dry | 1.00 | EPA 3051A   | B811050 | 03/14/18 16:30 | EPA 6010B | XE      |       |



# LABORATORY REPORT



NELAC Cert. No.: T104704360-17-17

Adams Environmental, Inc  
12018 Las Nubes Street  
San Antonio TX, 78233

Project: Mitchell Lake Wetlands  
Project Number: Wand C  
Project Manager: Brian Gottschalk

Additional Notes:

**Reported:**  
03/16/18 17:11  
**Received:**  
03/07/18 14:33

**Report No. 1803095**

**Sample ID #:** WA3, Area W Agricultural 3

**Sampling Method:** Composite

**Lab Sample ID #:** 1803095-05

**Sample Matrix:** Solid

**Date/Time Collected:** 03/06/18 15:10

| Analyte                             | Result | Units     | PQL  | Prep Method | Batch   | Analyzed       | Method    | Analyst | Notes |
|-------------------------------------|--------|-----------|------|-------------|---------|----------------|-----------|---------|-------|
| <b>General Chemistry</b>            |        |           |      |             |         |                |           |         |       |
| % Solids                            | 81.1   | % by Wt.  | 1.00 | EPA 3540C   | B811055 | 03/13/18 15:57 | EPA 3540C | ME      |       |
| Total Kjeldahl Nitrogen             | 1270   | mg/kg     | 1.00 |             | B811138 | 03/16/18 10:42 | EPA 351.3 | JL      |       |
| Total Nitrogen                      | 1270   | mg/kg     | 1.20 | [CALC]      | [CALC]  | 03/16/18 10:42 | CALC      | JL      |       |
| <b>Anions by Ion Chromatography</b> |        |           |      |             |         |                |           |         |       |
| Nitrite as N *                      | <0.10  | mg/kg     | 0.10 | EPA 300.0   | B811099 | 03/14/18 10:51 | EPA 300.0 | JL      |       |
| Nitrate as N *                      | 1.40   | mg/kg     | 0.10 | EPA 300.0   | B811099 | 03/14/18 10:51 | EPA 300.0 | JL      |       |
| <b>Total Metals</b>                 |        |           |      |             |         |                |           |         |       |
| Phosphorus *                        | 1160   | mg/kg dry | 1.00 | EPA 3051A   | B811050 | 03/14/18 16:36 | EPA 6010B | XE      |       |



# LABORATORY REPORT



NELAC Cert. No.: T104704360-17-17

Adams Environmental, Inc  
12018 Las Nubes Street  
San Antonio TX, 78233

Project: Mitchell Lake Wetlands  
Project Number: Wand C  
Project Manager: Brian Gottschalk

Additional Notes:

**Reported:**  
03/16/18 17:11  
**Received:**  
03/07/18 14:33

**Report No. 1803095**

**Sample ID #: CE1, Area C Environmental 1**

**Sampling Method: Composite**

**Lab Sample ID #: 1803095-06**

**Sample Matrix: Solid**

**Date/Time Collected: 03/06/18 10:30**

| Analyte                                 | Result | Units     | PQL   | Prep Method | Batch   | Analyzed       | Method    | Analyst | Notes |
|---|--------|-----------|-------|-------------|---------|----------------|-----------|---------|-------|
| <b>General Chemistry</b>                |        |           |       |             |         |                |           |         |       |
| % Solids                                | 85.3   | % by Wt.  | 1.00  | EPA 3540C   | B811055 | 03/13/18 15:57 | EPA 3540C | ME      |       |
| <b>Total Metals</b>                     |        |           |       |             |         |                |           |         |       |
| Arsenic *                               | 2.85   | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 16:59 | EPA 6010B | XE      |       |
| Barium *                                | 51.1   | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 16:59 | EPA 6010B | XE      |       |
| Cadmium *                               | <0.500 | mg/kg dry | 0.500 | EPA 3051A   | B811050 | 03/14/18 16:59 | EPA 6010B | XE      |       |
| Chromium *                              | 22.6   | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 16:59 | EPA 6010B | XE      |       |
| Mercury *                               | 0.092  | mg/kg dry | 0.040 | EPA 7471B   | B811008 | 03/12/18 15:49 | EPA 7471A | ME      |       |
| Lead *                                  | 21.0   | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 16:59 | EPA 6010B | XE      |       |
| Selenium *                              | <1.00  | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 16:59 | EPA 6010B | XE      |       |
| Silver *                                | 0.966  | mg/kg dry | 0.450 | EPA 3051A   | B811050 | 03/14/18 16:59 | EPA 6010B | XE      |       |
| <b>Chlorinated Pesticides by GC/ECD</b> |        |           |       |             |         |                |           |         |       |
| alpha-BHC *                             | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| gamma-BHC (Lindane) *                   | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| beta-BHC *                              | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| delta-BHC *                             | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| Heptachlor *                            | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| Aldrin *                                | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| Heptachlor Epoxide *                    | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| gamma-Chlordane *                       | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| alpha-Chlordane *                       | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| Endosulfan I *                          | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| 4,4'-DDE *                              | <0.005 | mg/kg     | 0.005 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| Dieldrin *                              | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| Endrin *                                | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| 4,4'-DDD *                              | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| Endosulfan II *                         | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| 4,4'-DDT *                              | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| Endrin Aldehyde *                       | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| Endosulfan Sulfate *                    | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| Methoxychlor *                          | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| Endrin Ketone *                         | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| Toxaphene *                             | <0.05  | mg/kg     | 0.05  | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |
| Chlordane *                             | <0.05  | mg/kg     | 0.05  | EPA 3550B   | B810117 | 03/08/18 18:24 | EPA 8081A | REB     |       |

Surrogate: Decachlorobiphenyl

127 % 14.8-141

EPA 3550B

B810117

03/08/18 18:24

EPA 8081A

REB



# LABORATORY REPORT



NELAC Cert. No.: T104704360-17-17

Adams Environmental, Inc  
12018 Las Nubes Street  
San Antonio TX, 78233

Project: Mitchell Lake Wetlands  
Project Number: Wand C  
Project Manager: Brian Gottschalk

Additional Notes:

**Reported:**  
03/16/18 17:11  
**Received:**  
03/07/18 14:33

**Report No. 1803095**

**Sample ID #:** CE2, Area C Environmental 2

**Sampling Method:** Composite

**Lab Sample ID #:** 1803095-07

**Sample Matrix:** Solid

**Date/Time Collected:** 03/06/18 11:30

| Analyte                                 | Result | Units     | PQL   | Prep Method | Batch   | Analyzed       | Method    | Analyst | Notes |
|---|--------|-----------|-------|-------------|---------|----------------|-----------|---------|-------|
| <b>General Chemistry</b>                |        |           |       |             |         |                |           |         |       |
| % Solids                                | 84.7   | % by Wt.  | 1.00  | EPA 3540C   | B811055 | 03/13/18 15:57 | EPA 3540C | ME      |       |
| <b>Total Metals</b>                     |        |           |       |             |         |                |           |         |       |
| Arsenic *                               | 2.93   | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 17:05 | EPA 6010B | XE      |       |
| Barium *                                | 50.6   | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 17:05 | EPA 6010B | XE      |       |
| Cadmium *                               | <0.500 | mg/kg dry | 0.500 | EPA 3051A   | B811050 | 03/14/18 17:05 | EPA 6010B | XE      |       |
| Chromium *                              | 21.9   | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 17:05 | EPA 6010B | XE      |       |
| Mercury *                               | 0.057  | mg/kg dry | 0.040 | EPA 7471B   | B811008 | 03/12/18 15:51 | EPA 7471A | ME      |       |
| Lead *                                  | 21.4   | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 17:05 | EPA 6010B | XE      |       |
| Selenium *                              | <1.00  | mg/kg dry | 1.00  | EPA 3051A   | B811050 | 03/14/18 17:05 | EPA 6010B | XE      |       |
| Silver *                                | 0.950  | mg/kg dry | 0.450 | EPA 3051A   | B811050 | 03/14/18 17:05 | EPA 6010B | XE      |       |
| <b>Chlorinated Pesticides by GC/ECD</b> |        |           |       |             |         |                |           |         |       |
| alpha-BHC *                             | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| gamma-BHC (Lindane) *                   | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| beta-BHC *                              | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| delta-BHC *                             | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| Heptachlor *                            | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| Aldrin *                                | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| Heptachlor Epoxide *                    | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| gamma-Chlordane *                       | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| alpha-Chlordane *                       | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| Endosulfan I *                          | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| 4,4'-DDE *                              | <0.005 | mg/kg     | 0.005 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| Dieldrin *                              | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| Endrin *                                | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| 4,4'-DDD *                              | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| Endosulfan II *                         | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| 4,4'-DDT *                              | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| Endrin Aldehyde *                       | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| Endosulfan Sulfate *                    | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| Methoxychlor *                          | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| Endrin Ketone *                         | <0.002 | mg/kg     | 0.002 | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| Toxaphene *                             | <0.05  | mg/kg     | 0.05  | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |
| Chlordane *                             | <0.05  | mg/kg     | 0.05  | EPA 3550B   | B810117 | 03/08/18 18:39 | EPA 8081A | REB     |       |

Surrogate: Decachlorobiphenyl      114 %      14.8-141      EPA 3550B      B810117      03/08/18 18:39      EPA 8081A      REB



# LABORATORY REPORT



NELAC Cert. No.: T104704360-17-17

Adams Environmental, Inc  
12018 Las Nubes Street  
San Antonio TX, 78233

Project: Mitchell Lake Wetlands  
Project Number: Wand C  
Project Manager: Brian Gottschalk

Additional Notes:

**Reported:**  
03/16/18 17:11  
**Received:**  
03/07/18 14:33

**Report No. 1803095**

**Sample ID #:** CA1, Area C Agricultural 1

**Sampling Method:** Composite

**Lab Sample ID #:** 1803095-08

**Sample Matrix:** Solid

**Date/Time Collected:** 03/06/18 10:30

| Analyte                             | Result | Units     | PQL  | Prep Method | Batch   | Analyzed       | Method    | Analyst | Notes |
|-------------------------------------|--------|-----------|------|-------------|---------|----------------|-----------|---------|-------|
| <b>General Chemistry</b>            |        |           |      |             |         |                |           |         |       |
| % Solids                            | 85.5   | % by Wt.  | 1.00 | EPA 3540C   | B811055 | 03/13/18 15:57 | EPA 3540C | ME      |       |
| Total Kjeldahl Nitrogen             | 733    | mg/kg     | 1.00 |             | B811138 | 03/16/18 10:42 | EPA 351.3 | JL      |       |
| Total Nitrogen                      | 734    | mg/kg     | 1.20 | [CALC]      | [CALC]  | 03/16/18 10:42 | CALC      | JL      |       |
| <b>Anions by Ion Chromatography</b> |        |           |      |             |         |                |           |         |       |
| Nitrite as N *                      | <0.10  | mg/kg     | 0.10 | EPA 300.0   | B811099 | 03/14/18 11:08 | EPA 300.0 | JL      |       |
| Nitrate as N *                      | 1.40   | mg/kg     | 0.10 | EPA 300.0   | B811099 | 03/14/18 11:08 | EPA 300.0 | JL      |       |
| <b>Total Metals</b>                 |        |           |      |             |         |                |           |         |       |
| Phosphorus *                        | 929    | mg/kg dry | 1.00 | EPA 3051A   | B811050 | 03/14/18 17:11 | EPA 6010B | XE      |       |



# LABORATORY REPORT



NELAC Cert. No.: T104704360-17-17

Adams Environmental, Inc  
12018 Las Nubes Street  
San Antonio TX, 78233

Project: Mitchell Lake Wetlands  
Project Number: Wand C  
Project Manager: Brian Gottschalk

Additional Notes:

**Reported:**  
03/16/18 17:11  
**Received:**  
03/07/18 14:33

**Report No. 1803095**

**Sample ID #:** CA2, Area C Agricultural 2

**Sampling Method:** Composite

**Lab Sample ID #:** 1803095-09

**Sample Matrix:** Solid

**Date/Time Collected:** 03/06/18 12:30

| Analyte                             | Result | Units     | PQL  | Prep Method | Batch   | Analyzed       | Method    | Analyst | Notes |
|-------------------------------------|--------|-----------|------|-------------|---------|----------------|-----------|---------|-------|
| <b>General Chemistry</b>            |        |           |      |             |         |                |           |         |       |
| % Solids                            | 86.9   | % by Wt.  | 1.00 | EPA 3540C   | B811055 | 03/13/18 15:57 | EPA 3540C | ME      |       |
| Total Kjeldahl Nitrogen             | 1040   | mg/kg     | 1.00 |             | B811138 | 03/16/18 10:42 | EPA 351.3 | JL      |       |
| Total Nitrogen                      | 1040   | mg/kg     | 1.20 | [CALC]      | [CALC]  | 03/16/18 10:42 | CALC      | JL      |       |
| <b>Anions by Ion Chromatography</b> |        |           |      |             |         |                |           |         |       |
| Nitrite as N *                      | <0.10  | mg/kg     | 0.10 | EPA 300.0   | B811099 | 03/14/18 11:25 | EPA 300.0 | JL      |       |
| Nitrate as N *                      | 1.16   | mg/kg     | 0.10 | EPA 300.0   | B811099 | 03/14/18 11:25 | EPA 300.0 | JL      |       |
| <b>Total Metals</b>                 |        |           |      |             |         |                |           |         |       |
| Phosphorus *                        | 952    | mg/kg dry | 1.00 | EPA 3051A   | B811050 | 03/14/18 17:17 | EPA 6010B | XE      |       |



# LABORATORY REPORT



NELAC Cert. No.: T104704360-17-17

Adams Environmental, Inc  
12018 Las Nubes Street  
San Antonio TX, 78233

Project: Mitchell Lake Wetlands  
Project Number: Wand C  
Project Manager: Brian Gottschalk

Additional Notes:

**Reported:**  
03/16/18 17:11  
**Received:**  
03/07/18 14:33

**Report No. 1803095**

**Sample ID #:** CA3, Area C Agricultural 3

**Sampling Method:** Composite

**Lab Sample ID #:** 1803095-10

**Sample Matrix:** Solid

**Date/Time Collected:** 03/06/18 12:30

| Analyte                             | Result | Units     | PQL  | Prep Method | Batch   | Analyzed       | Method    | Analyst | Notes |
|-------------------------------------|--------|-----------|------|-------------|---------|----------------|-----------|---------|-------|
| <b>General Chemistry</b>            |        |           |      |             |         |                |           |         |       |
| % Solids                            | 85.4   | % by Wt.  | 1.00 | EPA 3540C   | B811055 | 03/13/18 15:57 | EPA 3540C | ME      |       |
| Total Kjeldahl Nitrogen             | 902    | mg/kg     | 1.00 |             | B811138 | 03/16/18 10:42 | EPA 351.3 | JL      |       |
| Total Nitrogen                      | 903    | mg/kg     | 1.20 | [CALC]      | [CALC]  | 03/16/18 10:42 | CALC      | JL      |       |
| <b>Anions by Ion Chromatography</b> |        |           |      |             |         |                |           |         |       |
| Nitrite as N *                      | <0.10  | mg/kg     | 0.10 | EPA 300.0   | B811099 | 03/14/18 11:43 | EPA 300.0 | JL      |       |
| Nitrate as N *                      | 0.81   | mg/kg     | 0.10 | EPA 300.0   | B811099 | 03/14/18 11:43 | EPA 300.0 | JL      |       |
| <b>Total Metals</b>                 |        |           |      |             |         |                |           |         |       |
| Phosphorus *                        | 876    | mg/kg dry | 1.00 | EPA 3051A   | B811050 | 03/14/18 17:23 | EPA 6010B | XE      |       |



# LABORATORY REPORT



NELAC Cert. No.: T104704360-17-17

Adams Environmental, Inc  
12018 Las Nubes Street  
San Antonio TX, 78233

Additional Notes:

Project: Mitchell Lake Wetlands  
Project Number: Wand C  
Project Manager: Brian Gottschalk

**Reported:**  
03/16/18 17:11  
**Received:**  
03/07/18 14:33

**Report No. 1803095**

## General Chemistry - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|

### Batch B811138 - NO PREP

| Blank (B811138-BLK1)       |       |      |       | Prepared: 03/15/18 09:44 Analyzed: 03/16/18 10:42 |   |        |        |    |
|----------------------------|-------|------|-------|---|---|--------|--------|----|
| Total Kjeldahl Nitrogen    | <1.00 | 1.00 | mg/kg |   |   |        |        |    |
| LCS (B811138-BS1)          |       |      |       |   | Prepared: 03/15/18 09:44 Analyzed: 03/16/18 10:42 |        |        |    |
| Total Kjeldahl Nitrogen    | 196   | 1.00 | mg/kg | 200   | 98  | 80-120 |        |    |
| LCS Dup (B811138-BSD1)     |       |      |       |   | Prepared: 03/15/18 09:44 Analyzed: 03/16/18 10:42 |        |        |    |
| Total Kjeldahl Nitrogen    | 196   | 1.00 | mg/kg | 200   | 98  | 80-120 | 0      | 20 |
| Duplicate (B811138-DUP1)   |       |      |       | Source: 1803095-03                                | Prepared: 03/15/18 09:44 Analyzed: 03/16/18 10:42 |        |        |    |
| Total Kjeldahl Nitrogen    | 860   | 1.00 | mg/kg |   | 969   |        | 12     | 20 |
| Matrix Spike (B811138-MS1) |       |      |       | Source: 1803095-03                                | Prepared: 03/15/18 09:44 Analyzed: 03/16/18 10:42 |        |        |    |
| Total Kjeldahl Nitrogen    | 1160  | 1.00 | mg/kg | 200   | 969   | 96     | 80-120 |    |

## Anions by Ion Chromatography - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|

### Batch B811099 - EPA 300.0

| Blank (B811099-BLK1)       |       |      |       | Prepared: 03/13/18 17:00 Analyzed: 03/14/18 09:24 |   |        |        |    |
|----------------------------|-------|------|-------|---|---|--------|--------|----|
| Nitrite as N               | <0.10 | 0.10 | mg/kg |   |   |        |        |    |
| Nitrate as N               | <0.10 | 0.10 | mg/kg |   |   |        |        |    |
| LCS (B811099-BS1)          |       |      |       |   | Prepared: 03/13/18 17:00 Analyzed: 03/14/18 09:41 |        |        |    |
| Nitrite as N               | 46.2  | 0.10 | mg/kg | 50.0  | 92  | 90-110 |        |    |
| Nitrate as N               | 54.9  | 0.10 | mg/kg | 50.0  | 110   | 90-110 |        |    |
| LCS Dup (B811099-BSD1)     |       |      |       |   | Prepared: 03/13/18 17:00 Analyzed: 03/14/18 09:59 |        |        |    |
| Nitrite as N               | 46.2  | 0.10 | mg/kg | 50.0  | 92  | 90-110 | 0.06   | 30 |
| Nitrate as N               | 54.7  | 0.10 | mg/kg | 50.0  | 109   | 90-110 | 0.3    | 30 |
| Duplicate (B811099-DUP1)   |       |      |       | Source: 1803095-10                                | Prepared: 03/13/18 17:00 Analyzed: 03/14/18 12:00 |        |        |    |
| Nitrite as N               | <0.10 | 0.10 | mg/kg |   | <0.10   |        |        | 20 |
| Nitrate as N               | 0.768 | 0.10 | mg/kg |   | 0.808   |        | 5      | 20 |
| Matrix Spike (B811099-MS1) |       |      |       | Source: 1803095-10                                | Prepared: 03/13/18 17:00 Analyzed: 03/14/18 12:35 |        |        |    |
| Nitrite as N               | 49.2  | 0.10 | mg/kg | 50.0  | <0.10   | 98     | 90-110 |    |



# LABORATORY REPORT



NELAC Cert. No.: T104704360-17-17

Adams Environmental, Inc  
12018 Las Nubes Street  
San Antonio TX, 78233

Additional Notes:

Project: Mitchell Lake Wetlands  
Project Number: Wand C  
Project Manager: Brian Gottschalk

**Reported:**  
03/16/18 17:11  
**Received:**  
03/07/18 14:33

**Report No. 1803095**

## Anions by Ion Chromatography - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|

### Batch B811099 - EPA 300.0

| Matrix Spike (B811099-MS1) | Source: 1803095-10 |      |       | Prepared: 03/13/18 17:00 Analyzed: 03/14/18 12:35 |       |     |        |   |
|----------------------------|--------------------|------|-------|---|-------|-----|--------|---|
| Nitrate as N               | 59.7               | 0.10 | mg/kg | 50.0  | 0.808 | 118 | 90-110 | M |

## Total Metals - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|

### Batch B811008 - EPA 7471B

| Blank (B811008-BLK1)            | Prepared: 03/12/18 10:00 Analyzed: 03/12/18 14:27                    |       |           |              |     |        |   |    |
|---------------------------------|--|-------|-----------|--------------|-----|--------|---|----|
| Mercury                         | <0.040   | 0.040 | mg/kg wet |              |     |        |   |    |
| LCS (B811008-BS1)               | Prepared: 03/12/18 10:00 Analyzed: 03/12/18 14:29                    |       |           |              |     |        |   |    |
| Mercury                         | 0.880  | 0.040 | mg/kg wet | 0.833        | 106 | 85-115 |   |    |
| LCS Dup (B811008-BSD1)          | Prepared: 03/12/18 10:00 Analyzed: 03/12/18 14:31                    |       |           |              |     |        |   |    |
| Mercury                         | 0.852  | 0.040 | mg/kg wet | 0.833        | 102 | 85-115 | 3 | 25 |
| Matrix Spike (B811008-MS1)      | Source: 1803084-01 Prepared: 03/12/18 10:00 Analyzed: 03/12/18 14:35 |       |           |              |     |        |   |    |
| Mercury                         | 1.01   | 0.040 | mg/kg dry | 0.981 <0.040 | 103 | 75-125 |   |    |
| Matrix Spike Dup (B811008-MSD1) | Source: 1803084-01 Prepared: 03/12/18 10:00 Analyzed: 03/12/18 14:37 |       |           |              |     |        |   |    |
| Mercury                         | 1.10   | 0.040 | mg/kg dry | 1.04 <0.040  | 106 | 75-125 | 9 | 25 |

### Batch B811050 - EPA 3051A

| Blank (B811050-BLK1) | Prepared: 03/13/18 10:30 Analyzed: 03/14/18 15:43 |       |           |     |           |
|----------------------|---|-------|-----------|-----|-----------|
| Arsenic              | <1.00   | 1.00  | mg/kg wet |     |           |
| Barium               | <1.00   | 1.00  | mg/kg wet |     |           |
| Cadmium              | <0.500  | 0.500 | mg/kg wet |     |           |
| Chromium             | <1.00   | 1.00  | mg/kg wet |     |           |
| Lead                 | <1.00   | 1.00  | mg/kg wet |     |           |
| Phosphorus           | <1.00   | 1.00  | mg/kg wet |     |           |
| Selenium             | <1.00   | 1.00  | mg/kg wet |     |           |
| Silver               | <0.450  | 0.450 | mg/kg wet |     |           |
| LCS (B811050-BS1)    | Prepared: 03/13/18 10:30 Analyzed: 03/14/18 15:49 |       |           |     |           |
| Arsenic              | 91.6  | 1.00  | mg/kg wet | 100 | 92 80-120 |
| Barium               | 93.0  | 1.00  | mg/kg wet | 100 | 93 80-120 |



# LABORATORY REPORT



NELAC Cert. No.: T104704360-17-17

Adams Environmental, Inc  
12018 Las Nubes Street  
San Antonio TX, 78233

Additional Notes:

Project: Mitchell Lake Wetlands

Project Number: Wand C

Project Manager: Brian Gottschalk

**Reported:**

03/16/18 17:11

**Received:**

03/07/18 14:33

**Report No. 1803095**

## Total Metals - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|

### Batch B811050 - EPA 3051A

| LCS (B811050-BS1) |      |       |           | Prepared: 03/13/18 10:30 Analyzed: 03/14/18 15:49 |    |        |  |  |
|-------------------|------|-------|-----------|---|----|--------|--|--|
| Cadmium           | 89.4 | 0.500 | mg/kg wet | 100   | 89 | 80-120 |  |  |
| Chromium          | 89.6 | 1.00  | mg/kg wet | 100   | 90 | 80-120 |  |  |
| Lead              | 87.2 | 1.00  | mg/kg wet | 100   | 87 | 80-120 |  |  |
| Phosphorus        | 88.4 | 1.00  | mg/kg wet | 100   | 88 | 80-120 |  |  |
| Selenium          | 89.9 | 1.00  | mg/kg wet | 100   | 90 | 80-120 |  |  |
| Silver            | 48.7 | 0.450 | mg/kg wet | 50.0  | 97 | 80-120 |  |  |

| LCS Dup (B811050-BSD1) |      |       |           | Prepared: 03/13/18 10:30 Analyzed: 03/14/18 15:54 |    |        |     |    |
|------------------------|------|-------|-----------|---|----|--------|-----|----|
| Arsenic                | 93.0 | 1.00  | mg/kg wet | 100   | 93 | 80-120 | 2   | 30 |
| Barium                 | 93.4 | 1.00  | mg/kg wet | 100   | 93 | 80-120 | 0.5 | 30 |
| Cadmium                | 90.8 | 0.500 | mg/kg wet | 100   | 91 | 80-120 | 1   | 30 |
| Chromium               | 91.0 | 1.00  | mg/kg wet | 100   | 91 | 80-120 | 2   | 30 |
| Lead                   | 88.0 | 1.00  | mg/kg wet | 100   | 88 | 80-120 | 1   | 30 |
| Phosphorus             | 88.9 | 1.00  | mg/kg wet | 100   | 89 | 80-120 | 0.6 | 20 |
| Selenium               | 90.6 | 1.00  | mg/kg wet | 100   | 91 | 80-120 | 0.8 | 30 |
| Silver                 | 49.5 | 0.450 | mg/kg wet | 50.0  | 99 | 80-120 | 2   | 30 |

| Matrix Spike (B811050-MS1) |      |       |           | Source: 1803095-01 Prepared: 03/13/18 10:30 Analyzed: 03/14/18 16:06 |       |    |        |   |
|----------------------------|------|-------|-----------|--|-------|----|--------|---|
| Arsenic                    | 102  | 1.00  | mg/kg dry | 119  | 2.95  | 83 | 75-125 |   |
| Barium                     | 164  | 1.00  | mg/kg dry | 119  | 54.7  | 92 | 75-125 |   |
| Cadmium                    | 95.8 | 0.500 | mg/kg dry | 119  | 0.361 | 80 | 75-125 |   |
| Chromium                   | 103  | 1.00  | mg/kg dry | 119  | 19.4  | 70 | 75-125 | M |
| Lead                       | 135  | 1.00  | mg/kg dry | 119  | 22.3  | 94 | 75-125 |   |
| Phosphorus                 | 1280 | 1.00  | mg/kg dry | 119  | 1190  | 78 | 75-125 |   |
| Selenium                   | 92.3 | 1.00  | mg/kg dry | 119  | <1.00 | 78 | 75-125 |   |
| Silver                     | 55.0 | 0.450 | mg/kg dry | 59.5   | 0.462 | 92 | 75-125 |   |

| Matrix Spike Dup (B811050-MSD1) |      |       |           | Source: 1803095-01 Prepared: 03/13/18 10:30 Analyzed: 03/14/18 16:12 |       |    |        |     |
|---------------------------------|------|-------|-----------|--|-------|----|--------|-----|
| Arsenic                         | 101  | 1.00  | mg/kg dry | 119  | 2.95  | 82 | 75-125 | 0.8 |
| Barium                          | 162  | 1.00  | mg/kg dry | 119  | 54.7  | 90 | 75-125 | 1   |
| Cadmium                         | 95.1 | 0.500 | mg/kg dry | 119  | 0.361 | 80 | 75-125 | 0.7 |
| Chromium                        | 103  | 1.00  | mg/kg dry | 119  | 19.4  | 70 | 75-125 | 0.5 |
| Lead                            | 132  | 1.00  | mg/kg dry | 119  | 22.3  | 92 | 75-125 | 2   |
| Phosphorus                      | 1260 | 1.00  | mg/kg dry | 119  | 1190  | 63 | 75-125 | 1   |
| Selenium                        | 92.9 | 1.00  | mg/kg dry | 119  | <1.00 | 78 | 75-125 | 0.6 |
| Silver                          | 55.3 | 0.450 | mg/kg dry | 59.5   | 0.462 | 92 | 75-125 | 0.5 |



# LABORATORY REPORT



NELAC Cert. No.: **T104704360-17-17**

Adams Environmental, Inc  
12018 Las Nubes Street  
San Antonio TX, 78233

Additional Notes:

Project: Mitchell Lake Wetlands  
Project Number: Wand C  
Project Manager: Brian Gottschalk

**Reported:**  
03/16/18 17:11  
**Received:**  
03/07/18 14:33

**Report No. 1803095**

## Chlorinated Pesticides by GC/ECD - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|

### Batch B810117 - EPA 3550B

**Blank (B810117-BLK1)** Prepared: 03/08/18 08:45 Analyzed: 03/08/18 16:07

|                     |        |       |       |  |  |  |  |  |  |
|---------------------|--------|-------|-------|--|--|--|--|--|--|
| alpha-BHC           | <0.002 | 0.002 | mg/kg |  |  |  |  |  |  |
| gamma-BHC (Lindane) | <0.002 | 0.002 | mg/kg |  |  |  |  |  |  |
| beta-BHC            | <0.002 | 0.002 | mg/kg |  |  |  |  |  |  |
| delta-BHC           | <0.002 | 0.002 | mg/kg |  |  |  |  |  |  |
| Heptachlor          | <0.002 | 0.002 | mg/kg |  |  |  |  |  |  |
| Aldrin              | <0.002 | 0.002 | mg/kg |  |  |  |  |  |  |
| Heptachlor Epoxide  | <0.002 | 0.002 | mg/kg |  |  |  |  |  |  |
| gamma-Chlordane     | <0.002 | 0.002 | mg/kg |  |  |  |  |  |  |
| alpha-Chlordane     | <0.002 | 0.002 | mg/kg |  |  |  |  |  |  |
| Endosulfan I        | <0.002 | 0.002 | mg/kg |  |  |  |  |  |  |
| 4,4'-DDE            | <0.005 | 0.005 | mg/kg |  |  |  |  |  |  |
| Dieldrin            | <0.002 | 0.002 | mg/kg |  |  |  |  |  |  |
| Endrin              | <0.002 | 0.002 | mg/kg |  |  |  |  |  |  |
| 4,4'-DDD            | <0.002 | 0.002 | mg/kg |  |  |  |  |  |  |
| Endosulfan II       | <0.002 | 0.002 | mg/kg |  |  |  |  |  |  |
| 4,4'-DDT            | <0.002 | 0.002 | mg/kg |  |  |  |  |  |  |
| Endrin Aldehyde     | <0.002 | 0.002 | mg/kg |  |  |  |  |  |  |
| Endosulfan Sulfate  | <0.002 | 0.002 | mg/kg |  |  |  |  |  |  |
| Methoxychlor        | <0.002 | 0.002 | mg/kg |  |  |  |  |  |  |
| Endrin Ketone       | <0.002 | 0.002 | mg/kg |  |  |  |  |  |  |
| Toxaphene           | <0.05  | 0.05  | mg/kg |  |  |  |  |  |  |
| Chlordane           | <0.05  | 0.05  | mg/kg |  |  |  |  |  |  |

*Surrogate: Decachlorobiphenyl*      0.0322      mg/kg      0.0333      97      14.8-141

**LCS (B810117-BS1)** Prepared: 03/08/18 08:45 Analyzed: 03/08/18 16:23

|                     |        |       |       |        |     |          |
|---------------------|--------|-------|-------|--------|-----|----------|
| alpha-BHC           | 0.0318 | 0.002 | mg/kg | 0.0333 | 95  | 52.5-127 |
| gamma-BHC (Lindane) | 0.0323 | 0.002 | mg/kg | 0.0333 | 97  | 53.3-139 |
| beta-BHC            | 0.0409 | 0.002 | mg/kg | 0.0333 | 123 | 52.7-132 |
| delta-BHC           | 0.0257 | 0.002 | mg/kg | 0.0333 | 77  | 50.6-139 |
| Heptachlor          | 0.0327 | 0.002 | mg/kg | 0.0333 | 98  | 44.5-148 |
| Aldrin              | 0.0313 | 0.002 | mg/kg | 0.0333 | 94  | 56.3-129 |
| Heptachlor Epoxide  | 0.0303 | 0.002 | mg/kg | 0.0333 | 91  | 58.9-129 |
| gamma-Chlordane     | 0.0311 | 0.002 | mg/kg | 0.0333 | 93  | 59.6-125 |
| alpha-Chlordane     | 0.0329 | 0.002 | mg/kg | 0.0333 | 99  | 57.7-130 |
| Endosulfan I        | 0.0292 | 0.002 | mg/kg | 0.0333 | 88  | 59-122   |
| 4,4'-DDE            | 0.0328 | 0.005 | mg/kg | 0.0333 | 98  | 60.8-130 |
| Dieldrin            | 0.0314 | 0.002 | mg/kg | 0.0333 | 94  | 55.2-136 |
| Endrin              | 0.0334 | 0.002 | mg/kg | 0.0333 | 100 | 67.9-149 |
| 4,4'-DDD            | 0.0350 | 0.002 | mg/kg | 0.0333 | 105 | 58.2-137 |



# LABORATORY REPORT



NELAC Cert. No.: T104704360-17-17

Adams Environmental, Inc  
12018 Las Nubes Street  
San Antonio TX, 78233

Additional Notes:

Project: Mitchell Lake Wetlands

Project Number: Wand C

Project Manager: Brian Gottschalk

**Reported:**

03/16/18 17:11

**Received:**

03/07/18 14:33

**Report No. 1803095**

## Chlorinated Pesticides by GC/ECD - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|

### Batch B810117 - EPA 3550B

| LCS (B810117-BS1)                    |               |       |              |               | Prepared: 03/08/18 08:45 Analyzed: 03/08/18 16:23 |               |  |  |  |
|--------------------------------------|---------------|-------|--------------|---------------|---|---------------|--|--|--|
| Endosulfan II                        | 0.0223        | 0.002 | mg/kg        | 0.0333        | 67  | 57.6-133      |  |  |  |
| 4,4'-DDT                             | 0.0322        | 0.002 | mg/kg        | 0.0333        | 97  | 55.6-135      |  |  |  |
| Endrin Aldehyde                      | 0.0229        | 0.002 | mg/kg        | 0.0333        | 69  | 50-138        |  |  |  |
| Endosulfan Sulfate                   | 0.0270        | 0.002 | mg/kg        | 0.0333        | 81  | 55.9-156      |  |  |  |
| Methoxychlor                         | 0.0309        | 0.002 | mg/kg        | 0.0333        | 93  | 50.9-171      |  |  |  |
| Endrin Ketone                        | 0.0241        | 0.002 | mg/kg        | 0.0333        | 72  | 48.7-153      |  |  |  |
| <i>Surrogate: Decachlorobiphenyl</i> | <i>0.0317</i> |       | <i>mg/kg</i> | <i>0.0333</i> | <i>95</i>   | <i>44-153</i> |  |  |  |

| LCS Dup (B810117-BSD1)               |               |       |              |               | Prepared: 03/08/18 08:45 Analyzed: 03/08/18 16:38 |               |    |      |   |
|--------------------------------------|---------------|-------|--------------|---------------|---|---------------|----|------|---|
| alpha-BHC                            | 0.0329        | 0.002 | mg/kg        | 0.0333        | 99  | 52.5-127      | 3  | 17.2 |   |
| gamma-BHC (Lindane)                  | 0.0337        | 0.002 | mg/kg        | 0.0333        | 101   | 53.3-139      | 4  | 16   |   |
| beta-BHC                             | 0.0387        | 0.002 | mg/kg        | 0.0333        | 116   | 52.7-132      | 5  | 9.22 |   |
| delta-BHC                            | 0.0273        | 0.002 | mg/kg        | 0.0333        | 82  | 50.6-139      | 6  | 8.76 |   |
| Heptachlor                           | 0.0344        | 0.002 | mg/kg        | 0.0333        | 103   | 44.5-148      | 5  | 8.25 |   |
| Aldrin                               | 0.0329        | 0.002 | mg/kg        | 0.0333        | 99  | 56.3-129      | 5  | 9.34 |   |
| Heptachlor Epoxide                   | 0.0323        | 0.002 | mg/kg        | 0.0333        | 97  | 58.9-129      | 7  | 10.7 |   |
| gamma-Chlordane                      | 0.0330        | 0.002 | mg/kg        | 0.0333        | 99  | 59.6-125      | 6  | 10.6 |   |
| alpha-Chlordane                      | 0.0354        | 0.002 | mg/kg        | 0.0333        | 106   | 57.7-130      | 7  | 9.89 |   |
| Endosulfan I                         | 0.0322        | 0.002 | mg/kg        | 0.0333        | 97  | 59-122        | 10 | 13.7 |   |
| 4,4'-DDE                             | 0.0356        | 0.005 | mg/kg        | 0.0333        | 107   | 60.8-130      | 8  | 20.8 |   |
| Dieldrin                             | 0.0325        | 0.002 | mg/kg        | 0.0333        | 97  | 55.2-136      | 4  | 7.76 |   |
| Endrin                               | 0.0362        | 0.002 | mg/kg        | 0.0333        | 109   | 67.9-149      | 8  | 8.34 |   |
| 4,4'-DDD                             | 0.0379        | 0.002 | mg/kg        | 0.0333        | 114   | 58.2-137      | 8  | 8.96 |   |
| Endosulfan II                        | 0.0276        | 0.002 | mg/kg        | 0.0333        | 83  | 57.6-133      | 21 | 8.38 | S |
| 4,4'-DDT                             | 0.0361        | 0.002 | mg/kg        | 0.0333        | 108   | 55.6-135      | 12 | 7.5  | S |
| Endrin Aldehyde                      | 0.0278        | 0.002 | mg/kg        | 0.0333        | 83  | 50-138        | 20 | 8.96 | S |
| Endosulfan Sulfate                   | 0.0329        | 0.002 | mg/kg        | 0.0333        | 99  | 55.9-156      | 20 | 19.5 | S |
| Methoxychlor                         | 0.0363        | 0.002 | mg/kg        | 0.0333        | 109   | 50.9-171      | 16 | 10.2 | S |
| Endrin Ketone                        | 0.0299        | 0.002 | mg/kg        | 0.0333        | 90  | 48.7-153      | 21 | 8.18 | S |
| <i>Surrogate: Decachlorobiphenyl</i> | <i>0.0400</i> |       | <i>mg/kg</i> | <i>0.0333</i> | <i>120</i>  | <i>44-153</i> |    |      |   |

| Matrix Spike (B810117-MS1) |        |       |       |       | Source: 1803007-01 Prepared: 03/08/18 08:45 Analyzed: 03/08/18 17:24 |     |          |  |   |
|----------------------------|--------|-------|-------|-------|--|-----|----------|--|---|
| alpha-BHC                  | 0.112  | 0.002 | mg/kg | 0.100 | <0.002   | 112 | 35-114   |  |   |
| gamma-BHC (Lindane)        | 0.114  | 0.002 | mg/kg | 0.100 | <0.002   | 114 | 35.6-125 |  |   |
| beta-BHC                   | 0.130  | 0.002 | mg/kg | 0.100 | <0.002   | 130 | 37.1-119 |  | M |
| delta-BHC                  | 0.0912 | 0.002 | mg/kg | 0.100 | <0.002   | 91  | 36.2-127 |  |   |
| Heptachlor                 | 0.109  | 0.002 | mg/kg | 0.100 | <0.002   | 109 | 30.1-132 |  |   |



# LABORATORY REPORT



NELAC Cert. No.: T104704360-17-17

Adams Environmental, Inc  
12018 Las Nubes Street  
San Antonio TX, 78233

Additional Notes:

Project: Mitchell Lake Wetlands

Project Number: Wand C  
Project Manager: Brian Gottschalk

**Reported:**  
03/16/18 17:11  
**Received:**  
03/07/18 14:33

**Report No. 1803095**

## Chlorinated Pesticides by GC/ECD - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|

### Batch B810117 - EPA 3550B

| Matrix Spike (B810117-MS1)    | Source: 1803007-01 | Prepared: 03/08/18 08:45 |       |       | Analyzed: 03/08/18 17:24 |     |          |   |
|-------------------------------|--------------------|--------------------------|-------|-------|--------------------------|-----|----------|---|
| Aldrin                        | 0.112              | 0.002                    | mg/kg | 0.100 | <0.002                   | 112 | 32-124   |   |
| Heptachlor Epoxide            | 0.110              | 0.002                    | mg/kg | 0.100 | <0.002                   | 110 | 37.4-128 |   |
| gamma-Chlordane               | 0.162              | 0.002                    | mg/kg | 0.100 | <0.002                   | 162 | 45.3-106 | M |
| alpha-Chlordane               | 0.118              | 0.002                    | mg/kg | 0.100 | <0.002                   | 118 | 38.2-116 | M |
| Endosulfan I                  | 0.104              | 0.002                    | mg/kg | 0.100 | <0.002                   | 104 | 20.8-135 |   |
| 4,4'-DDE                      | 0.114              | 0.005                    | mg/kg | 0.100 | <0.005                   | 114 | 37-121   |   |
| Dieldrin                      | 0.102              | 0.002                    | mg/kg | 0.100 | <0.002                   | 102 | 36.1-128 |   |
| Endrin                        | 0.118              | 0.002                    | mg/kg | 0.100 | <0.002                   | 118 | 39.9-156 |   |
| 4,4'-DDD                      | 0.120              | 0.002                    | mg/kg | 0.100 | <0.002                   | 120 | 16.7-155 |   |
| Endosulfan II                 | 0.0878             | 0.002                    | mg/kg | 0.100 | <0.002                   | 88  | 28.5-128 |   |
| 4,4'-DDT                      | 0.113              | 0.002                    | mg/kg | 0.100 | <0.002                   | 113 | 12.3-149 |   |
| Endrin Aldehyde               | 0.0903             | 0.002                    | mg/kg | 0.100 | <0.002                   | 90  | 31.4-140 |   |
| Endosulfan Sulfate            | 0.0856             | 0.002                    | mg/kg | 0.100 | <0.002                   | 86  | 37-142   |   |
| Methoxychlor                  | 0.0922             | 0.002                    | mg/kg | 0.100 | <0.002                   | 92  | 24.4-167 |   |
| Endrin Ketone                 | 0.0798             | 0.002                    | mg/kg | 0.100 | <0.002                   | 80  | 32.7-135 |   |
| Surrogate: Decachlorobiphenyl | 0.119              |                          | mg/kg | 0.100 |                          | 119 | 14.8-141 |   |

| Matrix Spike Dup (B810117-MSD1) | Source: 1803007-01 | Prepared: 03/08/18 08:45 |       |       | Analyzed: 03/08/18 17:39 |     |          |      |
|---------------------------------|--------------------|--------------------------|-------|-------|--------------------------|-----|----------|------|
| alpha-BHC                       | 0.120              | 0.002                    | mg/kg | 0.100 | <0.002                   | 120 | 35-114   | 8    |
| gamma-BHC (Lindane)             | 0.123              | 0.002                    | mg/kg | 0.100 | <0.002                   | 123 | 35.6-125 | 8    |
| beta-BHC                        | 0.143              | 0.002                    | mg/kg | 0.100 | <0.002                   | 143 | 37.1-119 | 9    |
| delta-BHC                       | 0.0985             | 0.002                    | mg/kg | 0.100 | <0.002                   | 99  | 36.2-127 | 8    |
| Heptachlor                      | 0.131              | 0.002                    | mg/kg | 0.100 | <0.002                   | 131 | 30.1-132 | 19   |
| Aldrin                          | 0.137              | 0.002                    | mg/kg | 0.100 | <0.002                   | 137 | 32-124   | 20   |
| Heptachlor Epoxide              | 0.132              | 0.002                    | mg/kg | 0.100 | <0.002                   | 132 | 37.4-128 | 18   |
| gamma-Chlordane                 | 0.132              | 0.002                    | mg/kg | 0.100 | <0.002                   | 132 | 45.3-106 | 21   |
| alpha-Chlordane                 | 0.137              | 0.002                    | mg/kg | 0.100 | <0.002                   | 137 | 38.2-116 | 15   |
| Endosulfan I                    | 0.123              | 0.002                    | mg/kg | 0.100 | <0.002                   | 123 | 20.8-135 | 17   |
| 4,4'-DDE                        | 0.139              | 0.005                    | mg/kg | 0.100 | <0.005                   | 139 | 37-121   | 20   |
| Dieldrin                        | 0.123              | 0.002                    | mg/kg | 0.100 | <0.002                   | 123 | 36.1-128 | 19   |
| Endrin                          | 0.138              | 0.002                    | mg/kg | 0.100 | <0.002                   | 138 | 39.9-156 | 15   |
| 4,4'-DDD                        | 0.145              | 0.002                    | mg/kg | 0.100 | <0.002                   | 145 | 16.7-155 | 19   |
| Endosulfan II                   | 0.101              | 0.002                    | mg/kg | 0.100 | <0.002                   | 101 | 28.5-128 | 14   |
| 4,4'-DDT                        | 0.133              | 0.002                    | mg/kg | 0.100 | <0.002                   | 133 | 12.3-149 | 16   |
| Endrin Aldehyde                 | 0.105              | 0.002                    | mg/kg | 0.100 | <0.002                   | 105 | 31.4-140 | 15   |
| Endosulfan Sulfate              | 0.103              | 0.002                    | mg/kg | 0.100 | <0.002                   | 103 | 37-142   | 18   |
| Methoxychlor                    | 0.103              | 0.002                    | mg/kg | 0.100 | <0.002                   | 103 | 24.4-167 | 12   |
|                                 |                    |                          |       |       |                          |     |          | 69.4 |



# LABORATORY REPORT



NELAC Cert. No.: T104704360-17-17

Adams Environmental, Inc  
12018 Las Nubes Street  
San Antonio TX, 78233

Project: Mitchell Lake Wetlands  
Project Number: Wand C  
Project Manager: Brian Gottschalk

Additional Notes:

**Reported:**  
03/16/18 17:11  
**Received:**  
03/07/18 14:33

**Report No. 1803095**

## Chlorinated Pesticides by GC/ECD - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|

### Batch B810117 - EPA 3550B

| Matrix Spike Dup (B810117-MSD1) | Source: 1803007-01 | Prepared: 03/08/18 08:45 Analyzed: 03/08/18 17:39 |       |       |        |     |          |    |    |
|---------------------------------|--------------------|---|-------|-------|--------|-----|----------|----|----|
| Endrin Ketone                   | 0.0881             | 0.002   | mg/kg | 0.100 | <0.002 | 88  | 32.7-135 | 10 | 44 |
| Surrogate: Decachlorobiphenyl   | 0.131              |   | mg/kg | 0.100 |        | 131 | 14.8-141 |    |    |

### DEFINITIONS

|        |  |
|--------|--|
| *      | TNI / NELAC accredited analyte   |
| PQL    | Practical Quantitation Limit   |
| MCL    | Maximum Contaminant Level  |
| mg/Kg  | Milligrams per Kilogram (Parts per Million)  |
| mg/L   | Milligrams per Liter (Parts per Million)   |
| PPM    | Parts per Million  |
| L      | LCS recovery is outside QC acceptance limits, the results may have a slight bias.                          |
| M      | MS recovery is outside QC limits, the results may have a slight bias due to possible matrix interferences. |
| RMCCCL | Recommended Maximum Concentration of Contaminants Level  |
| Surr L | Surrogate recovery is outside QC limits due to matrix interferences.                                       |
| Surr H | Surrogate recovery is high due to contribution from hydrocarbon interferences.                             |
| µR/hr  | MicroRoentgens per hour (Measure of Radioactivity Level)   |
| HT     | Sample received past holdtime  |
| IC     | Improper Container   |
| IT     | Improper Temperature   |
| V      | Inssufficient Volume   |
| B      | Sample collected in Bulk   |
| S      | RPD is outside QC limits. This may be due to possible matrix interferences in Matrix spike samples.        |

Test Methods followed by the laboratory are referenced in the following approved methodology, unless otherwise specified.

Standard Methods for the Examination of Water and Wastewater, 21st Edition 2005

Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983

EPA SW Test Methods for the Examination of Solid Waste, SW-846, 1996



## LABORATORY REPORT



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Additional Notes:

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Project Number: Wand C  
Project Manager: Brian Gottschalk

**Reported:**  
03/16/18 17:11  
**Received:**  
03/07/18 14:33

**Report No. 1803095**

### Subcontracted Analyses

| Subcontractor Lab | Lab Number | Analysis   |
|-------------------|------------|------------|
| ALS Environmental | 1803095-01 | Herbicides |
| ALS Environmental | 1803095-02 | Herbicides |
| ALS Environmental | 1803095-06 | Herbicides |
| ALS Environmental | 1803095-07 | Herbicides |

Aimee Landon For Marcela Gracia Hawk, President For

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Richard Hawk, General Manager



## **CHAIN-OFF-CUSTODY RECORD**

**SAN ANTONIO**  
TESTING LABORATORY LLC

11610 S. Laredo Street, San Antonio, Texas 78234  
(210) 229-9920 • Fax (210) 229-9921  
[www.statesfingdiah.com](http://www.statesfingdiah.com)

**Sample Receipt Checklist**

Client:

*Adams Env.*

Report Number:

1803095

Project Name:

Date Received:

3/7/18

Shipped via:

 FedEx  UPS  Lonestar  Hand Delivered  DHL  SATL  Other

Date Due:

3/16/18

Rush:  Specify:  3-5  2  1
**Items to be checked upon Receipt: [Yes, No, N/A]**

|   |     |    |     |                            |
|---|-----|----|-----|----------------------------|
| 1. Custody Seals present?   | Yes | No | NA  | If NA-reason:              |
| 2. Custody Seals intact?  | Yes | No | NA  | If NA-reason:              |
| 3. Air Bill included in folder, if received?  | Yes | No | NA  | If NA-reason:              |
| 4. Is COC included with samples?  | Yes | No | NA  | If NA-reason:              |
| 5. Is COC signed and dated by client?   | Yes | No | NA  | If NA-reason:              |
| 6. Sample temperature: Thermal preservation between >0° - 60° C?<br>(Samples that are delivered to the laboratory on the same day that they are collected may not meet this criterion, but are acceptable if they arrive on ice.) | Yes | No | NA  | Temp: 3.6 °C               |
| 7. Samples received with ice <input checked="" type="checkbox"/> ice packs <input type="checkbox"/> other cooling <input type="checkbox"/>  | Yes | No | NA  | If NA-reason:              |
| 8. Is the COC filled out correctly, and completely?   | Yes | No | NA  | If NA-reason:              |
| 9. Information on the COC matches the samples?  | Yes | No | NA  | If NA-reason:              |
| 10. Samples received within holding time?   | Yes | No | NA  | If NA-reason:              |
| 11. Samples properly labeled?   | Yes | No | NA  | If NA-reason:              |
| 12. Samples submitted with chemical preservation?<br>(e.g. pH adjusted, or sodium thiosulfate added for microbiological tests)  | Yes | No | NA  | If NA-reason: solid        |
| 13. Proper sample containers used?  | Yes | No | NA  | If NA-reason:              |
| 14. All samples received intact, containers not damaged or leaking?   | Yes | No | NA  | If NA-reason:              |
| 15. VOA vials (requesting BTEX/VOC analysis) received with no air bubbles? Bubbles acceptable on VOA vials for TPH.   | Yes | No | NA  | If NA-reason: no air vials |
| 16. Sample volume sufficient for requested analysis?  | Yes | No | NA  | If NA-reason:              |
| 17. Sample amount sufficient for TCLP analysis?   | Yes | No | N/A | If NA-reason: note by      |
| 18. Subcontracted Samples: [if Yes, complete the next section]  | Yes | No | NA  | If NA-reason:              |

Analyses Subcontracted Out: *Herbicides*

No. of Samples 4

Samples sent to: *ALS*Sent By: *SL*Date samples sent: *3/7/18*Samples shipped via: *UPS*TAT Requested: *Reg/TAT*

Tracking number [if any]:

Comments:

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Received By: *Ali*Date: *3/7/18*Labeled By: Date: Logged into LIMS By: Date: Logged into RF By: Date:



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March 16, 2018

Sairum Abburu  
San Antonio Testing Laboratory, Inc.  
1610 S. Laredo St.

San Antonio, TX 78207

Work Order: **HS18030481**

Laboratory Results for: **1803095**

Dear Sairum,

ALS Environmental received 4 sample(s) on Mar 08, 2018 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Jumoke.Lawal

Nicole Brown  
Senior Project Manager

**Client:** San Antonio Testing Laboratory, Inc.  
**Project:** 1803095  
**Work Order:** HS18030481

**SAMPLE SUMMARY**

| Lab Samp ID   | Client Sample ID             | Matrix | TagNo | Collection Date   | Date Received     | Hold                     |
|---------------|------------------------------|--------|-------|-------------------|-------------------|--------------------------|
| HS18030481-01 | 1803095-01 WE 1 (Area W Ew1) | Solid  |       | 06-Mar-2018 13:50 | 08-Mar-2018 12:05 | <input type="checkbox"/> |
| HS18030481-02 | 1803095-02 WE 2 (Area W Ew2) | Solid  |       | 06-Mar-2018 14:20 | 08-Mar-2018 12:05 | <input type="checkbox"/> |
| HS18030481-03 | 1803095-06 CE 1 (Area C Ew1) | Solid  |       | 07-Mar-2018 10:30 | 08-Mar-2018 12:05 | <input type="checkbox"/> |
| HS18030481-04 | 1803095-07 CE 2 (Area C Ew2) | Solid  |       | 07-Mar-2018 11:30 | 08-Mar-2018 12:05 | <input type="checkbox"/> |

**Client:** San Antonio Testing Laboratory, Inc.  
**Project:** 1803095  
**Work Order:** HS18030481

**CASE NARRATIVE****ECD Organics by Method SW8151****Batch ID: 126215**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Client: San Antonio Testing Laboratory, Inc.  
 Project: 1803095  
 Sample ID: 1803095-01 WE 1 (Area W Ew1)  
 Collection Date: 06-Mar-2018 13:50

**ANALYTICAL REPORT**  
 WorkOrder:HS18030481  
 Lab ID:HS18030481-01  
 Matrix:Solid

| ANALYSES                                 | RESULT | QUAL                 | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED     |
|--|--------|----------------------|--------------|-------|-----------------|-------------------|
| <b>CHLORINATED HERBICIDES BY SW8151A</b> |        | <b>Method:SW8151</b> |              |       |                 |                   |
| 2,4,5-T                                  | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 19:37 |
| 2,4,5-TP (Silvex)                        | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 19:37 |
| 2,4-D                                    | ND     |                      | 0.0066       | mg/Kg | 1               | 15-Mar-2018 19:37 |
| 2,4-DB                                   | ND     |                      | 0.0066       | mg/Kg | 1               | 15-Mar-2018 19:37 |
| Dalapon                                  | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 19:37 |
| Dicamba                                  | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 19:37 |
| Dichlorprop                              | ND     |                      | 0.0066       | mg/Kg | 1               | 15-Mar-2018 19:37 |
| Dinoseb                                  | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 19:37 |
| MCPA                                     | ND     |                      | 0.66         | mg/Kg | 1               | 15-Mar-2018 19:37 |
| MCPP                                     | ND     |                      | 0.66         | mg/Kg | 1               | 15-Mar-2018 19:37 |
| <i>Surr: DCAA</i>                        | 76.0   |                      | 30-150       | %REC  | 1               | 15-Mar-2018 19:37 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: San Antonio Testing Laboratory, Inc.  
 Project: 1803095  
 Sample ID: 1803095-02 WE 2 (Area W Ew2)  
 Collection Date: 06-Mar-2018 14:20

**ANALYTICAL REPORT**  
 WorkOrder:HS18030481  
 Lab ID:HS18030481-02  
 Matrix:Solid

| ANALYSES                                 | RESULT | QUAL                 | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED     |
|--|--------|----------------------|--------------|-------|-----------------|-------------------|
| <b>CHLORINATED HERBICIDES BY SW8151A</b> |        | <b>Method:SW8151</b> |              |       |                 |                   |
| 2,4,5-T                                  | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 21:42 |
| 2,4,5-TP (Silvex)                        | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 21:42 |
| 2,4-D                                    | ND     |                      | 0.0066       | mg/Kg | 1               | 15-Mar-2018 21:42 |
| 2,4-DB                                   | ND     |                      | 0.0066       | mg/Kg | 1               | 15-Mar-2018 21:42 |
| Dalapon                                  | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 21:42 |
| Dicamba                                  | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 21:42 |
| Dichlorprop                              | ND     |                      | 0.0066       | mg/Kg | 1               | 15-Mar-2018 21:42 |
| Dinoseb                                  | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 21:42 |
| MCPA                                     | ND     |                      | 0.66         | mg/Kg | 1               | 15-Mar-2018 21:42 |
| MCPP                                     | ND     |                      | 0.66         | mg/Kg | 1               | 15-Mar-2018 21:42 |
| Surr: DCAA                               | 80.6   |                      | 30-150       | %REC  | 1               | 15-Mar-2018 21:42 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: San Antonio Testing Laboratory, Inc.  
 Project: 1803095  
 Sample ID: 1803095-06 CE 1 (Area C Ew1)  
 Collection Date: 07-Mar-2018 10:30

**ANALYTICAL REPORT**  
 WorkOrder:HS18030481  
 Lab ID:HS18030481-03  
 Matrix:Solid

| ANALYSES                                 | RESULT | QUAL                 | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED     |
|--|--------|----------------------|--------------|-------|-----------------|-------------------|
| <b>CHLORINATED HERBICIDES BY SW8151A</b> |        | <b>Method:SW8151</b> |              |       |                 |                   |
| 2,4,5-T                                  | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 22:13 |
| 2,4,5-TP (Silvex)                        | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 22:13 |
| 2,4-D                                    | ND     |                      | 0.0066       | mg/Kg | 1               | 15-Mar-2018 22:13 |
| 2,4-DB                                   | ND     |                      | 0.0066       | mg/Kg | 1               | 15-Mar-2018 22:13 |
| Dalapon                                  | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 22:13 |
| Dicamba                                  | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 22:13 |
| Dichlorprop                              | ND     |                      | 0.0066       | mg/Kg | 1               | 15-Mar-2018 22:13 |
| Dinoseb                                  | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 22:13 |
| MCPA                                     | ND     |                      | 0.66         | mg/Kg | 1               | 15-Mar-2018 22:13 |
| MCPP                                     | ND     |                      | 0.66         | mg/Kg | 1               | 15-Mar-2018 22:13 |
| <i>Surr: DCAA</i>                        | 77.4   |                      | 30-150       | %REC  | 1               | 15-Mar-2018 22:13 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: San Antonio Testing Laboratory, Inc.  
 Project: 1803095  
 Sample ID: 1803095-07 CE 2 (Area C Ew2)  
 Collection Date: 07-Mar-2018 11:30

**ANALYTICAL REPORT**  
 WorkOrder:HS18030481  
 Lab ID:HS18030481-04  
 Matrix:Solid

| ANALYSES                                 | RESULT | QUAL                 | REPORT LIMIT | UNITS | DILUTION FACTOR | DATE ANALYZED     |
|--|--------|----------------------|--------------|-------|-----------------|-------------------|
| <b>CHLORINATED HERBICIDES BY SW8151A</b> |        | <b>Method:SW8151</b> |              |       |                 |                   |
| 2,4,5-T                                  | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 22:44 |
| 2,4,5-TP (Silvex)                        | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 22:44 |
| 2,4-D                                    | ND     |                      | 0.0066       | mg/Kg | 1               | 15-Mar-2018 22:44 |
| 2,4-DB                                   | ND     |                      | 0.0066       | mg/Kg | 1               | 15-Mar-2018 22:44 |
| Dalapon                                  | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 22:44 |
| Dicamba                                  | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 22:44 |
| Dichlorprop                              | ND     |                      | 0.0066       | mg/Kg | 1               | 15-Mar-2018 22:44 |
| Dinoseb                                  | ND     |                      | 0.0033       | mg/Kg | 1               | 15-Mar-2018 22:44 |
| MCPA                                     | ND     |                      | 0.66         | mg/Kg | 1               | 15-Mar-2018 22:44 |
| MCPP                                     | ND     |                      | 0.66         | mg/Kg | 1               | 15-Mar-2018 22:44 |
| <i>Surr: DCAA</i>                        | 84.6   |                      | 30-150       | %REC  | 1               | 15-Mar-2018 22:44 |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**WEIGHT LOG**

**Client:** San Antonio Testing Laboratory, Inc.  
**Project:** 1803095  
**WorkOrder:** HS18030481

**Batch ID:** 126215      **Method:** CHLORINATED HERBICIDES BY SW8151A      **Prep:** 8151PRS

| SampID        | Container | Sample Wt/Vol | Final Volume | Prep Factor |
|---------------|-----------|---------------|--------------|-------------|
| HS18030481-01 | 1         | 30.02         | 10 (mL)      | 0.3331      |
| HS18030481-02 | 1         | 30.02         | 10 (mL)      | 0.3331      |
| HS18030481-03 | 1         | 30.05         | 10 (mL)      | 0.3328      |
| HS18030481-04 | 1         | 30.01         | 10 (mL)      | 0.3332      |

**Client:** San Antonio Testing Laboratory, Inc.  
**Project:** 1803095  
**WorkOrder:** HS18030481

**DATES REPORT**

| Sample ID       | Client Samp ID                  | Collection Date                                      | TCLP Date | Prep Date            | Analysis Date     | DF |
|-----------------|---------------------------------|--|-----------|----------------------|-------------------|----|
| <b>Batch ID</b> | 126215                          | <b>Test Name :</b> CHLORINATED HERBICIDES BY SW8151A |           | <b>Matrix:</b> Solid |                   |    |
| HS18030481-01   | 1803095-01 WE 1 (Area W<br>Ew1) | 06 Mar 2018 13:50                                    |           | 14 Mar 2018 13:43    | 15 Mar 2018 19:37 | 1  |
| HS18030481-02   | 1803095-02 WE 2 (Area W<br>Ew2) | 06 Mar 2018 14:20                                    |           | 14 Mar 2018 13:43    | 15 Mar 2018 21:42 | 1  |
| HS18030481-03   | 1803095-06 CE 1 (Area C<br>Ew1) | 07 Mar 2018 10:30                                    |           | 14 Mar 2018 13:43    | 15 Mar 2018 22:13 | 1  |
| HS18030481-04   | 1803095-07 CE 2 (Area C<br>Ew2) | 07 Mar 2018 11:30                                    |           | 14 Mar 2018 13:43    | 15 Mar 2018 22:44 | 1  |

**Client:** San Antonio Testing Laboratory, Inc.  
**Project:** 1803095  
**WorkOrder:** HS18030481

**QC BATCH REPORT**

| Batch ID: 126215  |                        | Instrument: ECD_9 |                       | Method: SW8151                   |      |               |               |                     |
|-------------------|------------------------|-------------------|-----------------------|----------------------------------|------|---------------|---------------|---------------------|
| MLBK              | Sample ID: MBLK-126215 | Units: ug/Kg      |                       | Analysis Date: 15-Mar-2018 18:34 |      |               |               |                     |
| Client ID:        | Run ID: ECD_9_312526   | SeqNo: 4475985    | PrepDate: 14-Mar-2018 | DF: 1                            |      |               |               |                     |
| Analyte           | Result                 | PQL               | SPK Val               | SPK Ref Value                    | %REC | Control Limit | RPD Ref Value | RPD %RPD Limit Qual |
| 2,4,5-T           | ND                     | 3.3               |                       |                                  |      |               |               |                     |
| 2,4,5-TP (Silvex) | ND                     | 3.3               |                       |                                  |      |               |               |                     |
| 2,4-DB            | ND                     | 6.6               |                       |                                  |      |               |               |                     |
| Dinoseb           | ND                     | 3.3               |                       |                                  |      |               |               |                     |
| Surr: DCAA        | 120.7                  | 0                 | 166.7                 | 0                                | 72.4 | 30 - 150      |               |                     |
| MLBK              | Sample ID: MBLK-126215 | Units: ug/Kg      |                       | Analysis Date: 15-Mar-2018 18:34 |      |               |               |                     |
| Client ID:        | Run ID: ECD_9_312526   | SeqNo: 4475971    | PrepDate: 14-Mar-2018 | DF: 1                            |      |               |               |                     |
| Analyte           | Result                 | PQL               | SPK Val               | SPK Ref Value                    | %REC | Control Limit | RPD Ref Value | RPD %RPD Limit Qual |
| 2,4,5-T           | ND                     | 3.3               |                       |                                  |      |               |               |                     |
| 2,4,5-TP (Silvex) | ND                     | 3.3               |                       |                                  |      |               |               |                     |
| 2,4-D             | ND                     | 6.6               |                       |                                  |      |               |               |                     |
| 2,4-DB            | ND                     | 6.6               |                       |                                  |      |               |               |                     |
| Dalapon           | ND                     | 3.3               |                       |                                  |      |               |               |                     |
| Dicamba           | ND                     | 3.3               |                       |                                  |      |               |               |                     |
| Dichlorprop       | ND                     | 6.6               |                       |                                  |      |               |               |                     |
| Dinoseb           | ND                     | 3.3               |                       |                                  |      |               |               |                     |
| MCPA              | ND                     | 660               |                       |                                  |      |               |               |                     |
| MCPP              | ND                     | 660               |                       |                                  |      |               |               |                     |
| Surr: DCAA        | 120.7                  | 0                 | 166.7                 | 0                                | 72.4 | 30 - 150      |               |                     |
| MLBK              | Sample ID: MBLK-126215 | Units: ug/Kg      |                       | Analysis Date: 14-Mar-2018 21:06 |      |               |               |                     |
| Client ID:        | Run ID: ECD_9_312526   | SeqNo: 4474701    | PrepDate: 14-Mar-2018 | DF: 1                            |      |               |               |                     |
| Analyte           | Result                 | PQL               | SPK Val               | SPK Ref Value                    | %REC | Control Limit | RPD Ref Value | RPD %RPD Limit Qual |
| 2,4-D             | ND                     | 6.6               |                       |                                  |      |               |               |                     |
| Dalapon           | ND                     | 3.3               |                       |                                  |      |               |               |                     |
| Dicamba           | ND                     | 3.3               |                       |                                  |      |               |               |                     |
| Dichlorprop       | ND                     | 6.6               |                       |                                  |      |               |               |                     |
| MCPA              | ND                     | 660               |                       |                                  |      |               |               |                     |
| MCPP              | ND                     | 660               |                       |                                  |      |               |               |                     |
| Surr: DCAA        | 114.4                  | 0                 | 166.7                 | 0                                | 68.6 | 30 - 150      |               |                     |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**Client:** San Antonio Testing Laboratory, Inc.  
**Project:** 1803095  
**WorkOrder:** HS18030481

**QC BATCH REPORT**

| Batch ID: 126215  |                       | Instrument: ECD_9 |         | Method: SW8151                   |       |               |                               |
|-------------------|-----------------------|-------------------|---------|----------------------------------|-------|---------------|-------------------------------|
| LCS               | Sample ID: LCS-126215 | Units: ug/Kg      |         | Analysis Date: 15-Mar-2018 19:06 |       |               |                               |
| Client ID:        | Run ID: ECD_9_312526  | SeqNo: 4475986    |         | PrepDate: 14-Mar-2018            | DF: 1 |               |                               |
| Analyte           | Result                | PQL               | SPK Val | SPK Ref Value                    | %REC  | Control Limit | RPD Ref Value %RPD Limit Qual |
| 2,4,5-T           | 74.07                 | 3.3               | 83.33   | 0                                | 88.9  | 50 - 150      |                               |
| 2,4,5-TP (Silvex) | 76.24                 | 3.3               | 83.33   | 0                                | 91.5  | 50 - 150      |                               |
| 2,4-DB            | 76.06                 | 6.6               | 83.33   | 0                                | 91.3  | 40 - 150      |                               |
| Dinoseb           | 71.79                 | 3.3               | 83.33   | 0                                | 86.1  | 40 - 150      |                               |
| <i>Surr: DCAA</i> | 140.1                 | 0                 | 166.7   | 0                                | 84.1  | 30 - 150      |                               |
| LCS               | Sample ID: LCS-126215 | Units: ug/Kg      |         | Analysis Date: 15-Mar-2018 19:06 |       |               |                               |
| Client ID:        | Run ID: ECD_9_312526  | SeqNo: 4475972    |         | PrepDate: 14-Mar-2018            | DF: 1 |               |                               |
| Analyte           | Result                | PQL               | SPK Val | SPK Ref Value                    | %REC  | Control Limit | RPD Ref Value %RPD Limit Qual |
| 2,4,5-T           | 74.07                 | 3.3               | 83.33   | 0                                | 88.9  | 50 - 150      |                               |
| 2,4,5-TP (Silvex) | 76.24                 | 3.3               | 83.33   | 0                                | 91.5  | 50 - 150      |                               |
| 2,4-D             | 69.7                  | 6.6               | 83.33   | 0                                | 83.6  | 40 - 150      |                               |
| 2,4-DB            | 76.06                 | 6.6               | 83.33   | 0                                | 91.3  | 40 - 150      |                               |
| Dalapon           | 64.03                 | 3.3               | 83.33   | 0                                | 76.8  | 30 - 150      |                               |
| Dicamba           | 70.17                 | 3.3               | 83.33   | 0                                | 84.2  | 40 - 150      |                               |
| Dichlorprop       | 72.68                 | 6.6               | 83.33   | 0                                | 87.2  | 40 - 150      |                               |
| Dinoseb           | 71.79                 | 3.3               | 83.33   | 0                                | 86.1  | 40 - 150      |                               |
| MCPA              | 7109                  | 660               | 8333    | 0                                | 85.3  | 40 - 150      |                               |
| MCPP              | 7552                  | 660               | 8333    | 0                                | 90.6  | 40 - 150      |                               |
| <i>Surr: DCAA</i> | 140.1                 | 0                 | 166.7   | 0                                | 84.1  | 30 - 150      |                               |
| LCS               | Sample ID: LCS-126215 | Units: ug/Kg      |         | Analysis Date: 14-Mar-2018 21:37 |       |               |                               |
| Client ID:        | Run ID: ECD_9_312526  | SeqNo: 4474702    |         | PrepDate: 14-Mar-2018            | DF: 1 |               |                               |
| Analyte           | Result                | PQL               | SPK Val | SPK Ref Value                    | %REC  | Control Limit | RPD Ref Value %RPD Limit Qual |
| 2,4-D             | 57.11                 | 6.6               | 83.33   | 0                                | 68.5  | 40 - 150      |                               |
| Dalapon           | 48.52                 | 3.3               | 83.33   | 0                                | 58.2  | 30 - 150      |                               |
| Dicamba           | 54.17                 | 3.3               | 83.33   | 0                                | 65.0  | 40 - 150      |                               |
| Dichlorprop       | 46.66                 | 6.6               | 83.33   | 0                                | 56.0  | 40 - 150      |                               |
| MCPA              | 4730                  | 660               | 8333    | 0                                | 56.8  | 40 - 150      |                               |
| MCPP              | 5649                  | 660               | 8333    | 0                                | 67.8  | 40 - 150      |                               |
| <i>Surr: DCAA</i> | 91.56                 | 0                 | 166.7   | 0                                | 54.9  | 30 - 150      |                               |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**Client:** San Antonio Testing Laboratory, Inc.  
**Project:** 1803095  
**WorkOrder:** HS18030481

**QC BATCH REPORT**

| Batch ID: 126215  |                              | Instrument: ECD_9 |              | Method: SW8151                   |                       |               |                               |
|-------------------|------------------------------|-------------------|--------------|----------------------------------|-----------------------|---------------|-------------------------------|
| MS                | Sample ID: HS18030481-01MS   | Units: ug/Kg      |              | Analysis Date: 15-Mar-2018 20:08 |                       |               |                               |
| Client ID:        | 1803095-01 WE 1 (Area W Ew1) | Run ID:           | ECD_9_312526 | SeqNo: 4475988                   | PrepDate: 14-Mar-2018 | DF: 1         |                               |
| Analyte           | Result                       | PQL               | SPK Val      | SPK Ref Value                    | %REC                  | Control Limit | RPD Ref Value %RPD Limit Qual |
| 2,4,5-T           | 77.89                        | 3.3               | 83.17        | 0                                | 93.7                  | 50 - 150      |                               |
| 2,4,5-TP (Silvex) | 82.07                        | 3.3               | 83.17        | 0                                | 98.7                  | 50 - 150      |                               |
| 2,4-DB            | 60.99                        | 6.6               | 83.17        | 0                                | 73.3                  | 40 - 150      | P                             |
| Dinoseb           | 81.38                        | 3.3               | 83.17        | 0                                | 97.9                  | 40 - 150      |                               |
| Surr: DCAA        | 147.2                        | 0                 | 166.3        | 0                                | 88.5                  | 30 - 150      |                               |
| MS                | Sample ID: HS18030481-01MS   | Units: ug/Kg      |              | Analysis Date: 15-Mar-2018 20:08 |                       |               |                               |
| Client ID:        | 1803095-01 WE 1 (Area W Ew1) | Run ID:           | ECD_9_312526 | SeqNo: 4475974                   | PrepDate: 14-Mar-2018 | DF: 1         |                               |
| Analyte           | Result                       | PQL               | SPK Val      | SPK Ref Value                    | %REC                  | Control Limit | RPD Ref Value %RPD Limit Qual |
| 2,4,5-T           | 77.89                        | 3.3               | 83.17        | 0                                | 93.7                  | 50 - 150      |                               |
| 2,4,5-TP (Silvex) | 82.07                        | 3.3               | 83.17        | 0                                | 98.7                  | 50 - 150      |                               |
| 2,4-D             | 73.5                         | 6.6               | 83.17        | 0                                | 88.4                  | 40 - 150      |                               |
| 2,4-DB            | 60.99                        | 6.6               | 83.17        | 0                                | 73.3                  | 40 - 150      | P                             |
| Dalapon           | 68.75                        | 3.3               | 83.17        | 0                                | 82.7                  | 30 - 150      |                               |
| Dicamba           | 78.29                        | 3.3               | 83.17        | 0                                | 94.1                  | 40 - 150      |                               |
| Dichlorprop       | 77.44                        | 6.6               | 83.17        | 0                                | 93.1                  | 40 - 150      |                               |
| Dinoseb           | 81.38                        | 3.3               | 83.17        | 0                                | 97.9                  | 40 - 150      |                               |
| MCPA              | 7505                         | 660               | 8317         | 0                                | 90.2                  | 40 - 150      |                               |
| MCPP              | 8502                         | 660               | 8317         | 0                                | 102                   | 40 - 150      |                               |
| Surr: DCAA        | 147.2                        | 0                 | 166.3        | 0                                | 88.5                  | 30 - 150      |                               |
| MS                | Sample ID: HS18030481-01MS   | Units: ug/Kg      |              | Analysis Date: 14-Mar-2018 22:39 |                       |               |                               |
| Client ID:        | 1803095-01 WE 1 (Area W Ew1) | Run ID:           | ECD_9_312526 | SeqNo: 4474704                   | PrepDate: 14-Mar-2018 | DF: 1         |                               |
| Analyte           | Result                       | PQL               | SPK Val      | SPK Ref Value                    | %REC                  | Control Limit | RPD Ref Value %RPD Limit Qual |
| 2,4-D             | 49.11                        | 6.6               | 83.17        | 0                                | 59.0                  | 40 - 150      |                               |
| Dalapon           | 50.61                        | 3.3               | 83.17        | 0                                | 60.8                  | 30 - 150      |                               |
| Dicamba           | 55.92                        | 3.3               | 83.17        | 0                                | 67.2                  | 40 - 150      |                               |
| Dichlorprop       | 42.5                         | 6.6               | 83.17        | 0                                | 51.1                  | 40 - 150      |                               |
| MCPA              | 4406                         | 660               | 8317         | 0                                | 53.0                  | 40 - 150      |                               |
| MCPP              | 5413                         | 660               | 8317         | 0                                | 65.1                  | 40 - 150      |                               |
| Surr: DCAA        | 88.77                        | 0                 | 166.3        | 0                                | 53.4                  | 30 - 150      |                               |

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**Client:** San Antonio Testing Laboratory, Inc.  
**Project:** 1803095  
**WorkOrder:** HS18030481

**QC BATCH REPORT**

| Batch ID: 126215  |                              | Instrument: ECD_9 |              | Method: SW8151                   |         |               |               |      |                |
|-------------------|------------------------------|-------------------|--------------|----------------------------------|---------|---------------|---------------|------|----------------|
| MSD               | Sample ID: HS18030481-01MSD  | Units: ug/Kg      |              | Analysis Date: 15-Mar-2018 20:39 |         |               |               |      |                |
| Client ID:        | 1803095-01 WE 1 (Area W Ew1) | Run ID:           | ECD_9_312526 | SeqNo:                           | 4475975 | PrepDate:     | 14-Mar-2018   | DF:  | 1              |
| Analyte           | Result                       | PQL               | SPK Val      | SPK Ref Value                    | %REC    | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
| 2,4,5-T           | 78.88                        | 3.3               | 83.08        | 0                                | 94.9    | 50 - 150      | 77.89         | 1.26 | 30             |
| 2,4,5-TP (Silvex) | 83.87                        | 3.3               | 83.08        | 0                                | 101     | 50 - 150      | 82.07         | 2.17 | 30             |
| 2,4-D             | 75.12                        | 6.6               | 83.08        | 0                                | 90.4    | 40 - 150      | 73.5          | 2.19 | 30             |
| 2,4-DB            | 62.38                        | 6.6               | 83.08        | 0                                | 75.1    | 40 - 150      | 60.99         | 2.27 | 30             |
| Dalapon           | 70.31                        | 3.3               | 83.08        | 0                                | 84.6    | 30 - 150      | 68.75         | 2.23 | 30             |
| Dicamba           | 81.97                        | 3.3               | 83.08        | 0                                | 98.7    | 40 - 150      | 78.29         | 4.59 | 30             |
| Dichlorprop       | 79.88                        | 6.6               | 83.08        | 0                                | 96.1    | 40 - 150      | 77.44         | 3.1  | 30             |
| Dinoseb           | 83.13                        | 3.3               | 83.08        | 0                                | 100     | 40 - 150      | 81.38         | 2.13 | 30             |
| MCPA              | 7713                         | 660               | 8308         | 0                                | 92.8    | 40 - 150      | 7505          | 2.75 | 30             |
| MCPP              | 8747                         | 660               | 8308         | 0                                | 105     | 40 - 150      | 8502          | 2.85 | 30             |
| Surr: DCAA        | 154.3                        | 0                 | 166.2        | 0                                | 92.8    | 30 - 150      | 147.2         | 4.66 | 30             |
| MSD               | Sample ID: HS18030481-01MSD  | Units: ug/Kg      |              | Analysis Date: 15-Mar-2018 20:39 |         |               |               |      |                |
| Client ID:        | 1803095-01 WE 1 (Area W Ew1) | Run ID:           | ECD_9_312526 | SeqNo:                           | 4475989 | PrepDate:     | 14-Mar-2018   | DF:  | 1              |
| Analyte           | Result                       | PQL               | SPK Val      | SPK Ref Value                    | %REC    | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
| 2,4,5-T           | 78.88                        | 3.3               | 83.08        | 0                                | 94.9    | 50 - 150      | 77.89         | 1.26 | 30             |
| 2,4,5-TP (Silvex) | 83.87                        | 3.3               | 83.08        | 0                                | 101     | 50 - 150      | 82.07         | 2.17 | 30             |
| 2,4-DB            | 62.38                        | 6.6               | 83.08        | 0                                | 75.1    | 40 - 150      | 60.99         | 2.27 | 30             |
| Dinoseb           | 83.13                        | 3.3               | 83.08        | 0                                | 100     | 40 - 150      | 81.38         | 2.13 | 30             |
| Surr: DCAA        | 154.3                        | 0                 | 166.2        | 0                                | 92.8    | 30 - 150      | 147.2         | 4.66 | 30             |
| MSD               | Sample ID: HS18030481-01MSD  | Units: ug/Kg      |              | Analysis Date: 14-Mar-2018 23:10 |         |               |               |      |                |
| Client ID:        | 1803095-01 WE 1 (Area W Ew1) | Run ID:           | ECD_9_312526 | SeqNo:                           | 4474705 | PrepDate:     | 14-Mar-2018   | DF:  | 1              |
| Analyte           | Result                       | PQL               | SPK Val      | SPK Ref Value                    | %REC    | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
| 2,4-D             | 58.14                        | 6.6               | 83.08        | 0                                | 70.0    | 40 - 150      | 49.11         | 16.8 | 30             |
| Dalapon           | 53.85                        | 3.3               | 83.08        | 0                                | 64.8    | 30 - 150      | 50.61         | 6.21 | 30             |
| Dicamba           | 62.27                        | 3.3               | 83.08        | 0                                | 75.0    | 40 - 150      | 55.92         | 10.7 | 30             |
| Dichlorprop       | 49.11                        | 6.6               | 83.08        | 0                                | 59.1    | 40 - 150      | 42.5          | 14.4 | 30             |
| MCPA              | 5020                         | 660               | 8308         | 0                                | 60.4    | 40 - 150      | 4406          | 13   | 30             |
| MCPP              | 6173                         | 660               | 8308         | 0                                | 74.3    | 40 - 150      | 5413          | 13.1 | 30             |
| Surr: DCAA        | 100.1                        | 0                 | 166.2        | 0                                | 60.2    | 30 - 150      | 88.77         | 12   | 30             |

The following samples were analyzed in this batch: HS18030481-01 HS18030481-02 HS18030481-03 HS18030481-04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**Client:** San Antonio Testing Laboratory, Inc.  
**Project:** 1803095  
**WorkOrder:** HS18030481

**QUALIFIERS,  
ACRONYMS, UNITS**

| <b>Qualifier</b> | <b>Description</b>  |
|------------------|---|
| *                | Value exceeds Regulatory Limit  |
| a                | Not accredited  |
| B                | Analyte detected in the associated Method Blank above the Reporting Limit |
| E                | Value above quantitation range  |
| H                | Analyzed outside of Holding Time  |
| J                | Analyte detected below quantitation limit                                 |
| M                | Manually integrated, see raw data for justification                       |
| n                | Not offered for accreditation   |
| ND               | Not Detected at the Reporting Limit                                       |
| O                | Sample amount is > 4 times amount spiked                                  |
| P                | Dual Column results percent difference > 40%                              |
| R                | RPD above laboratory control limit  |
| S                | Spike Recovery outside laboratory control limits                          |
| U                | Analyzed but not detected above the MDL/SDL                               |

| <b>Acronym</b> | <b>Description</b>                  |
|----------------|-------------------------------------|
| DCS            | Detectability Check Study           |
| DUP            | Method Duplicate                    |
| LCS            | Laboratory Control Sample           |
| LCSD           | Laboratory Control Sample Duplicate |
| MBLK           | Method Blank                        |
| MDL            | Method Detection Limit              |
| MQL            | Method Quantitation Limit           |
| MS             | Matrix Spike                        |
| MSD            | Matrix Spike Duplicate              |
| PDS            | Post Digestion Spike                |
| PQL            | Practical Quantitaion Limit         |
| SD             | Serial Dilution                     |
| SDL            | Sample Detection Limit              |
| TRRP           | Texas Risk Reduction Program        |

| <b>Unit Reported</b> | <b>Description</b>      |
|----------------------|-------------------------|
| mg/Kg                | Milligrams per Kilogram |

**CERTIFICATIONS,ACCREDITATIONS & LICENSES**

| Agency         | Number           | Expire Date |
|----------------|------------------|-------------|
| Arkansas       | 17-027-0         | 27-Mar-2018 |
| California     | 2919 2016-2018   | 31-Jul-2018 |
| Illinois       | 004112           | 09-May-2018 |
| Kentucky       | 123043           | 30-Apr-2018 |
| Louisiana      | 03087 2017-2017  | 30-Jun-2018 |
| North Dakota   | R193 2017-2017   | 30-Apr-2018 |
| Oklahoma       | 2017-088         | 31-Aug-2018 |
| Texas          | T104704231-17-19 | 30-Apr-2018 |
| North Carolina | 624-2018         | 31-Dec-2018 |

**Sample Receipt Checklist**

Client Name: San Antonio Testing      Date/Time Received: 08-Mar-2018 12:05  
 Work Order: HS18030481      Received by: JRM

|                         |                                  |                    |              |                                     |                     |
|-------------------------|----------------------------------|--------------------|--------------|-------------------------------------|---------------------|
| Checklist completed by: | <i>Raegen Giga</i><br>eSignature | 9-Mar-2018<br>Date | Reviewed by: | <i>Corey Grandits</i><br>eSignature | 14-Mar-2018<br>Date |
|-------------------------|----------------------------------|--------------------|--------------|-------------------------------------|---------------------|

Matrices: soil      Carrier name: UPS

|   |   |                             |   |
|---|---|-----------------------------|---|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| Custody seals intact on shipping container/cooler?      | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| TX1005 solids received in hermetically sealed vials?    | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/>         |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Container/Temp Blank temperature in compliance?         | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |

Temperature(s)/Thermometer(s): 2.7c/3.1c uc/c      IR 30

Cooler(s)/Kit(s): Client Cooler

Date/Time sample(s) sent to storage: 03/09/2018 17:10

|  |                              |  |  |
|--|------------------------------|--|--|
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/>            | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt?    | Yes <input type="checkbox"/> | No <input type="checkbox"/>            | N/A <input checked="" type="checkbox"/>                    |
| pH adjusted?                           | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | N/A <input type="checkbox"/>                               |

pH adjusted by: \_\_\_\_\_

Login Notes:

Client Contacted: \_\_\_\_\_ Date Contacted: \_\_\_\_\_ Person Contacted: \_\_\_\_\_

Contacted By: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

Corrective Action: \_\_\_\_\_



1610 S. Laredo Street, San Antonio, Texas 78207  
(210) 229-9920 • Fax (210) 229-9921  
[www.satestinglab.com](http://www.satestinglab.com)

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## CHAIN-OF-CUSTODY

|   |  |       |      |
|---|--|-------|------|
| REPORT TO:  |  | IN    |      |
| COMPANY<br><i>SATL</i>                                    | COMPANY  |       |      |
| ADDRESS   | ADDRESS  |       |      |
| CITY  | STATE  | ZIP   | CITY |
| ATTN: <i>Amee London</i>                                  | PHONE # <i>(310) 329-9990</i>  | ATTN: |      |
| REQUESTED TURNAROUND TIME<br>IN BUSINESS DAYS & SURCHARGE | <input type="checkbox"/> 7-10 Days <input type="checkbox"/> 5 Days <input type="checkbox"/> 4 Days <input type="checkbox"/> 3 Days |       |      |

HS18030481

San Antonio Testing Laboratory, Inc.  
1803095



| PROJECT NAME/LOCATION/SITE   |        |      | IN BUSINESS DAYS & SURCHARGE  |                          | REG  | +25%            | +50%  | +75%  | +100%   | +150%   | +300%     |                          |
|--|--------|------|---|--------------------------|--|-----------------|---|---|---|---|-----------|--------------------------|
|  |        |      | THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY  |                          |  |                 |   |   |   |   |           |                          |
| PROJECT NO.  |        |      | HARDCOPY <input type="checkbox"/> YES <input type="checkbox"/> NO / FOR STATE COMPLIANCE <input type="checkbox"/> YES <input type="checkbox"/> NO |                          | SPECIAL REQ.:                                      |                 |   |   |   |   |           |                          |
| SAMPLED BY   |        |      | TEMP. I.R. GUN #  |                          | SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) |                 | <input type="checkbox"/> YES                        | <input type="checkbox"/> NO                                   | INITIAL TO AUTHORIZE BULK ANALYSIS  |   |           |                          |
|  |        |      |   |                          | PROPER CONTAINERS                                  |                 | <input type="checkbox"/> YES                        | <input type="checkbox"/> NO                                   | IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS   |   |           |                          |
| SAMPLE NUMBER  | DATE   | TIME | MATRIX  | SAMPLING METHOD          | TEMP. ON RECPT.                                    | COND. OF SAMPLE | TRRP 13   |   | <input type="checkbox"/> YES  | <input type="checkbox"/> NO   | LPST PCLS | <input type="checkbox"/> |
|  |        |      |   |                          |  |                 | COLLECTED   |   |   |   |           |                          |
|  |        |      |   |                          |  |                 | N<br>C<br>O<br>M<br>B<br>E<br>R<br>N<br>O<br>F<br>R | C<br>O<br>N<br>T<br>A<br>M<br>B<br>E<br>R<br>N<br>L<br>E<br>T | S<br>A<br>M<br>O<br>P<br>U<br>L<br>N<br>E<br>T  | C<br>O<br>N<br>T<br>A<br>I<br>N<br>E<br>R   |           |                          |
| <b>SAMPLE IDENTIFICATION</b>   |        |      |   |                          |  |                 |   |   |   |   |           |                          |
| <b>ANALYSIS REQUESTED</b>  |        |      |   |                          |  |                 |   |   |   |   |           |                          |
| PRESERVED WITH   |        |      |   |                          |  |                 |   |   |   |   |           |                          |
| 1  | 3/6/18 | 1350 |   |                          | 1803095-01   | WEN (Area Ew1)  | 1   | 4m  | 402   |   |           |                          |
| 2  | 3/6/18 | 1420 |   |                          | 1803095-02   | WEN (Area Ew2)  |   |   |   |   |           |                          |
| 3  | 3/7/18 | 1030 |   |                          | 1803095-06   | CE1 (Area Cen1) |   |   |   |   |           |                          |
| 4  | 3/7/18 | 1130 |   |                          | 1803095-07   | CE2 (Area Cen2) |   |   |   |   |           |                          |
| REMARKS  |        |      |   |                          |  |                 |   |   |   |   |           |                          |
| <p>1 3/6/18 1350 N 1 1803095-01 WEN (Area Ew1) 1 4m 402</p> <p>2 3/6/18 1420 N 1 1803095-02 WEN (Area Ew2) X</p> <p>3 3/7/18 1030 N 1 1803095-06 CE1 (Area Cen1) X</p> <p>4 3/7/18 1130 N 1 1803095-07 CE2 (Area Cen2) X</p> |        |      |   |                          |  |                 |   |   |   |   |           |                          |
| RELINQUISHED BY (SIGNATURE)  |        |      | DATE / TIME   | RECEIVED BY (SIGNATURE)  |  | DATE / TIME     | RELINQUISHED BY (SIGNATURE)                         |   | DATE / TIME   | RECEIVED BY (SIGNATURE)   |           | DATE / TIME              |
| RELINQUISHED BY (PRINT NAME)   |        |      | DATE / TIME   | RECEIVED BY (PRINT NAME) |  | DATE / TIME     | RELINQUISHED BY (PRINT NAME)                        |   | DATE / TIME   | RECEIVED BY (PRINT NAME)  |           | DATE / TIME              |
| RELINQUISHED BY (SIGNATURE)  |        |      | DATE / TIME   | RECEIVED BY (SIGNATURE)  |  | DATE / TIME     | METHOD OF SHIPMENT                                  |   |   | SUBCONTRACTED <input type="checkbox"/> YES <input type="checkbox"/> NO                  |           |                          |
| RELINQUISHED BY (PRINT NAME)   |        |      | DATE / TIME   | RECEIVED BY (PRINT NAME) |  | DATE / TIME     | SAMPLED IN 5035 CONTAINERS                          |   | <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | CUSTODY SEAL IN PLACE & INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO |           |                          |

FORM: COC REV 02/2018

*Glenn Ceder*

Times 2-7 INC30 CEO WHITE-LAB CANARY CLIENT

Page 17 of 18

**UPS Internet Shipping: View/Print Label**

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
3. **GETTING YOUR SHIPMENT TO UPS**  
**Customers with a Daily Pickup**  
Your driver will pickup your shipment(s) as usual.

**Customers without a Daily Pickup**

Take your package to any location of The UPS Store®, UPS Access Point™ location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the 'Find Locations' Quick link at [ups.com](http://ups.com).

Schedule a same day or future day Pickup to have a UPS driver pickup all of your Internet Shipping packages.  
Hand the package to any UPS driver in your area.

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SAN ANTONIO, TX 78226

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SAN ANTONIO, TX 78203

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