

Memorandum



DATE April 20, 2012

TO Honorable Members of the Transportation and Environment Committee:
Linda L. Koop (Chair), Sheffie Kadane (Vice Chair), Sandy Greyson,
Delia Jasso, Vonciel Jones Hill, Pauline Medrano

SUBJECT **Overview of ISO 14001 Environmental Management System – Annual Report**

On Monday, April 23, 2012, The Transportation and Environment Council Committee will be briefed on an Overview of the ISO 14001 Environmental Management System – Annual Report. The material is attached for your review.

Please feel free to contact me if you need additional information.



Jill A. Jordan, P.E.
Assistant City Manager

c: The Honorable Mayor and Members of the City Council
Mary K. Suhm, City Manager
Thomas P. Perkins, Jr. City Attorney
Rosa Rios, City Secretary
Craig Kinton, City Auditor
Judge C. Victor Lander, Administrative Judge
A.C. Gonzalez, First Assistant City Manager
Ryan S. Evans, Assistant City Manager
Forest Turner, Assistant City Manager
Joey Zapata, Assistant City Manager
Jeanne Chipperfield, Chief Financial Officer
Edward Scott, Director, Controller's Office
Frank Libro, Public Information Office
Theresa O'Donnell, Director, Sustainable Development and Construction
Rick Galceran, Director, Public Works
Stephanie Cooper -Thompson, Assistant to the City Manager – Council Office



Overview of ISO 14001 Environmental Management System - Annual Report



Transportation and Environment Committee Briefing
April 23, 2012



Quality
ISO 9001

Environmental
ISO 14001

Safety
OHSAS 18001



City of Dallas Management Systems

- The City is currently in the process of implementing three Management Systems:
 - Environmental (ISO 14001) - Focus is on reducing environmental impacts of our operations
 - Quality (ISO 9001) - Focus is on operating more efficiently and meeting the needs and expectations of our customers
 - Occupational Health and Safety (OHSAS 18001) - Focus is on improving our health and safety performance

Quality
ISO 9001

Environmental
ISO 14001

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Implementation Status - Certified Departments

- When departments are ready, an independent third party auditor conducts a certification audit. Current status:
 - Environmental (ISO 14001) - 11 departments certified
 - Quality (ISO 9001) - 7 departments certified
 - Occupational Health and Safety (OHSAS 18001) - 3 departments certified

Quality
ISO 9001

Environmental
ISO 14001

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Today's Briefing Provides an Overview of the Environmental Management System (EMS) per ISO 14001:2004

- Why did we choose to implement an EMS?
 - Minimizes the environmental impacts of our operations
 - Enhances the efficiency of our environmental operations and therefore saves money
 - Improves environmental regulatory compliance via a systematic approach
 - Sets an example for other organizations and for our citizens that we "walk the talk"

Quality
ISO 9001

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Understanding an Environmental Management System (EMS) Per ISO 14001

- A systematic approach of voluntarily identifying, monitoring, and reducing environmental impacts of your operations
- **PDCA Model**
 - Plan
 - Do
 - Check
 - Act

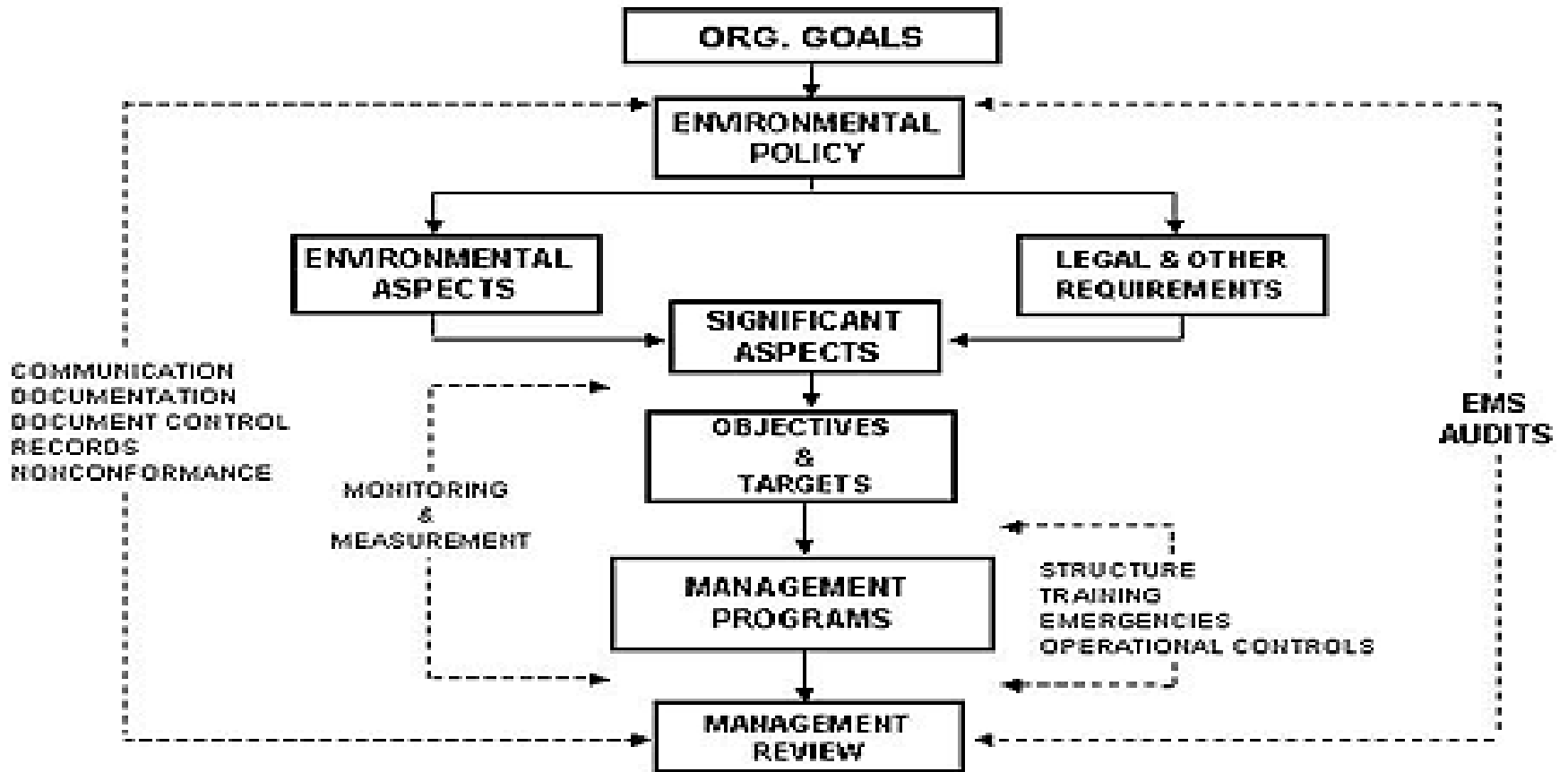
Quality
ISO 9001

Environmental
ISO 14001

Safety
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ISO 14001 Framework



Quality
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Environmental
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EMS: Environmental Policy



