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December 2015  
SFR-72/15

# Annual Report of Nonfinancial Data

Fiscal Year Ended August 31, 2015



# **Annual Report of Nonfinancial Data**

Fiscal Year Ended August 31, 2015

Prepared by  
Chief Financial Officer Division

SFR-072/15  
December 2015



**Bryan W. Shaw, Ph.D., P.E.,** *Chairman*  
**Toby Baker,** *Commissioner*  
**Jon Niermann,** *Commissioner*

**Richard A. Hyde, P.E.,** *Executive Director*

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Published and distributed  
by the  
Texas Commission on Environmental Quality  
P.O. Box 13087  
Austin TX 78711-3087

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Bryan W. Shaw, Ph.D., P.E., *Chairman*  
Toby Baker, *Commissioner*  
Jon Niermann, *Commissioner*  
Richard A. Hyde, P.E., *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

December 9, 2015

The Honorable Greg Abbott, Governor  
John Keel, CPA, State Auditor  
Ursula Parks, Director, Legislative Budget Board

Lady and Gentlemen:

We are pleased to submit the Texas Commission on Environmental Quality's *Annual Report of Nonfinancial Data* for the fiscal year ended August 31, 2015, in compliance with the TEX. GOV'T CODE ANN. § 2101.0115 and in accordance with the instructions for completing the *Annual Report of Nonfinancial Data*.

The accompanying report has not been audited and is considered to be independent of the agency's *Annual Financial Report*.

If you have any questions, please contact Ms. Liz Day, Chief Financial Officer, at (512) 239-0299.

Sincerely,

A handwritten signature in black ink that reads "Richard A. Hyde".

Richard A. Hyde, P.E.  
Executive Director



**SECTION I**

**TCEQ AGENCY-SPECIFIC**

**INFORMATION**

-UNAUDITED-

**SCHEDULE OF SPACE OCCUPIED**

**Fiscal Year Ended August 31, 2015**

<u>Location</u>	<u>Address</u>	<u>Name of Lessor</u>	<u>Lease No.</u>	<u>Type</u>
<b>STATE OWNED:</b>				
Austin	12100 Park 35 Circle (Bldg. A)			Office
Austin	12124 Park 35 Circle (Bldg. B/C)			Office
Austin	12118 Park 35 Circle (Bldg. D/E)			Office
Corpus Christi	6300 Ocean Drive, Suite 1200			Office
Houston	5425 Polk Ave, