

## ANNUAL REPORT

### DALLAS EXECUTIVE AIRPORT

April 27, 2009

#### I. INTRODUCTION

On August 14, 2006, the Texas Commission on Environmental Quality (TCEQ) signed and published the latest version of the Texas Pollutant Discharge Elimination System (TPDES) Storm Water Multi-Sector General Permit TXR050000. This permit oversees storm water discharges from 30 types of industrial activities, including those involving air transportation. Air transportation facilities that are classified as SIC Code 45 and which have vehicle maintenance shops, equipment cleaning operations, and airport or aircraft deicing/anti-icing operations are regulated under this permitting program. Areas located within a regulated air transportation facility that are directly involved in vehicle maintenance (e.g., vehicle rehabilitation, mechanical repairs, painting, fueling, lubrication, etc.), equipment cleaning activities, and airport or aircraft deicing operations are specified as industrial activities and require permit coverage. The specific requirements for these activities are found under Sector S of the TPDES Multi Sector General Permit.

The Aviation Department and tenants filed NOIs for the TPDES MS General Permit within 90 days of the implementation date. On July 1, 2003, the Aviation Department and its tenants transferred to the current SWPPP (dated April 2003). This SWPPP replaced the "Dallas Redbird Airport Storm Water Pollution Plan, City of Dallas, Texas" dated September 1996 for the Aviation Department and their tenants. The 2003 SWPPP meets the TPDES MS General Permit. (Some tenants may also have individual SWPPPs that are more specific to their industrial activity and are more stringent than this document.)

This permit requires that qualified personnel conduct a "Comprehensive Site Compliance Evaluation" at least once yearly.

Objectives of this comprehensive evaluation are as follows:

1. Confirm the accuracy of the description of potential pollutant sources contained in the SWPPP.
2. Determine the effectiveness of the SWPPP.
3. Modify the SWPPP as necessary.
4. Assess compliance with the terms and conditions of the facility's storm water permit.

The Dallas Love Field (DAL) site compliance evaluations were conducted by Dallas Department of Aviation (DOA) Environmental Specialists and Pollution Prevention Team (PPT) members. Dallas Storm Water also accompanied the pollution prevention team on these inspections.

This annual report is required by the permit. It defines the scope and summarizes the Comprehensive Site Compliance Evaluation performed during the 2007 permit year. It is to be retained as part of the SWPPP for at least three years from date of evaluation.

The current SWPPP for RBD was made effective in April, 2003. It identified airport operators that have elected to become co-permittees with the DOA to obtain General Permit coverage for storm water discharges associated with industrial activities from their area of operation. It also included an inventory of exposed materials, descriptions of potential pollution sources as well as pollution prevention measures and controls. All airport operators that became co-permittees by the SWPPP effective date, and whose employees or subtenants perform industrial activities were included in this Comprehensive Site Compliance Evaluation. Results of this Evaluation are presented as Attachment 1. For the purpose of implementing the SWPPP, the permit year is from January 1 to December 31.

#### **TCEQ Airport Inspection**

No TCEQ inspections were performed at Dallas Executive Airport during the 2006 permit year.

#### **Dallas Storm Water Industrial Inspection**

Dallas Storm Water conducted an industrial storm water inspection at Dallas Executive Airport that encompassed the Aviation Department and all permitted tenants.

## II. SCOPE OF THE COMPREHENSIVE SITE COMPLIANCE EVALUATION

The Comprehensive Site Compliance Evaluation was conducted in each operator's lease or contracted work area(s) as well as applicable DOA work areas and associated storm water structural control facilities. The evaluation process consisted of several parts, including:

1. Verification of owner/operator information
2. Confirmation of the accuracy of potential pollutant sources as reported in the SWPPP
3. Review of operator's recordkeeping practices, and
4. Assessment of compliance with terms and conditions of the permit as reflected by operator compliance with the measures and controls contained in the SWPPP.

Initially, operator/leaseholder information was obtained and recorded. This included the name and telephone number of the operator or operator's representative present during the evaluation, leaseholder or subtenant status, and, if a subtenant, the name of the leaseholder's representative present during the evaluation.

The second component of the evaluation confirmed information regarding potential pollutant sources as currently recorded in the SWPPP. The airport operator's industrial activity summary contained in Appendix I of the SWPPP was reviewed and the operator/leasehold site map was revised, if necessary, to reflect any changes in the occurrence of industrial activities.

The third component related to the operator's recordkeeping practices. Important records, such as the operator's TCEQ permit number, certifications, completed self-inspection forms, training records, etc, were to be kept in the SWPPP or referenced elsewhere. A discussion was held with the operator/leaseholder emphasizing the importance of retaining these records in an accessible manner.

The fourth component of the evaluation assessed compliance with permit conditions and is related to the inspection process described in Section VI of the RBD SWPPP. As described in the SWPPP, a two-part inspection process has been implemented in response to the general permit requirements. The first part is an annual self-inspection conducted by the operator. Inspection checklists that pertain to specific industrial activities are to be completed by the operator during the self-inspection process. The Comprehensive Site Compliance Evaluation is the second part of the process, and it follows the completion of the operator's self-inspection.

The inspection checklists are as follows:

- Aircraft, Ground Vehicle, and Equipment Maintenance Areas
- Aircraft, Ground Vehicle, and Equipment Cleaning Areas
- Chemical/Material Storage Areas
- Fueling Activities
- Training Program
- Tenant/Operator Storm Water and Pollution Controls
- DOA Storm Water Structures, Pollution Controls and Sediment Controls
- Wet Weather Visual Inspections
- Dry Weather Evaluations

During the fourth component of the Site Compliance Evaluation, the evaluation team reviewed copies of completed checklists, and a walk-through inspection of the operator's industrial area(s) was

performed where adherence to the Best Management Practices (BMPs) was noted. If necessary, a follow-up inspection was scheduled to review actions taken by the operator to resolve SWPPP compliance issues. The evaluation inspections were also conducted for industrial activities performed in DOA work areas and for airport storm water structural controls.

### **III. RESULTS OF THE COMPREHENSIVE SITE COMPLIANCE EVALUATION**

The evaluation process was conducted from March 23, 2009 to April 1, 2009. It included all operators that were permittees on January 2008, and whose employees or subtenants were performing industrial activities at RBD. Attachment 1 of this report contains a summary of the compliance efforts of airport operators to implement measures and controls contained in the SWPPP. The information presented in this report is based on information obtained from the RBD Comprehensive Site Compliance Evaluation process. The compliance report in Attachment 1 lists the operator under evaluation, the date(s) of the evaluation, PPT personnel conducting the evaluation, major observations relating to implementation of the SWPPP and identification of any incidents of noncompliance. It is to be kept for a minimum of three years from the date of evaluation. The major observations that were noted during the evaluation process are described below.

#### **Aircraft, Vehicle, and Equipment Maintenance Areas**

There were no cases of non-compliance noted for this item during the facility inspections at Dallas Executive Airport. Maintenance activities were performed under cover or away from a storm drain where possible. Drip pans were used when necessary, and spill kits were placed in appropriate locations, MSDSs were easily accessible, daily visual inspections were performed, spent rags and wipes were disposed of properly, and temporary berms around drains were used correctly.

#### **Chemical/Material Storage Areas**

There were no cases of non-compliance noted for this item during the facility inspections at Dallas Executive Airport. No inappropriate storage practices were found, and drums were stored indoors or under cover with secondary containment. Dumpsters were kept closed during business, or closed at the end of the business day. Each tenant performs daily visual inspections of their leasehold area.

#### **Spill Control Equipment**

There were no instances of non-compliance noted for this item during the site assessments of Dallas Executive Airport. In all instances spill control equipment is accessible and located appropriately. Disposal of used containment and clean-up materials is handled properly. Spill response and reporting plans are sufficient.

#### **Aircraft, Vehicle and Equipment Wash Area**

No cases of non-compliance for this item were documented during the site investigations at Dallas Executive Airport. Tenants with oil/water separators maintain and inspect the separators appropriately. Washing practices are following the prescribed BMPs.

#### **Fueling Activity**

Fueling activity occurs in designated areas by qualified personnel, tenants perform daily visual inspection of equipment, and fueling does not occur within 50 feet of a storm drain. Spill response procedures appear to be adequate. There is one self-fueling station for small aircraft and it is properly maintained and controlled.

### **Training Program**

There was one instances of non-compliance noted for this item during the site assessments of Dallas Executive Airport. Cutter Aviation was missing documentation that storm water training had been completed. All other tenants have the proper training records, and BMPs are being followed, which indicates that the training has been effective. All of the cases of non-compliance have been recordkeeping and documentation issues.

### **Recordkeeping and Documentation**

There were no instances of non-compliance noted for this item during the site assessments of Dallas Executive Airport. In all instances quarterly and annual checklists had been completed and were readily available for review. In addition Jet Center of Dallas could not provide a copy of their Notice of Intent. All tenants failed to complete at least one quarterly visual wet weather inspection. Retraining will be conducted on this checklist and emphasis on the importance of this checklist will be discussed at the annual meeting.

### **Inspection of DOA Storm Water Structural Controls at RBD**

There are several features constructed as part of the airport drainage system that enhance the quality of storm water. The Comprehensive Site Compliance Evaluation included inspection of these structural controls. The existing control measures at RBD consist primarily of grass-lined ditches and swales that serve to decrease the velocity of storm water runoff. Four new Outfall Closure Gate Devices and two Stormceptors have been installed and will act as structural controls for Dallas Executive Airport.

Inspection of the structural storm water controls at Dallas Executive Airport showed the controls to be performing properly.

#### **IV. SIGNIFICANT REVISIONS TO THE SWPPP**

As a result of the implementation of the SWPPP in July, 2003 and the Comprehensive Site Compliance Evaluation performed for the 2008 permit year, revisions were made to the SWPPP to strengthen its pollution prevention objectives and to make it more user-friendly to the airport operators. Below are descriptions of the most significant revisions that were made to the RBD SWPPP.

The SWPPP will now be available on line [http://dallascityhall.com/aviation/dallas\\_executive\\_swppp.html](http://dallascityhall.com/aviation/dallas_executive_swppp.html) and because of this, tenants with internet access will no longer be required to maintain a hard copy of this document. Tenants will still be responsible for reviewing this document as it is updated, completing and retaining their appropriate checklists, retaining other required documentation associated with the SWPPP, and making it available for review upon request. To facilitate the record keeping process new notebooks with the appropriate dividers will be assigned to each tenant.

#### **Site-Specific Best Management Practices**

Site-specific BMPs have been developed by some of the airport operators to specifically describe pollution prevention procedures to be used only in the operator's lease area. Prior to implementation, each airport operator must submit a description of the BMP to the DOA for written approval. Once approval is received, the operator may implement the site-specific BMP in the operator's lease area. The operator can lose the privilege of implementing site-specific BMPs if the operator does not adhere to the approved procedures.

#### **Recordkeeping and Documentation**

The requirement for tenants to complete quarterly visual wet weather monitoring at designated Storm Water Monitoring Locations (SWMLs) has been implemented. Also the checklist requirements have been revised to accommodate new more efficient and streamlined checklists.

#### **V. MAJOR OBSERVATIONS RELATING TO SWPPP IMPLEMENTATION**

Overall, implementation of the SWPPP at RBD by industrial operators appears to be successful. The same can be said for the operator self-inspection process and Comprehensive Site Compliance Evaluation, except as noted.

The total number of discrepancies decreased from last year. There was no indication that any soil or water contamination occurred as a result of the discrepancies, and the annual sampling report reflected this.

All tenants found to be in compliance during their comprehensive site compliance evaluation have already or will submit a certification of compliance for their facility to the Department of Aviation.

All tenants found to be in non-compliance during their comprehensive site compliance evaluation have 30 days to correct any issues and submit a certification of compliance to the Department of Aviation.

### CERTIFICATION

Permit/Registration No. TXR 05V413

I, Steven Peacock, Ph.D. Environmental Manager  
*Typed or printed name* *Title*

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code §305.44 to sign this document and can provide documentation in proof of such authorization upon request.

Signature: Steven S Peacock Date: 4/28/09



### Wet Weather Monitoring

Wet weather monitoring was conducted on May 27, 2008 at Outfalls 1, 2, 3, 4, 5, 7, and In-fall 1. Sampling was conducted within 30 minutes of rainfall commencement. Annual metals testing was performed on these outfalls and in falls. Visual monitoring was also conducted. The results of the laboratory analysis for metals indicates one incidence of pollutant exceedance, and no other evidence of pollutants. Visual observation of the outfalls indicate no heavy sedimentation in the waters. However, in the Inflow stream the water bore an excessive amount of trash and debris in the form of plastic bags and Styrofoam cups. In addition, there was an abundance of leaves in the inflow which possibly indicate that the storm drains outside the perimeter fence were used as receptacles for leaf fall. For further information on the laboratory results see table below or consult the Xenco Laboratories documentation dated 04 June 08,

### Dallas Executive Airport Annual Storm Water Results – 2008

<b>Pollutant</b>	<b>Recordable Level</b>	<b>Daily Maximum Concentration (mg/L)</b>	<b>OF-1</b>	<b>OF-2</b>	<b>OF-3</b>	<b>OF-4</b>	<b>OF-5</b>	<b>OF-7</b>	<b>IN-1</b>	<b>Pollutant Exceeded</b>
Arsenic	0.010	0.3	BRL	BRL	0.503	BRL	BRL	BRL	BRL	Yes
Barium	0.010	4.0	0.074	BRL	0.016	0.017	0.051	BRL	0.038	No
Cadmium	0.005	0.2	BRL	BRL	BRL	BRL	BRL	BRL	BRL	No
Chromium	0.005	5.0	0.006	BRL	BRL	0.005	0.012	0.006	BRL	No
Copper	0.010	2.0	BRL	BRL	BRL	BRL	BRL	BRL	BRL	No
Lead	0.012	1.5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	No
Manganese	0.010	3.0	0.193	0.023	0.016	0.042	0.186	0.058	0.031	No
Mercury	0.0001	0.01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	No
Nickel	0.010	3.0	BRL	BRL	BRL	BRL	BRL	BRL	BRL	No
Selenium	0.010	0.2	BRL	BRL	BRL	BRL	BRL	BRL	BRL	No
Silver	0.004	0.2	BRL	BRL	BRL	BRL	BRL	BRL	BRL	No
Zinc	0.010	6.0	0.107	0.114	BRL	0.049	0.062	0.019	0.081	No

BRL = Below Recordable Level

Due to the concentration of Arsenic in outfall 3 in the original sample, this outfall was re-sampled at the next qualifying rain event. The second sample was obtained on October 15, 2008 at 12:40 PM. The second sample did not exceed the daily maximum concentrations set by the TPDES MSGP. Therefore the Aviation Department has determined, based upon the construction of the outfall and the area represented in the flow that the initial water sample collected had been contaminated by runoff leaving the nearby housing complex.

Dallas Executive Airport  
Storm Water Results Re-sampling October 2008

<b>Pollutant</b>	<b>Recordable Level</b>	<b>Daily Maximum Concentration (mg/L)</b>	<b>OF-3</b>
Arsenic	0.010	0.3	BRL
Barium	0.010	4.0	BRL
Cadmium	0.005	0.2	BRL
Chromium	0.005	5.0	BRL
Copper	0.010	2.0	BRL
Lead	0.012	1.5	BRL
Manganese	0.010	3.0	BRL
Mercury	0.0001	0.01	BRL
Nickel	0.010	3.0	BRL
Selenium	0.010	0.2	BRL
Silver	0.004	0.2	BRL
Zinc	0.010	6.0	0.012

# **Analytical Report 315014**

**for**

**Dallas Aviation**

**Project Manager: Sam Peacock**

--

**RBD-OF Resmp.**

**22-OCT-08**



**9701 Harry Hines Blvd, Dallas, TX 75220**  
**Ph:(214) 902-0300 Fax:(214) 351-9139**

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South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

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22-OCT-08

Project Manager: **Sam Peacock**  
**Dallas Aviation**  
8008 Cedar Springs Rd. LB16  
Dallas, TX 75235

Reference: XENCO Report No: **315014**

--  
Project Address: --

**Sam Peacock :**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 315014. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 315014 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

---

**Carlos Castro**

Managing Director, Texas

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# Certificate of Analysis Summary 315014

Dallas Aviation, Dallas, TX

Project Name: --

Project Id: RBD-Of Resmp

Contact: Sam Peacock

Project Location: ..

Date Received in Lab: Fri Oct-17-08 01:18 pm

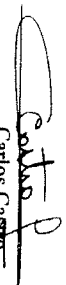
Report Date: 22-OCT-08

Project Manager: Monica Tobar

Analysis Requested		Lab Id:	315014-001				
	Field Id:	OF-3					
	Depth:	N/A					
	Matrix:	WATER					
	Sampled:	Oct-15-08 12:40					
Mercury by EPA 245.1		Extracted:	Oct-21-08 07:40				
	Analyzed:	Oct-21-08 11:54					
	Units/RL:	mg/L RL					
Mercury		BRL	0.0001				
Metals per ICP by EPA 200.7		Extracted:	Oct-20-08 07:30				
	Analyzed:	Oct-20-08 13:38					
	Units/RL:	mg/L RL					
Arsenic		BRL	0.010				
Barium		BRL	0.010				
Cadmium		BRL	0.005				
Chromium		BRL	0.005				
Copper		BRL	0.010				
Lead		BRL	0.012				
Manganese		BRL	0.010				
Nickel		BRL	0.010				
Selenium		BRL	0.010				
Silver		BRL	0.004				
Zinc		BRL	0.012				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data history presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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 Carlos Castro  
 Laboratory Manager



# Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
  - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
  - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
  - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
  - F** RPD exceeded lab control limits.
  - J** The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).
  - U** Analyte was not detected.
  - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
  - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
  - K** Sample analyzed outside of recommended hold time.
- \* Outside XENCO'S scope of NELAC Accreditation

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 5332 Blackberry Drive, Suite 104, San Antonio, TX 78238  
 2505 N. Falkenburg Rd., Tampa, FL 33619  
 5757 NW 158th St, Miami Lakes, FL 33014  
 6017 Financial Dr., Norcross, GA 30071

Phone	Fax
(281) 589-0692	(281) 589-0695
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(770) 449-8800	(770) 449-5477



# BS / BSD Recoveries



Project Name: --

Work Order #: 315014

Analyst: DAT

Lab Batch ID: 737662

Units: mg/L

Date Prepared: 10/21/2008

Batch #: 1

Sample: 517715-1-BKS

Project ID: RBD-OF Resmp.  
Date Analyzed: 10/21/2008

Matrix: Water

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<0.0001	0.0050	0.0051	102	0.005	0.0049	98	4	75-125	20	

Analyst: DAT

Lab Batch ID: 737766

Units: mg/L

Date Prepared: 10/20/2008

Batch #: 1

Sample: 517635-1-BKS

Date Analyzed: 10/20/2008

Matrix: Water

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.010	1.00	1.08	108	1	1.06	106	2	75-125	20	
Barium	<0.010	1.00	1.03	103	1	1.01	101	2	75-125	20	
Cadmium	<0.005	1.00	1.05	105	1	0.978	98	7	75-125	20	
Chromium	<0.005	1.00	1.08	108	1	1.07	107	1	75-125	20	
Copper	<0.010	1.00	0.965	97	1	1.10	110	13	75-125	20	
Lead	<0.012	1.00	1.02	102	1	0.968	97	5	75-125	20	
Manganese	<0.010	1.00	0.919	92	1	1.00	100	8	75-125	20	
Nickel	<0.010	1.00	1.07	107	1	1.05	105	2	75-125	20	
Selenium	<0.010	1.00	1.02	102	1	0.992	99	3	75-125	20	
Silver	<0.004	1.00	0.989	99	1	1.08	108	9	75-125	20	
Zinc	<0.010	1.00	1.04	104	1	1.02	102	2	75-125	20	

## Metals per ICP by EPA 200.7

Relative Percent Difference RPD =  $200 * |(C-F)/(C+F)|$   
 Blank Spike Recovery [D] =  $100 * (C)/[B]$   
 Blank Spike Duplicate Recovery [G] =  $100 * (F)/[E]$   
 All results are based on MDL and Validated for QC Purposes



# Form 3 - MS / MSD Recoveries



Project Name: --

Work Order #: 315014

Lab Batch ID: 737662

Date Analyzed: 10/21/2008

Reporting Units: mg/L

Project ID: RBD-OF Resmp.

QC- Sample ID: 315014-001 S

Date Prepared: 10/21/2008

Batch #: 1 Matrix: Water  
Analyst: DAT

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
<0.0001	0.0050	0.0048	96	0.0050	0.0049	98	2	75-125	20	

Lab Batch ID: 737766

Date Analyzed: 10/20/2008

Reporting Units: mg/L

QC- Sample ID: 314838-001 S

Date Prepared: 10/20/2008

Batch #: 1 Matrix: Water  
Analyst: DAT

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
<0.010	1.00	1.10	110	1.00	1.10	110	0	75-125	20	
0.019	1.00	1.09	107	1.00	1.08	106	1	75-125	20	
<0.005	1.00	1.03	103	1.00	1.05	105	2	75-125	20	
0.025	1.00	1.15	113	1.00	1.15	113	0	75-125	20	
0.160	1.00	1.24	108	1.00	1.26	110	2	75-125	20	
<0.012	1.00	1.04	104	1.00	1.03	103	1	75-125	20	
0.265	1.00	1.30	104	1.00	1.32	106	2	75-125	20	
0.039	1.00	1.10	106	1.00	1.13	109	3	75-125	20	
<0.010	1.00	1.04	104	1.00	1.04	104	0	75-125	20	
<0.004	1.00	1.08	108	1.00	1.09	109	1	75-125	20	
1.38	1.00	2.38	100	1.00	2.44	106	6	75-125	20	

## Metals per ICP by EPA 200.7

### Analytes

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B  
Relative Percent Difference RPD = 200\*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable  
N = See Narrative, EQ = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E





ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

- 4141 Greenbriar Drive, Stafford, TX 77477 981-580-0887
5343 Blackberry Drive, San Antonio, TX 78238 210-509-3434
9701 Henry Hayes Blvd, Dallas, TX 75229 214-992-0300

Page:

Serial #:

Company-City: Dallas Aviation Department 214-610-6654

Lab Only: 315014-D

Project ID: RBS - OF Resmp.
Previously done at XENCO

Project Manager (PM): Steven Peacock
e-mail to PM: Steven.Peacock@dallascityhall.com
Fax to: 214-670-6256

Invoice to: Accounting
Inc Invoice with Report: [ ] Invoice must have a P.O. or Bill to:

Quote/Pricing: P.O. No: [ ] Call for P.O.
Reg Program: USE DRY CLEAN Land Fill Waste Disp TRIPLE DW

Special DLs (LW DW QAPP MDIs Res See Tab 11) Include: [ ] (CPM)
LPST No.: [ ] Dry Basis

Sample Name: VOCS STEX-MTBE OXYG ETOH VOHS

Table with columns: Sample ID, Sampling Date, Time, Depth, Matrix, Composite, # Containers, Container Size, Container Type, Preservatives. Includes handwritten entries for 'OF-3' and '10-15-08 12:40'.

Table with columns: TAT, Addn, Hold Samples, Remarks. Includes handwritten notes: 'Check PH-add HNO3 if necessary', '12 annual metals', 'X # 12 annual metals', 'X Metals Method: 6010 6020 200 8 7470/245 1 747'.

Retrievished by: Jessica Mack am J. Mack 11/16/08
Retrievished to: (Initials and Sign)
Date & Time: 11/17/08
Cooler Temp: 7°C

Preservatives: Various (V), HCl pH 2 (H), H2SO4 pH 2 (S), HNO3 pH 2 (N), Asbc Accl&NaOH (A), ZnAc&NaOH (Z), (Cool <4C) (C), None (NA), See Label (L), Other (O)
Cont. Size: 4oz (4), 32oz (32), 30ml (30), 1L (1), 5L (5), Tedlar Bag (B), Wipe (W), Other
Matrix: Air (A), Product (P), Solid(S), Water (W)
Cont. Type: Glass Armb (A), Glass Clear (C), Plastic (P), Other (O)
Committed to Excellence in Service and Quality since 1989
www.xenco.com



Prelogin/Nonconformance Report- Sample Log-In

Client: Dallas Aviation Dep.

Date/ Time: 10/17/08

Lab ID #: 315014

Initials: AM

Cooler # \_\_\_\_\_

Sample Receipt Checklist

#1	Temperature of container/ cooler?	<u>Yes</u>	No	N/A	<u>1.9°C</u>
#2	Shipping container in good condition?	<u>Yes</u>	No	None	
#3	Samples received on ice?	<u>Yes</u>	No	N/A	<u>Blue Water</u>
#4	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	<u>N/A</u>	
#5	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	<u>N/A</u>	
#6	Chain of Custody present?	<u>Yes</u>	No		
#7	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#8	Any missing/extra samples?	<u>Yes</u>	<u>No</u>		
#9	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#10	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No		
#11	Container label(s) legible and intact?	<u>Yes</u>	No		
#12	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#13	Samples in proper container/ bottle?	<u>Yes</u>	No		
#14	Samples properly preserved?	<u>Yes</u>	No	N/A	
#15	Sample container intact?	<u>Yes</u>	No		
#16	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
#17	All samples received within sufficient hold time?	<u>Yes</u>	No		
#18	Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
#19	VOC samples have zero headspace?	Yes	No	<u>N/A</u>	

Nonconformance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

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

- Check all that Apply:
- Client understands and would like to proceed with analysis
  - Cooling process had begun shortly after sampling event

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

STW / TXR05 V383 / CO

NAME **City of Dallas**  
ADDRESS **8008 Cedar Springs Rd LB 16**  
**Dallas TX 75235**  
FACILITY LOCATION **Dallas Love Field**

(2-16)  
TXR05V383  
PERMIT NUMBER

(17-19)  
N/A  
DISCHARGE NUMBER

NOTE: Enter your authorization number in the underlined space in the upper right hand corner of this page. Example: STW/ TXR05102 CO

Only If required, mail to: TCEQ (MC 213)  
P.O. Box 13087  
Austin, TX 78711-3087

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2008	01	01	2008	12	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

PARAMETER (32-37)	SAMPLE MEASUREMENT REQUIREMENT	QUANTITY OR LOADING (46-53)			QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-69)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
Arsenic	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	BRL	0	1/Year	Grab
	SAMPLE REQUIREMENT	*****	*****	*****	*****	*****	0.3 Daily Max	0	1/Year	Grab
	SAMPLE REQUIREMENT	*****	*****	*****	*****	*****	0.027 Daily Max	0	1/Year	Grab
Barium	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	BRL	0	1/Year	Grab
	SAMPLE REQUIREMENT	*****	*****	*****	*****	*****	4.0 Daily Max	0	1/Year	Grab
	SAMPLE REQUIREMENT	*****	*****	*****	*****	*****	0.006 Daily Max	0	1/Year	Grab
Cadmium	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	BRL	0	1/Year	Grab
	SAMPLE REQUIREMENT	*****	*****	*****	*****	*****	5.0 Daily Max	0	1/Year	Grab
	SAMPLE REQUIREMENT	*****	*****	*****	*****	*****	0.016 Daily Max	0	1/Year	Grab
Chromium	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	BRL	0	1/Year	Grab
	SAMPLE REQUIREMENT	*****	*****	*****	*****	*****	2.0 Daily Max	0	1/Year	Grab
	SAMPLE REQUIREMENT	*****	*****	*****	*****	*****	0.016 Daily Max	0	1/Year	Grab
Copper	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	BRL	0	1/Year	Grab
	SAMPLE REQUIREMENT	*****	*****	*****	*****	*****	5.0 Daily Max	0	1/Year	Grab
	SAMPLE REQUIREMENT	*****	*****	*****	*****	*****	0.016 Daily Max	0	1/Year	Grab
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER										
Steven S. Peacock, PhD. Environmental Manager TYPED OR PRINTED										
CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY OR MY SUPERVISOR'S DIRECT SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT THE INFORMATION SUBMITTED IS TRUE AND CORRECT AND TO EVALUATE THE INFORMATION SUBMITTED FOR THE BEST OF MY KNOWLEDGE AND BELIEF. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR PROVIDING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.										
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>Steven S. Peacock</i> 214-670-6654										
TELEPHONE NUMBER: 214-670-6654 AREA CODE: 214 NUMBER: 670-6654										
DATE: 2008 06 10										

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**BRL = Below Recordable Limits**

EPA Form 3320-1 (3-99)

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED)

For OMB No. 2040-004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
**NAME** City of Dallas  
**ADDRESS** 8008 Cedar Springs Rd LB 16  
 Dallas TX 75235

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)  
 (2-16) TXR05V383  
 PERMIT NUMBER  
 (17-19) N/A  
 DISCHARGE NUMBER

FACILITY LOCATION  
 Dallas Love Field

MONITORING PERIOD  
 YEAR MO DAY  
 2008 01 01  
 (20-21) (22-23) (24-25)

NOTE: Enter your authorization number in the underlined space in the upper right hand corner of this page. Example: STW/ TXR05J102/ CO  
 Only if required, mail to: TCEQ (MC 213)  
 P.O. Box 13087  
 Austin, TX 78711-3087

PARAMETER (32-37)	SAMPLE MEASUREMENT REQUIREMENT	QUANTITY OR LOADING (46-53)			QUALITY OR CONCENTRATION (38-45)			NO. EX ANALYSIS (92-93)	FREQUENCY OF ANALYSIS (64-69)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
Lead	SAMPLE MEASUREMENT REQUIREMENT	*****	*****	*****	*****	*****	0.015	0	1/Year	Grab
Manganese	SAMPLE MEASUREMENT REQUIREMENT	*****	*****	*****	*****	*****	1.5 Daily Max	0	1/Year	Grab
Mercury	SAMPLE MEASUREMENT REQUIREMENT	*****	*****	*****	*****	*****	0.076	0	1/Year	Grab
Nickel	SAMPLE MEASUREMENT REQUIREMENT	*****	*****	*****	*****	*****	3.0 Daily Max	0	1/Year	Grab
Selenium	SAMPLE MEASUREMENT REQUIREMENT	*****	*****	*****	*****	*****	0.0001	0	1/Year	Grab
	SAMPLE MEASUREMENT REQUIREMENT	*****	*****	*****	*****	*****	0.01 Daily Max	0	1/Year	Grab
	SAMPLE MEASUREMENT REQUIREMENT	*****	*****	*****	*****	*****	0.2 Daily Max	0	1/Year	Grab
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER										
Steven S. Peacock, PhD. Environmental Manager										
TYPED OR PRINTED										

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY KNOWLEDGE OF THE PERSONS WHO GATHERED THE INFORMATION, THE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED TO THE BEST OF MY KNOWLEDGE ARE TRUE AND CORRECT. I AM PROVIDING THIS INFORMATION INCLUDING THE POSSIBILITY OF THE AND IMPROVEMENT FOR KNOWN VIOLATIONS.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  
*Steven S. Peacock*

TELEPHONE NUMBER: 214-670-6654  
 AREA CODE: 214  
 NUMBER: 670-6654  
 DATE: 2008 06 10

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 RPL = Below Recordable Limits  
 EPA Form 3320-1 (3-99) (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED)

**STEWARTS WELLS - INLAND WATERS**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

STW / TXR05 V383 / CO

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
**NAME City of Dallas**  
**ADDRESS 8008 Cedar Springs Rd LB 16**  
**Dallas TX 75235**

PERMIT NUMBER: TXR05V383 (2-16)  
DISCHARGE NUMBER: N/A (17-19)

NOTE: Enter your authorization number in the underlined space in the upper right hand corner of this page. Example: STW/ TXR05J102/ CO

FACILITY LOCATION: **Dallas Love Field**

MONITORING PERIOD: YEAR 2008, MO 01, DAY 01 (20-21); YEAR 2008, MO 12, DAY 31 (26-27)

Only if required, mail to: TCEQ (MC 213) P.O. Box 13087 Austin, TX 78711-3087

PARAMETER (32-37)	SAMPLE MEASUREMENT REQUIREMENT	QUANTITY OR LOADING (46-53)		UNITS	QUALITY OR CONCENTRATION (38-45)			MAXIMUM (54-61)	UNITS	NO. EX (82-83)	FREQUENCY OF ANALYSIS (64-69)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM		MINIMUM	AVERAGE						
Silver	SAMPLE MEASUREMENT REQUIREMENT	*****	*****	*****	*****	*****	*****	BRL	0	0	1/Year	Grab
Zinc	SAMPLE MEASUREMENT REQUIREMENT	*****	*****	*****	*****	*****	*****	Daily Max 0.077	mg/l	0	1/Year	Grab
	SAMPLE MEASUREMENT REQUIREMENT	*****	*****	*****	*****	*****	*****	Daily Max 6.0	mg/l	0	1/Year	Grab
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER												
Steven S. Peacock, PhD. Environmental Manager												
TYPED OR PRINTED												
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)												
BRL = Below Recordable Limits												

I CERTIFY UNDER PENALTY OF LAW THAT THE DISCHARGE AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM MONITORING TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY OBTAINED AND EVALUATED THE INFORMATION REPORTED OR THAT PERSONNEL EMPLOYED BY PERSONS SUBJECT TO THIS PERMIT OBTAINED THE INFORMATION REPORTED. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE NO OTHER VIOLATIONS OR DISCHARGES OF POLLUTANTS THAT WOULD BE REPORTABLE UNDER THIS PERMIT AND DISCHARGE MONITORING INFORMATION INCLUDING THE RESPONSIBILITY OF THE AND DISCHARGE MONITORING INFORMATION INCLUDING THE RESPONSIBILITY

Signature of Principal Executive Officer or Authorized Agent: *Steven S. Peacock*

TELEPHONE: 214-670-6654  
AREA CODE: 214  
NUMBER: 670-6654  
DATE: 2008 06 10

# **Analytical Report 304609**

**for**

## **Dallas Aviation**

**Project Manager: Sam Peacock**

**Annual Storm Water**

**RBD**

**04-JUN-08**



**9701 Harry Hines Blvd, Dallas, TX 75220 Ph:(214) 902-0300 Fax:(214) 351-9139**

**Texas certification numbers:**

**Houston, TX T104704215**

**Florida certification numbers:**

**Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675  
Norcross(Atlanta), GA E87429**

**South Carolina certification numbers:**

**Norcross(Atlanta), GA 98015**

**North Carolina certification numbers:**

**Norcross(Atlanta), GA 483**

**Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America  
Midland - Corpus Christi - Atlanta**



04-JUN-08

Project Manager: **Sam Peacock**  
**Dallas Aviation**  
8008 Cedar Springs Rd. LB16  
Dallas, TX 75235

Reference: XENCO Report No: **304609**  
**Annual Storm Water**  
Project Address: ---

**Sam Peacock :**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 304609. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 304609 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