Environmental Policy

The City of Dallas is committed to a clean, safe, and healthy environment. As such, we will exercise environmental stewardship in our dealings with employees, other governments, citizens, City contractors, business and others in the community for our world today as well as for future generations. Caring for the environment is one of our core values, and this is demonstrated by ensuring our activities are in harmony with the natural world around us.

This commitment is embodied by the following actions:

- ❖ Implementation of programs and procedures with an intent to meet or exceed all applicable environmental laws and regulations.
- ❖ Continual improvement of our environmental performance through proactive environmental management and self-assessments and/or third-party assessments.
- ❖ Prevention of pollution at its source through implementation of best management practices and resource conservation measures to reuse, reclaim, and recycle materials we generate.
- ❖ Utilization of Environmental Management Systems, as appropriate for our operations, to provide a framework for systematically reviewing and reducing our environmental footprint.
- ❖ Employees will abide by all environmental regulations and demonstrate environmental compliance in their daily work practices.
- ❖ Educate City employees on Dallas' environmental policies and motivate and encourage employees to practice environmental stewardship by raising awareness and sensitivity to environmental issues through City policies, regulations, training, and interactive dialogue.
- ❖ Outreach to the citizens and businesses of our community by communication of this Policy and education on the importance of environmental stewardship for clean air and water and sustainable development for the City of Dallas.

Approved by Dallas City Council January 26, 2005.

Signed

Mary K. Suhm
City Manager

- Minimum ISO 14001 Commitments:
 - Meet or exceed environmental laws and regulations
 - Continual improvement on environmental performance
 - Pollution prevention at its source
- The City of Dallas Environmental Policy was approved by the City Council on January 26, 2005
- Policy applies generally to all City departments and employees
- 11 departments were selected for EMS implementation because their operations result in the greatest potential environmental impacts

Quality
ISO 9001

Environmental
ISO 14001

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EMS Implementation Milestones

- 2005-2008 Worked to implement ISO 14001 elements
- June 2008 Achieved ISO 14001 certification for 11 departments
- 2008-2010 Successfully maintained ISO 14001 certification via 4 surveillance audits
- June 2011 Successfully achieved ISO 14001 recertification for 11 departments

Quality
ISO 9001

Environmental
ISO 14001

Safety
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External Audits vs. Internal Audits

- Why do we have both?
 - An internal audit program that periodically evaluates regulatory compliance and conformance of the EMS to ISO 14001 is a required element of the standard
 - Internal audits are the “Check” step of the Plan-Do-Check-Act systematic approach of the EMS
 - External audits by an independent third party are necessary if our goal is to achieve ISO 14001 certification and to maintain that certification throughout the 3-year certification period
 - An organization will not continually improve its environmental performance without a rigorous audit program

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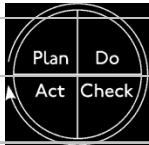
Nonconformances vs. Observations

- Nonconformance - Nonfulfillment of an ISO 14001 requirement. Something doesn't conform to one of the elements of the standard. The nonconforming condition must be corrected in order to maintain certification.
- Observation - A condition that has the potential to become a nonconformance but does not yet rise to that level of concern. Preventive action should be considered but is not mandatory.

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EMS External Audit Nonconformances by Department

Bureau Veritas ISO 14001 Audits Since Certification

	Surveillance Audit #1 Oct 2008	Surveillance Audit #2 Apr 2009	Surveillance Audit #3 Oct 2009	Surveillance Audit #4a Apr 2010	Surveillance Audit #4b Oct 2010	Recertification Audit Feb-Mar 2011	Totals
Departments	Audit Nonconformances						
OEQ	3	1	5	4	Not Audited	3	16
AVIATION	2	2	0	0	Not Audited	1	5
CES	2	Not Audited	1	2	Not Audited	3	8
CIS - RADIO SHOP	2	Not Audited	2	0	Not Audited	0	4
CODE	3	0	1	6	Not Audited	2	12
COURTS - MARSHAL'S OFFICE	1	Not Audited	0	Not Audited	1	0	2
DEVELOPMENT SERVICES	0	Not Audited	Facility Closed	Facility Closed	Facility Closed	Facility Closed	0
DWU	2	8	5	6	Not Audited	10	31
EBS	1	3	0	Not Audited	3	3	10
FIRE	5	1	3	Not Audited	1	3	13
PARKS	2	4	3	5	Not Audited	1	15
POLICE	3	6	5	Not Audited	5	2	21
PUBLIC WORKS	0	10	0	Not Audited	3	3	16
SANITATION	1	1	0	1	Not Audited	3	6
STREETS	0	1	1	Not Audited	3	0	5
	27	37	26	24	16	34	164

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EMS External Audit Nonconformances by ISO 14001 Element

Bureau Veritas ISO 14001 Audits Since Certification

		Surveillance Audit #1	Surveillance Audit #2	Surveillance Audit #3	Surveillance Audit #4a	Surveillance Audit #4b	Recertification Audit	Totals
		Oct 2008	Apr 2009	Oct 2009	Apr 2010	Oct 2010	Feb-Mar 2011	
Elements of ISO 14001:2004 Standard		Audit Nonconformances						
4.1	General Requirements							0
4.2	Environmental Policy							0
4.3.1	Environmental Aspects	1	1	1	1	2		6
4.3.2	Legal and Other Requirements	2	3	1	4	1	9	20
4.3.3	Objectives, Targets and Programs		1	1	3	2		7
4.4.1	Resources, Roles, Responsibility and Authority							0
4.4.2	Competence, Training and Awareness	9	6	7	3	2	6	33
4.4.3	Communication			1				1
4.4.4	Documentation							0
4.4.5	Control of Documents		4	1	3	2	3	13
4.4.6	Operational Control	7	15	6	3	4	4	39
4.4.7	Emergency Preparedness and Response	1	4	2	3		1	11
4.5.1	Monitoring and Measurement	4	1	2	1	1	5	14
4.5.2	Evaluation of Compliance	1	1		1			3
4.5.3	Nonconformity, Corrective and Preventive Action			1	1	1	2	5
4.5.4	Control of Records	1	1	2	1		2	7
4.5.5	Internal Audit	1		1			1	3
4.6	Management Review					1	1	2
Totals		27	37	26	24	16	34	164

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Internal Audits: EMS and Evaluation of Compliance

- In FY10-11 the COD environmental internal audit team conducted:
 - 111 compliance audits of City business units (orgs)
 - 13 EMS audits of City departments
 - EMS audits are sometimes integrated with Quality and/or Safety audits when the audited departments are participating in those programs (4 integrated audits were conducted in FY10-11)
 - Issued 75 new audit findings (NCs + Obs) in FY10-11
 - Avoided potential fines of up to \$59,950

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Status of FY10-11 Internal Audit Findings

- Of the 75 findings issued in FY10-11
 - 58 are closed
 - 17 are still being worked on

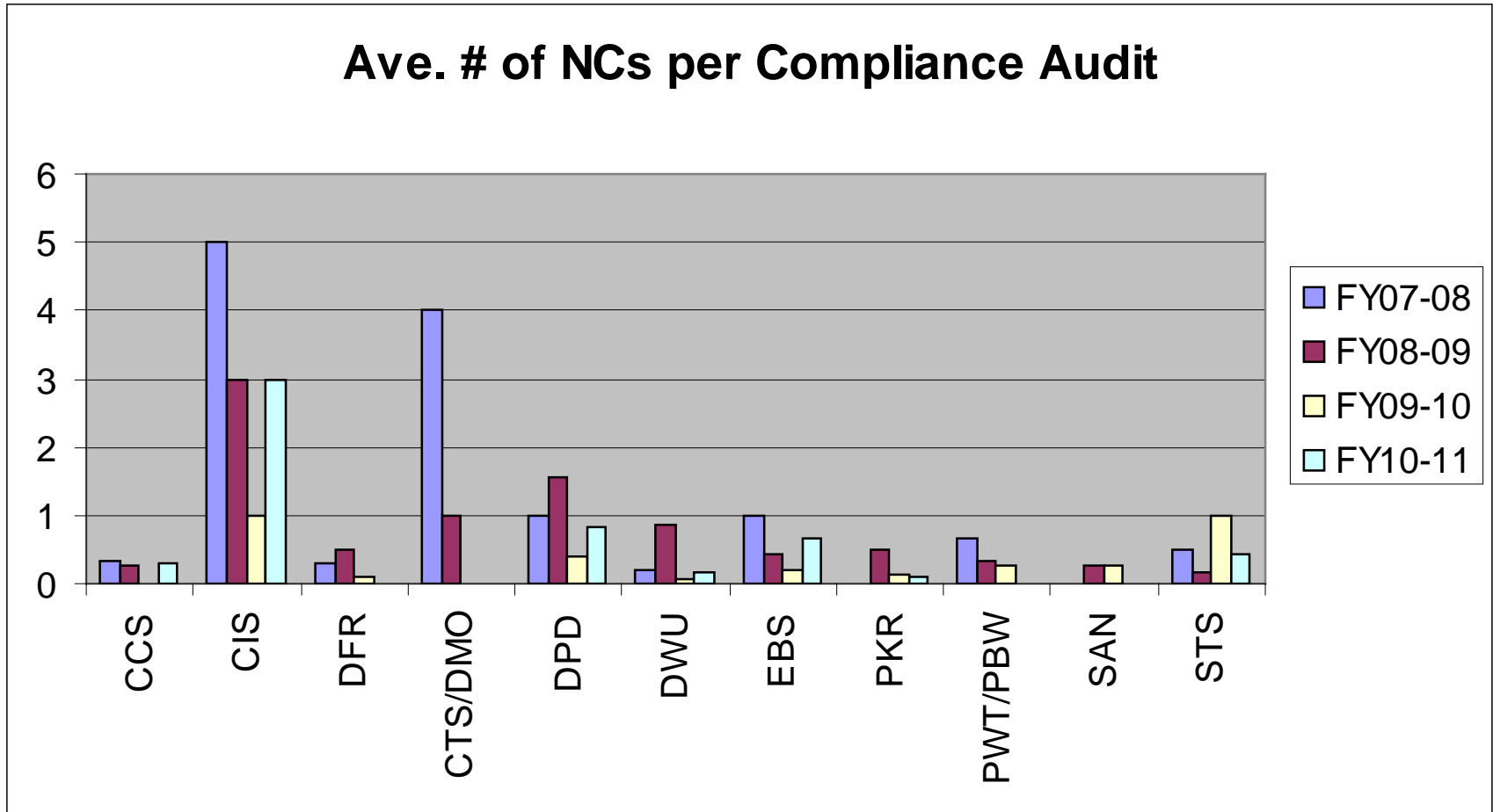
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Internal Audits: Dept. Trends - Compliance



Quality
ISO 9001

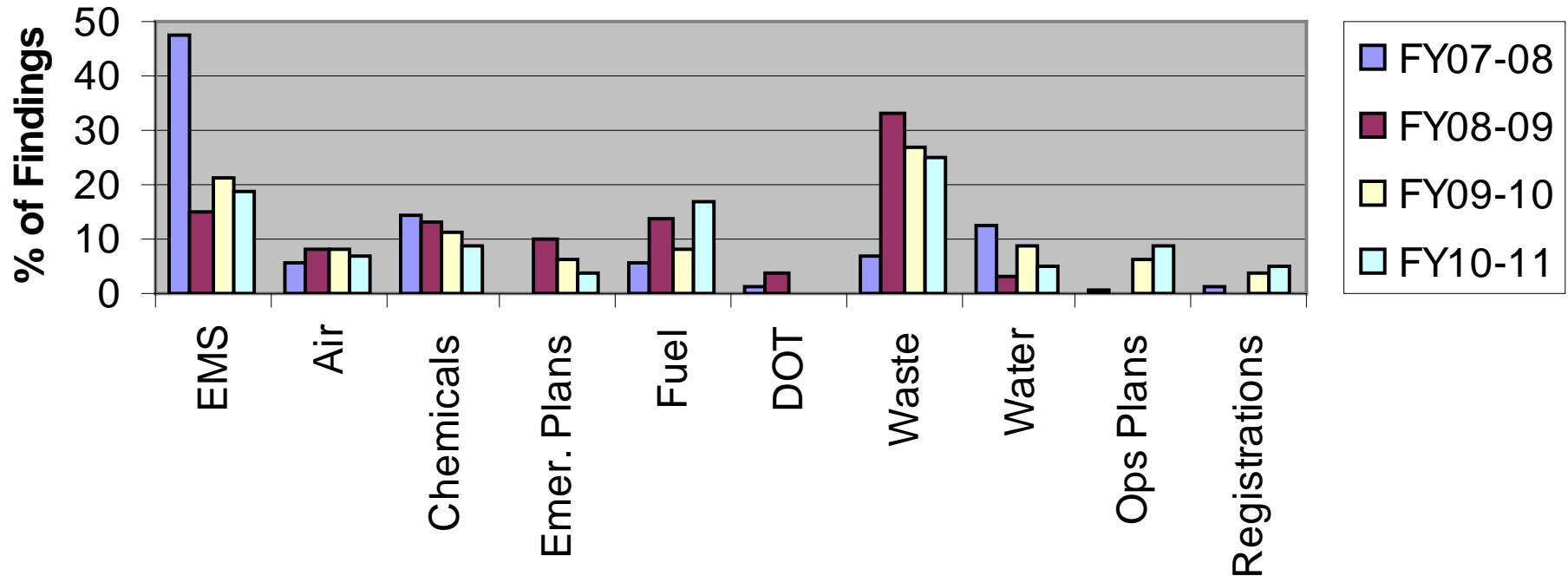
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Internal Audit Findings by Topic-Trends

Trends in Internal Audit Findings by Topic



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Internal Audits: EMS and Evaluation of Compliance

- Results of Audits (YTD FY11-12):
 - From 10/01/11 to 03/14/12:
 - Issued 23 findings
 - Closed 65 findings
- Comparison to Last Year (YTD FY10-11):
 - From 10/01/10 to 03/14/11:
 - Issued 17 findings
 - Closed 28 findings

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FY10-11 Notices of Violation (NOVs)

- Storm Water Management (SWM) reported to OEQ that 110 NOVs were issued to operators of City project construction sites
- SWM did not issue any NOVs to City industrial facilities (i.e., completed City facilities subject to MS4 permit)
- PBW- Air Compliance reported to OEQ that no air NOVs were issued to any City facilities
- Central Wastewater Treatment Plant self-reported effluent limit violations on 12/31/10 and 1/31/11
 - Exceeded lower limit for pH, 12/10
 - Exceeded permitted flow thru, 1/11

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FY10-11 City-owned Construction Site NOV Details

Site	# of NOV
Sphinx at Fiji Senior Living Center	62
Flora Street Townhomes	7
Trinity River Standing Wave at Moore Park	6
East Side Water Treatment Plant	4
Alta Mesa Pump Station	4
Katy Trail - Glencoe Park	4
North Bishop Ave - West Neeley Ave to West Colorado Blvd	3
Cedar Creek Ranch	2
Street Reconstruction Group 06-616	2
Trinity Trails	2
Lake Highlands Town Center	1
Margaret Hunt Hill Bridge	1
Scyene & Hatcher Street Development	1
Southside Wastewater Plant (DWU)	1
Stevens Park Golf Course	1
Streetscape improvements Buckner Blvd 48Y	1
Streetscape Utility Improvements - PB03R848	1
Taxiway L Extension - Love Field	1

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FY10-11 Highlighted TCEQ Actions

- Elm Fork Water Treatment Plant successfully resolved an NOV it received on 1/18/11.
 - Cleaned up and reported as required
 - No fine or other enforcement was levied by TCEQ



FY11-12 (YTD) Highlighted TCEQ Actions

- City of Dallas identified as a Potentially Responsible Party (PRP) at Voda Petroleum Superfund site in Gregg County (near Longview, an ongoing issue from an earlier year)
 - Draft Agreed Final Judgment is being reviewed in City Attorney's Office
 - 300+ Potentially Responsible Parties



Changing Regulatory Circumstances

- On 1/19/2011, the nine-county DFW nonattainment area was re-designated from "moderate" to "serious" nonattainment for the 1997 ozone standard (85 ppb).
 - Benefits:
 - Improved health of the community due to better air quality is the long-term benefit
 - Costs to City:
 - If region does not achieve this ozone standard by 2013, federal funding for transportation projects and community development block grant funding will be in jeopardy

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Changing Regulatory Circumstances

- In September 2011, the Environmental Protection Agency finalized a lower ozone standard of 75 ppb (attainment deadline not yet set).
 - New standard will expand DFW non-attainment area from 9 to 11 counties, with the inclusion of Wise and Hood Counties
 - Benefits:
 - Improved health of the community due to better air quality is the long-term benefit
 - Costs to City:
 - Perception of poor air quality in the area may keep businesses from relocating here
 - New standard will require the City to seek additional emission reductions from its own operations, as well as strengthen efforts to encourage the private sector to reduce emissions

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Ozone: What City of Dallas is Doing...

- Alternative Fuels: 35% of the City's fleet is running on biodiesel, natural gas, or is a hybrid
- Idling Ordinance: City Ordinance prohibiting vehicle operators with a gross weight over 14,000 pounds to idle for more than 5 minutes
- Renewable Energy: 40% of the City's power comes from renewable energy, primarily wind power. City is among top purchasers for green energy on EPA's "Top 20 Local Government Partner List"
- Green Ride Program: Encourages City employees to reduce commuting miles by working flex schedules and using alternative forms of transportation such as carpooling, mass transit, riding bicycles, driving hybrid or alternative fuel vehicles.
- Green Buildings:
 - All City facilities over 10,000 square feet must be designed and built to meet the Leadership in Energy and Environmental Design (LEED) silver standards
 - Dallas is among the first major cities in the U.S. to adopt a comprehensive green building standard for all residential and commercial construction

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EMS: OEQ Training Program (FY10-11)

- 105 OEQ Offered Classes
- 1966 Employees Trained
- 88% Positive Course Evaluation Responses

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Sample of EMS Environmental Performance On Objectives and Targets

Objective	Target	Status
Reduce the amount of water leaks within the potable water system through leak detection programs. (DWU)	Assess 2,000 miles of main line annually.	Ahead - A survey of 1249 miles of pipe found 53 previously unknown leaks and located and marked an additional 22 small leaks which resulted in an estimated total of 20.1 million gallons of water saved.
Decrease NOx, VOC, PM and CO2 emissions from On-Road and Off-Road Vehicles (EBS)	5% for each pollutant (Ongoing)	On Track - During this reporting period, EBS purchased thirty-five (35) Alternative Fuel Vehicles including ten (10) CNG and twenty-five (25) gasoline/electric hybrid vehicles.
Reduce average electrical use per MG treated at Wastewater Treatment Plants. (DWU)	15% (262 KWH/MG) from FY08-09 baseline by 2013	On Track - The energy consumption at CWWTP has been in a slow decrease since December of 2009, with a decrease of 3.8% in 2011. SSWWTP had a steep decrease in energy consumption during 2011, decreasing by 47.8%. This is due in large part to the Co-Gen facility going on-line in February 2011. Co-gen uses methane gas generated by the Wastewater treatment process to generate electricity for use in the plant, and to heat buildings in the plant.
Replace AC powered school zone flashers with solar powered (STS)	Replace 75 school zone flashers from AC powered to solar powered	On Track - 35 Flashers have been replaced so far within four months. With six more months to go, 45% percent of the goal has already been achieved, helping us make positive strides in energy conservation

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Sample of EMS Environmental Performance On Objectives and Targets

Objective	Target	Status
Evaluate Park sites to determine if they are suitable locations for electric vehicle charging stations (PKR)	Provide information to EV charging station vendor.	On Track - On January 11 2012 the City Council approved the installation of 2 recharging stations at Fair Park. The ECOTality installation is scheduled to be completed by summer 2012. The PKR department will work with ECOTality to get more PKR locations added in the phase two process. Dates yet to be determined and OT remains opened.
Reduce Municipal Climate Change Impacts and VMTs (Vehicle Miles Traveled) by 10% from previous year for City Employees. (OEO)	Increase the reduction of CO2 emissions and VMTs by 10% from previous year.	On Track - During the 2010 ozone season, there was a 3,143,721 reduction in VMT. This equals a 926 ton reduction in CO2 emissions. The 2011 ozone season realized a 3,700,000 reduction in VMTs. This equals a 1560 tons reduction in CO2 emissions. Both VMTs and CO2 emissions have been reduced by more than 10%.
Increase the amount of beneficial re-use items diverted from landfill (dirt, concrete, asphalt, saw dust) to increase landfill air space (SAN)	3% increase	Ahead - Year to date total diverted materials = 23,304.73 tons. Landfill is ahead of schedule of meeting the September 2012 baseline. Goal: 30,900 tons
Increase citizen waste diversion through citywide recycling program. (SAN)	30% increase in tons recycled by FY12/13	On Track - A total of 51,269.39 tons of recycled material has been diverted from the landfill. This is a 16.4% increase. Waste Diversion is ahead of schedule in meeting its goal of a 30% increase by September 2013. 2013 goal: 58,698.60 tons

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OEQ Public Outreach Initiatives

- Provides speakers for schools and other organizations on environmental topics (OEQ received 66 speaker requests from Feb 2011 to Feb 2012)
- Provides booths at environmental events such as Earth Day Dallas for distribution of useful environmental information
- Partners with other departments in sponsoring environmental events that educate citizens
- Promotes “green” purchasing when less toxic chemicals will accomplish the same job
- Contributes useful environmental information to the public via the GreenDallas.net website

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Examples of EMS Follow-up Actions from Last Year's Review

- Continue strong Sr. Management support
 - BV will be auditing department directors during the April 2012 audit
- Continue improving effectiveness of training by giving departments options for making up missed training
 - OEQ provided department specific training upon request to maximize participation and meet the training needs of various departments. Examples include Right-to-Know, Hazard Communication, Spill Response, DOT, and Proper Waste Management.
- Develop better methods of monitoring and measuring the key characteristics of departmental significant aspects
 - OEQ evaluated department performance on objectives and targets
- Environmental performance should be the responsibility of the facility management
 - OEQ continues to encourage City facilities to improve their performance
- Improve communication of the City's environmental goals and policies to those working on our behalf (i.e., contractors)
 - OEQ worked with SWM and City University on training for contractors and City project managers. Examples include "Green is Mainstream" and 404/401 Permit Workshops

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EMS: Recommendations for Improvement

- Explore ways to more effectively communicate the City's environmental policies to contractors
- Continue to seek ways to reduce costs associated with City operations by minimizing environmental impacts
- Consider the possibility of bringing additional departments into the EMS (e.g., TWM)
- Increase channels for customer feedback by doing an annual customer survey and holding annual EMS and QMS summits with department management representatives

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Recommendations for Improvement - Internal Audits

- Explore ways to refresh City staff on the importance and successes of the EMS
- Evaluate the feasibility of conducting annual department level management reviews in addition to senior management reviews
- Encourage departments to set quality objectives and targets that demonstrate measurable reductions in environmental impacts
- Help customer departments improve the tracking and performance of their training programs

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Status of Ongoing BV EMS Surveillance Audit So Far - April 2-27, 2012

- OEQ - 2 Minor Nonconformances
- Sanitation - 0 Nonconformances
- Streets - 2 Minor Nonconformances
- Code - 0 Nonconformances
- Police - 3 Minor Nonconformances

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EMS: Appendices

- See separate handout: City of Dallas Environmental Policy
- See separate handout: EMS Objectives and Targets (listing the status of current departmental objectives and targets)

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Questions?



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Environmental Policy

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- ❖ Utilization of Environmental Management Systems, as appropriate for our operations, to provide a framework for systematically reviewing and reducing our environmental footprint.
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Approved by Dallas City Council January 26, 2005.

Signed


Mary K. Suhm
City Manager




Política Ambiental

La Ciudad de Dallas tiene el compromiso de mantener un medio ambiente limpio, seguro y sano. Y por ende atenderemos al cuidado ambiental en nuestras relaciones con los empleados, otros gobiernos, ciudadanos, contratistas de la Ciudad, negocios y otros individuos de la comunidad, para bien de nuestro mundo de hoy y de las futuras generaciones. El cuidado del medio ambiente es uno de nuestros valores esenciales, y eso se demuestra asegurando que nuestras actividades estén en armonía con el mundo natural que nos rodea.