**Carlos Castro**

Managing Director, Texas

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# Certificate of Analytical Summary 304609

## Dallas Aviation, Dallas, TX

Project Id: RBD  
 Contact: Sam Peacock  
 Project Location: —

Project Name: Annual Storm Water

Date Received in Lab: Tue May-27-08 04:10 pm  
 Report Date: 04-JUN-08

Analysis Requested	304609-001		304609-002		304609-003		304609-004		304609-005		304609-006					
	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:
<b>Mercury, Total by EPA 245.1</b>		OF-2	N/A	WATER	May-27-08 13:27	May-30-08 09:23	May-30-08 13:18	mg/L RL 0.0001		IN-1	N/A	WATER	May-27-08 13:55	May-30-08 09:23	May-30-08 13:27	mg/L RL 0.0001
		OF-4	N/A	WATER	May-27-08 13:31	May-30-08 09:23	May-30-08 13:20	mg/L RL 0.0001		OF-1	N/A	WATER	May-27-08 14:02	May-30-08 09:23	May-30-08 13:29	mg/L RL 0.0001
		OF-7	N/A	WATER	May-27-08 13:39	May-30-08 09:23	May-30-08 13:22	mg/L RL 0.0001								
<b>Metals per ICP by EPA 200.7</b>		OF-2	N/A	WATER	May-27-08 13:27	May-30-08 09:23	May-30-08 13:18	mg/L RL 0.0001		IN-1	N/A	WATER	May-27-08 13:55	May-30-08 09:23	May-30-08 13:27	mg/L RL 0.0001
		OF-4	N/A	WATER	May-27-08 13:31	May-30-08 09:23	May-30-08 13:20	mg/L RL 0.0001		OF-1	N/A	WATER	May-27-08 14:02	May-30-08 09:23	May-30-08 13:29	mg/L RL 0.0001
		OF-7	N/A	WATER	May-27-08 13:39	May-30-08 09:23	May-30-08 13:22	mg/L RL 0.0001								
Arsenic																
Barium																
Cadmium																
Chromium																
Copper																
Lead																
Manganese																
Nickel																
Selenium																
Silver																
Zinc																

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work, unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

**Carlos Castro**  
 Laboratory Manager





# Certificate of Analytical Summary 304609

Dallas Aviation, Dallas, TX

Project Name: Annual Storm Water

Project Id: RBD  
 Contact: Sam Peacock  
 Project Location: —

Date Received in Lab: Tue May-27-08 04:10 pm  
 Report Date: 04-JUN-08  
 Project Manager: Monica Tobar

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:
	304609-007	OF-3	N/A	WATER	May-27-08 14:09	May-30-08 09:23	May-30-08 13:33	mg/L RL
<b>Mercury, Total by EPA 245.1</b>								BRL 0.0001
Mercury, Total								
<b>Metals per ICP by EPA 200.7</b>								
Mercury, Total								
Arsenic								
Barium								
Cadmium								
Chromium								
Copper								
Lead								
Manganese								
Nickel								
Selenium								
Silver								
Zinc								

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Carlos Castro  
 Laboratory Manager



## Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
  - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
  - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
  - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
  - F** RPD exceeded lab control limits.
  - J** The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).
  - U** Analyte was not detected.
  - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
  - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
  - K** Sample analyzed outside of recommended hold time.
- \* Outside XENCO'S scope of NELAC Accreditation

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9701 Harry Hines Blvd , Dallas, TX 75220  
5332 Blackberry Drive, Suite 104, San Antonio, TX 78238  
2505 N. Falkenburg Rd., Tampa, FL 33619  
5757 NW 158th St, Miami Lakes, FL 33014  
6017 Financial Dr., Norcross, GA 30071

Phone	Fax
(281) 589-0692	(281) 589-0695
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(770) 449-8800	(770) 449-5477



# BS / BSD Recoveries

Work Order #: 304609

Analyt: DAT

Lab Batch ID: 724001

Sample: 509817-1-BKS

Date Prepared: 05/30/2008

Batch #: 1

Project ID: RBD

Date Analyzed: 05/30/2008

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury, Total	<0.0001	0.0050	0.0051	102	0.005	0.0052	104	2	75-125	20	

Analyt: DAT

Lab Batch ID: 724149

Sample: 509813-1-BKS

Date Prepared: 05/30/2008

Batch #: 1

Date Analyzed: 05/30/2008

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.010	1.00	1.06	106	1	1.05	105	1	75-125	20	
Barium	<0.010	1.00	1.03	103	1	1.01	101	2	75-125	20	
Cadmium	<0.005	1.00	1.04	104	1	1.03	103	1	75-125	20	
Chromium	<0.005	1.00	1.07	107	1	1.07	107	0	75-125	20	
Copper	<0.010	1.00	1.03	103	1	1.02	102	1	75-125	20	
Lead	<0.012	1.00	1.04	104	1	1.03	103	1	75-125	20	
Manganese	<0.010	1.00	1.00	100	1	0.998	100	0	75-125	20	
Nickel	<0.010	1.00	1.05	105	1	1.04	104	1	75-125	20	
Selenium	<0.010	1.00	0.990	99	1	0.977	98	1	75-125	20	
Silver	<0.004	1.00	1.06	106	1	1.06	106	0	75-125	20	
Zinc	<0.010	1.00	1.01	101	1	1.01	101	0	75-125	20	

Relative Percent Difference RPD =  $200 * [(D-F)/(D+F)]$

Blank Spike Recovery [D] =  $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] =  $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



# Form 3 - MSD Recoveries



Project Name: Annual Storm Water

Work Order #: 304609

Lab Batch ID: 724001

Date Analyzed: 05/30/2008

Reporting Units: mg/L

Project ID: RBD

QC- Sample ID: 304474-002 S

Date Prepared: 05/30/2008

Batch #: 1

Analyst: DAT

Matrix: Water

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
<0.0001	0.0050	0.0043	86	0.0050	0.0045	90	5	75-125	20	

Lab Batch ID: 724149

Date Analyzed: 05/30/2008

Reporting Units: mg/L

QC- Sample ID: 304664-002 S

Date Prepared: 05/30/2008

Batch #: 1

Analyst: DAT

Matrix: Water

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
<0.010	1.00	1.05	105	1.00	1.04	104	1	75-125	20	
<0.010	1.00	0.985	99	1.00	1.01	101	2	75-125	20	
<0.005	1.00	1.02	102	1.00	1.03	103	1	75-125	20	
0.018	1.00	1.10	108	1.00	1.10	108	0	75-125	20	
<0.010	1.00	0.999	100	1.00	1.02	102	2	75-125	20	
<0.012	1.00	1.05	105	1.00	1.05	105	0	75-125	20	
<0.010	1.00	1.02	102	1.00	1.02	102	0	75-125	20	
<0.010	1.00	1.04	104	1.00	1.04	104	0	75-125	20	
<0.010	1.00	1.01	101	1.00	0.992	99	2	75-125	20	
<0.004	1.00	1.02	102	1.00	1.05	105	3	75-125	20	
<0.010	1.00	1.01	101	1.00	1.02	102	1	75-125	20	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B  
Relative Percent Difference RPD = 200\*(D-G)/(D+G)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable  
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E



4141 Greenbriar Drive, Stafford, TX 77477 281-589-0692  
 5332 Blackberry Drive, San Antonio, TX 78238 210-509-3334  
 9701 Harry Hines Blvd., Dallas, TX 75220 214-902-0300

**ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD**  
 500 West 1-20 East, Odessa, TX 79765 432-563-1800

Page of  
 Serial #: 227697

Company-City Dallas  
 Project Name-Location **Annual Storm Water**  
 Project ID **ROD**  
 Proj. State: AL, CO, FL, GA, LA, MS, NC, NJ, SC, TN, UT, Other  
 Proj. Manager (PM) **Simon Peacock**  
 e-mail to PM **Simon.Peacock@dallascityhall.com**  
 and e-mail to **Simon.Peacock@dallascityhall.com**  
 Fax to: **214-670-6256**

Invoice to  Accounting  Inc. Invoice with Report  Invoice must have a P.O. or Bill to:

Quote/Pricing: P.O. No:  Call for P.O.

Reg Program:  UST DRY-CLEAN  Land-Fill  Waste-Disp  NPDES  DW

QAPP Per-Contract CLP, AFCEE, NAVY, DOE, DOD, USACE, OTHER:  
 Special DLs (GW, DW, QAPP, MDLs, RILs) See Lab PM Included Call PM  
 LPST No.:  Dry Basis

Sample ID	Sampling Date	Time	Depth	Matrix	Composite	# Containers	Container Size	Container Type	Preservatives	Signature
OF-2	5-27-08	1:24		M	X					
OF-4	5-27-08	1:31		M	X					
OF-7	5-27-08	1:39		M	X					
IN-1	5-27-08	1:55		M	X					
OF-1	5-27-08	2:04		M	X					
OF-5	5-27-08	1:45		M	X					
OF-3	5-27-08	2:09		M	X					

Lab Only: **SC-609-D**

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d  
 It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

VOCs BTEX-MTBE OXYG ETOH VOHS  
 PAHs 8270 8270-SIM 8310  
 TPH: TX1005 8015B 8015M 8015D 8015R 8015G 8015O  
 SVOCs 8270 8270-SIM 625 TCLP/SPLP ( )  
 Metals RCRA (4, 8, 11) Pb TCLP/SPLP ( ) Other  
 Metals Method: 6010 6020 200.8 7470/245.1 7471  
 NORM Ra 226 228 Uranium  
 Asbestos PLM PCM  
 Pesticides 8081 608 TCLP/SPLP ( )  
 Herbicides 8151 615 TCLP/SPLP ( )  
 PCBS 8082 608

From	Date	Rcv by:	Remarks
			Sample Clean-ups are pre-approved as needed
			Hold Samples (Surcharges will apply and are pre-approved)
			Adn. PAH above mg/L W. mg/Kg S Highest Hill
			TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d

Relinquished by (Initials and Sign) **J. Mack** Date & Time **5-27-08 1:16**  
 Relinquished to (Initials and Sign) **Necolito** Date & Time **5-27-08 1:16**  
 Lab: **Necolito**

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Ac&NaOH (A), ZnAc&NaOH (Z), (Cool<4C) (C), None (NA), See Label (L), Other (O)  
 Cont. Size: 4oz (4), 8oz (8), 32z (32), 40ml VOA (V), 1L (1), 500ml (5), Tedi Bag (B), Wipe (W), Other  
 Matrix: Air (A), Product (P), Solid(S), Water (W)



Prelogin/Nonconformance Report- Sample Log-In

Client: Dunkin' Donuts  
Date/ Time: 5-27-08  
Lab ID #: 304609  
Initials: JO

MC

Sample Receipt Checklist

#1	Temperature of container/ cooler?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	N/A	<input checked="" type="checkbox"/> V.C.
#2	Shipping container in good condition?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	None	
#3	Samples received on ice?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	N/A	<input type="checkbox"/> Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	N/A	
#5	Custody Seals intact on sample bottles/ container?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
#6	Chain of Custody present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
#7	Sample instructions complete of Chain of Custody?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
#8	Any missing/extra samples?	<input type="radio"/> Yes	<input checked="" type="radio"/> No		
#9	Chain of Custody signed when relinquished/ received?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
#10	Chain of Custody agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
#11	Container label(s) legible and intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
#12	Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
#13	Samples in proper container/ bottle?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
#14	Samples properly preserved?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	N/A	
#15	Sample container intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
#16	Sufficient sample amount for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
#17	All samples received within sufficient hold time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
#18	Subcontract of sample(s)?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A	
#19	VOC samples have zero headspace?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A	

Nonconformance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_  
Regarding: \_\_\_\_\_

Corrective Action Taken:

Check all that Apply:  Client understands and would like to proceed with analysis  
 Cooling process had begun shortly after sampling event