Este compromiso se manifiesta en las siguientes medidas:

- ❖ Puesta en práctica de programas y procedimientos con la intención de cumplir con, o rebasar en el cumplimiento de, todas las leyes y reglamentaciones ambientales pertinentes.
- ❖ Mejora continua de nuestro desempeño ambiental a través de control ambiental proactivo y de autoevaluaciones y/o evaluaciones de terceros.
- ❖ Prevención de la contaminación en su origen mediante la puesta en práctica de las mejores prácticas de control y de medidas de conservación de recursos para reutilizar, recuperar y reciclar materiales que generamos.
- ❖ Utilización de Sistemas de Control Ambiental (Environmental Management Systems), según sea apropiado para nuestras operaciones, a fin de proveer una estructura para revisar y reducir de forma sistemática las huellas que dejamos en el medio ambiente.
- ❖ Los empleados deberán respetar todas las reglamentaciones ambientales y demostrar cumplimiento con lo establecido respecto al medio ambiente en sus prácticas laborales diarias.
- ❖ Educar a los empleados de la Ciudad con relación a las políticas ambientales de Dallas, y motivar y exhortar a los empleados a practicar el cuidado del medio ambiente a través de la elevación de la conciencia y la sensibilidad respecto a los asuntos ambientales mediante políticas, reglamentaciones, capacitación y diálogo interactivo por parte de la Ciudad.
- ❖ Llegar a los ciudadanos y negocios de nuestra comunidad a través de la comunicación de esta Política y de educación sobre la importancia del cuidado del medio ambiente para tener aire y agua limpios y desarrollo sostenible de la Ciudad de Dallas.

Aprobado por el Concejo de la Ciudad de Dallas el 26 de enero de 2005.

Firmado por 
Mary K. Summ
Administradora de la Ciudad

EMS Objectives and Targets
 (for 6-month reporting period ending 01/31/12)

Department	Status			Total
	Ahead	On Track	Behind	
AVI		3	2	5
CCS		1		1
CES		4		4
CIS	1	1		2
DFR		1		1
DMO		2		2
DPD		3		3
DWU	1	4	1	6
EBS		3	1	4
OEQ		2	2	4
PKR		1	1	2
PBW	2	3		5
SAN	2	3		5
STS		6		6
Total	6	37	7	50

EMS Objectives and Targets
(for 6-month reporting period ending 01/31/12)

Objective	Target	Status
Aviation		
Institute a water reuse program	Collection and reuse of approximately 142 million gallons of groundwater each year.	On Track - 10,905,906 gallons of groundwater has been collected for reuse purposes.
Wildlife Hazard Assessment Completion and Wildlife Management Plan as necessary	Completion of Wildlife Hazard Assessment Report.	On Track - Just received draft report for Dallas Love Field for review while Executive Airport wildlife investigation is still ongoing.
Development of a Noise Monitor Replacement Plan and Upgrade of Noise Monitoring System	Instillation of upgraded monitors at 40% of the current noise monitor locations. Upgrade of the Noise Evaluation system to include the use of Virtual Monitors in appropriate places.	Behind - 2 monitors not working correctly. The 2 monitors in question are having phone issues. The status is listed as behind due to a change in staff. The new staff was not aware that the noise monitors needed to be replaced and the software upgraded.
Test and promote clean fleet and emission reduction in Aviation Department	Evaluate new technology for emission reduction, evaluate suggestions from NCTCOG on emission reductions for aviation	On Track - The new concourse is utilizing LEEDS technology. Two electric vehicles have been purchased for Administration to use around Love Field. Solar powered light standards are to be installed along Cedar Springs.
Maintain Environmental Compliance	Zero Administrative Notices of Violations or Enforcements	Behind - A tenant received a letter of Enforcement on a tank that Aviation owns at Executive Airport.
Code Compliance		
Decrease the amount of gasoline fueled vehicles in fleet.	To reduce the department's dependency on gas and diesel-fueled vehicles by 1%	On Track - The goal for the Department of Code Compliance (CCS) is to reduce the amount of non-alternative fueled vehicles in the fleet to ensure reduced dependency on non-alternative fueled vehicles by 1%. For FY10/11 there were a total of 354 vehicles assigned to CCS. Out of the 354 vehicles assigned to CCS, 215 were non-alternative fueled vehicles. FY11/12 there is a total of 362 vehicles assigned to CCS. Out of the 362 vehicles assigned to CCS, 219 are non-alternative fueled vehicles. Four new CNG cars were also added to the fleet. This shows a change of 1.019%. The projected amount for the end of FY11/12 will be a reduction of older non-alternative fueled vehicles for newer CNG (natural gas) vehicles. To also ensure the reduction of non-alternative fueled vehicles CCS will be testing the use of electric vehicles in FY11/12.
Convention and Event Services		
Increase Client and Employee Awareness	5% increase in awareness programs/information material	On Track (Closed) - This OT provided us the opportunity to track and initiate better communication programs regarding EMS. Additionally, we added permanent signs to the facility as well as rotating signs for our staff. At this point, we are using the rotating documents and general facility press releases to continue informing those that visit our venue.
Reduce the amount of water consumed by City facilities	5% water reduction	On Track - DCC reporting of water usage for this current monitoring period is down by an average of 6% this was achieved because of the scheduled conventions, tradeshow, public events with in the facility not requiring any plumbing fills, and having no major water issue..

EMS Objectives and Targets
(for 6-month reporting period ending 01/31/12)

Objective	Target	Status
Reduce the amount of energy consumed by City Facilities (FM)	5% Energy reduction	On Track - FM continues to work on minimizing energy use. The market intends to increase its vendors and those that visit. It should be noted that some energy increase may be noticed as a result of increase business.
Reduce the amount of water consumed by City facilities (FM)	5% water reduction	On Track - Although there was an increase in water use the overall has still been maintained. We decreased 45% last year and increased this year. Using what we have been told as the overall figures applying over the course a few years (30% covers 6 years etc). We are still on track. We have increased the conservation, however the summer heat and the market needing water was important.
CIS - Radio Shop		
Reduce amount of waste generated from use of lead based solder.	Reduce purchases of lead based solder by 10% per year for next 4 years using fy 06-07 purchases of 58 rolls as baseline.	Ahead--0 rolls of lead based solder purchased during this reporting period.
Reduce the amount of waste wire entering normal waste stream.	Increase percentage of waste wire being recycled by 10% per year for next 4 years using fy10-11 as baseline.	On Track - As of Feb 2012, a full bin weighing 1082 lbs was collected for disposal in October and a fresh bin collecting wire is on schedule to be weighed at the end of March 2012 to establish the baseline.
Dallas Fire and Rescue		
Reduce spills and storm water impacts from storage of new oil.	Replace tank	On Track - This OT has been approved and is targeted to be completed before the end of 2012
Dallas Marshall's Office		
Increase paper recycling from Detention Center	Increase shredded paper recycling by 5%	On Track - DMO collected and recycled 1093 lbs of paper in the period August 1, 2011 to January 31, 2012
Decrease the number of petroleum based spills caused by City operations	Reduce the number of petroleum based spills	On Track - 0 spills in reporting period
Dallas Police Department		
Research anti-idling technology for possible future installation Department wide	Install anti-idling technology on one test vehicles to determine the hours of idling reduced, cost savings, costs to operate equipment and potential reduction in emissions per vehicle	On Track - Until funding is approved to install anti-idling technology on fleet vehicles, this OT will remain in the test phase. Funding for the next physical year has been applied for
Increase worker awareness about EMS	Provide training for approx. 2800 employees in FY 10-11 to encourage development and implementation of departmental EMS as well as increase awareness of different environmental issues within the scope of DPD's EMS	On Track - This O/T is considered to be "on-track" because training is a continuous process.
Increase paper recycling department wide	A 2% increase in paper recycling	On Track - Recycling training is being carried out department-wide. Base Line data is also currently being gathered

EMS Objectives and Targets
(for 6-month reporting period ending 01/31/12)

Objective	Target	Status
Dallas Water Utilities		
Reduce the amount of water leaks within the potable water system through leak detection programs.	Assess 2,000 miles of main line annually.	Ahead - This objective is ahead of schedule and on pace to exceed the 2000 mile goal of pipe surveyed per FY. Currently crews have surveyed 1249 miles for the current O&T reporting period noted above. This does not include January, 2012 - totals are not yet available. Survey's have found 53 previously unknown leaks and located and marked an additional 22 small leaks which resulted in an estimated total of 20.1 million gallons of water saved.
Construct batch lime system at Elm Fork Water Treatment Plant	Prevent chemical (lime) pollution to the environment by constructing a closed system	On Track - This project is on schedule and has begun construction. Eagle (the contractor) has demo'd the old ferric silos, feeders and most of the hoists. They've also poured in some of the structural columns in the basement. The submittal for the new equipment has yet to be approved.
Construct batch lime system at Easy Side Water Treatment Plant	Prevent chemical (lime) pollution to the environment by constructing a closed system	On Track - The West Lime system is in service and fully operational at this time. The East Lime system is in a testing phase and is expected to be fully operational by the end of April 2012. The old system is completely offline at this time, but will need to be run periodically to use of the supply of lime contained in it's storage bins before demolition, which is scheduled to commence in late March or early April.
Increase the amount of highly treated wastewater effluent for reuse purposes. (CW)	5 mgd by end of FY13-14	Behind - While this Objective remains behind schedule, progress continues to be made, especially on Phase 2, which increased from 50% to 70% completion since the last semi-annual report. The progress estimates below are provided by Pipeline Project Management Engineer Melvin Machayo, P.E.
Optimize DWU Recycling Program	Increase scrap metal recycled by 100% of FY06-07 baseline, and increase in-house recycling by 10% (Big Blue Program).	On Track - Overall, DWU recycling totals remain at consistently high levels. We remain on track to meet and exceed our recycling goals. Metals recycling remains at a comparable level from the last reporting period, dropping by less than 10%. Fluctuations of that size are normal due to the timing of metals pick-up. Big Blue Recycling (office materials/paper, etc) has increased slightly from 34,130 lbs during May - Jul, 2011 to 38,140 lbs. during Aug - Dec, 2011 (numbers adjusted to compare identical, 5 month time periods). This represents an increase of approximately 11.2%. This is attributable to increased awareness among employees.

EMS Objectives and Targets
(for 6-month reporting period ending 01/31/12)

Objective	Target	Status
Reduce average electrical use per MG treated at Wastewater Treatment Plants.	15% (262 KWH/MG) from FY08-09 baseline by 2013.	On Track - The energy consumption at CWWTP has been in a slow decrease since December of 2009, with a decrease of 3.8% in 2011. We are still developing a plan to further reduce energy use as a result of the Oncor energy audits conducted in 2011, including a program to replace existing end-of-life equipment with high-efficiency motors. SSWWTP to a steep decrease in energy consumption during 2011, decreasing by 47.8%. This is due in large part to the Co-Gen facility going on-line in February, 2011. Co-gen uses methane gas generated by the Wastewater treatment process to generate electricity for use in the plant, and to heat buildings in the plant.
Equipment and Building Services		
Increase the recycling of light bulbs/lamps and ballasts	10% by September 2013	On Track - In FY 2010, 3850 pounds of Non-PCB ballasts were recycled. In FY 2011, 680 pounds of Non-PCB ballasts were recycled. In FY 2010, 1,207 pounds of lamps were recycled. In FY 2011, 478 pounds of lamps were recycled.
Decrease NOx, VOC, PM and CO2 emissions from On-Road and Off-Road Vehicles	5% for each pollutant (Ongoing).	On Track - During this reporting period, EBS purchased thirty-five (35) Alternative Fuel Vehicles including ten (10) CNG and twenty-five (25) gasoline/electric hybrid vehicles.
Increase the quantity of less toxic/non-hazardous chemical products	Increase the Product Substitution Program by 4% by September 2014	On Track - The City of Dallas has reduced their chemical inventory from 2753 to 2750. There were 13 less hazardous or green chemicals added to the Approved/Rejected list during this reporting period.
Develop and implement a fuel conservation program	10 % fuel conservation by 2014	Behind - Baseline has been determined, but actual values remain to be calculated. Fuel conservation messages are being developed.
Office of Environmental Quality		
Reduce greenhouse gas emissions for City operations. (MD)	Reduce greenhouse gas emissions for City operations by 5% in 2010 from baseline year of 2005.	On Track - Procured a consultant, conducted data collection from city departments and community sources, and consultant performed analysis and wrote draft report for city. Report is in draft form and is being reviewed after several revisions.
Reduce Municipal Climate Change Impacts and VMTs reduced by 10% from previous year. (CW)	Increase CO2 emissions reduced and VMTs reduced by 10% from previous year.	On Track - During the 2010 ozone season, there was a 3,143,721 reduction in VMT. This equals a 926 ton reduction in CO2 emissions. The 2011 ozone season realized a 3,700,000 reduction in VMTs. This equals a 1560 tons reduction in CO2 emissions. Both VMTs and CO2 emissions have been reduced by more than 10%.
Park and Recreation		
Evaluate golf course practices and Audubon Cooperative Sanctuary Program - Tenison Golf Course	Evaluate Audubon program and complete certification program.	Behind - The target date for this OT has been pushed back to 9/30/12 due to budget restrictions and staffing issues which prohibited the course from completing the certification.

EMS Objectives and Targets
(for 6-month reporting period ending 01/31/12)

Objective	Target	Status
Evaluate Park sites to determine if they are suitable locations for electric vehicle charging stations	Provide information to EV charging station vendor.	On Track - In December the City Attorney's office determined that the contract needed to be approved by the Park Board and City Council. On January 11 2012 the City Council approved the installation of 2 recharging stations at Fair Park. The ECotality installation is scheduled to be completed by summer 2012. The PKR department will work with Ecotality to get more PKR locations added in the phase two process. Dates yet to be determined and OT remains opened.
Implement a Golf IPM Program based on department guidelines and achieve a reduction in the use of toxic pesticides by golf operations.	Reduce the use of toxic pesticides within golf operations by 2% per year to aid in achieving department target for similar Objective.	Behind - During the reporting period, the IPM did not stay on track. The reason for this appears to be yearly fluctuations in pesticide use due to natural conditions (pest infestations; weather; etc.), as well as new construction and/or renovations, which may increase or decrease pesticide usage. There may also be some reporting errors (amounts entered onto tracking spreadsheet not converted to pounds; amount reported on spreadsheet is the total poundage of a mixture of pesticide and fertilizer rather than only the per cent of pesticide in the mixture; etc.).
Public Works		
Develop and implement an integrated pest management program	Develop IPM to improve handling of pesticides and herbicides and reduce impacts on storm water quality	On Track - Draft plan is being prepared by the city's contractor the Texas A&M Agricultural Extension Service. Once draft is complete and final plan developed, The AES will begin training city staff on the plan.
SWM will conduct routine storm water compliance inspections of city owned/operated "industrial facilities".	SWM will inspect four city owned facilities in FY 10/11	On Track - City facilities are inspected in March and April. At this time, SWM staff is selecting the facilities for inspection and developing inspection plans for each facility
Use SWM outreach programs to educate and inform city employees, contractors, industries, and the residents of the city on methods and techniques to reduce storm water pollution	Total of 150 outreach presentations in FY 10/11	Ahead - SWM outreach is running well ahead of schedule for outreach presentations. However, based on previous years, the second half of the year has limited opportunities for presentations.
Inspect and investigate regulated sources of air pollution in the City of Dallas	300 source investigations in FY10/11	Ahead - Air Pollution Control has exceeded the annual benchmark for the second year in a row. Next year the benchmark needs to be adjusted upwards.
Reduce the environmental impact of construction of City projects	Provide outreach to city contractors using printed materials and other outreach methods. Develop two pamphlets or other documents for training. Distribute to at least ten contractors.	Behind - Preperation of environmental and EMS outreach materials for contractors has been started. In the next reporting period, handouts need to be completed and a schedule for visiting contractors needs to be developed.
Construct Green Buildings according to LEED	Establish tracking for construction of new buildings greater than 20,000 square feet to meet minimum Silver Leeds certification	On Track - In the reporting period construction continues on the City Performance Hall, Fire Station 50, and the White Rock Branch Library. Construction began on the Polk/Wisdom Branch Library. A status table of all projects is attached.

EMS Objectives and Targets
(for 6-month reporting period ending 01/31/12)

Objective	Target	Status
Sanitation		
Increase the amount of beneficial re-use items diverted from the landfill (dirt, concrete, asphalt, saw dust) to increase landfill air space	3% increase	Ahead - Year to date total diverted materials = 23,304.73 tons. Landfill is ahead of schedule of meeting the September 2012 baseline. Goal: 30,900 tons
Reduce pollutant load at the landfill	5% reduction in stormwater pollutant	On Track - On January 31, 2012, Assistant Director Ronald Smith revised the baseline. The baseline was revised to meet TCEQ guidelines. TSS = 100 mg/L and Iron 1.3 mg/L. On January 10, 2012 a visual monitoring/sampling was conducted. TSS = 9 mg/L which indicates a 91% reduction. Iron = .012 mg/L which indicates a 99.99% reduction in landfill pollutant load.
Replace gasoline/diesel fleet with alternative fuel powered vehicles to improve air quality	15% replacement	On Track - For this reporting period, no alternative fuel powered vehicles have been approved for purchase. However, a total of 27 vehicles have been approved by Council for purchase.
Improve air quality by reducing fuel consumption (recycling, refuse and brush)	1% reduction in fuel use	On Track - Monthly fuel usage for October was up 2%, November 9%; however, for the month of December the usage was down -19%. SAN is on target to meet the 1% decrease in fuel usage.
Increase citizen waste diversion through citywide recycling program	30% increase in tons recycled over tonnage collected in FY 09/10	Ahead - A total of 51,269.39 tons of recycled material has been diverted from the landfill. An increase of 16.4%. Waste Diversion is ahead of schedule in meeting its goal of a 30% increase by September 2013. 2013 goal: 58,698.60 tons
Streets		
Recycle Shopping Carts picked up	Track the number of calls received by CRMS for abandoned shopping carts	On Track - results show that a monthly average of <u>18</u> shopping carts were picked up.
Recycle Damaged Guardrails	Track the number of damaged guardrails received by CRMS requesting replacement.	On Track - 2012 results show that <u>755</u> linear feet of damaged guardrails was replaced.
Replace AC powered school zone flashers with solar powered	Replace 75 school zone flashers from AC powered to solar powered	On Track - 35 Flashers have been replaced so far within four months. With six more months to go, 45% percent of the goal has already been achieved, helping us make positive strides in energy conservation
Recycle All Available Concrete Spoils	Determine how much landfill space is saved by recycling concrete spoils.	On Track - reporting period resulted in 13,879 cubic yards of saved landfill space. More Concrete Spoils were recycled in this period in 2011 than the previous year
Recycle All Available Asphalt millings and asphalt related to the in place recycling restoration program	Determine how much landfill space is saved by recycling asphalt spoils	On Track - reporting period resulted in more than 25,114 cubic yards of saved landfill space, which is also greater than the amount reported for the same period in the previous year.
Report Spills by Contractors Working on the Levee System	Number of spills reported by Contractors working on the levee	On Track - 1 spill involving an unknown amount of Milky White Substance was reported on December 30, 2011. It was subsequently cleaned up by the contractor.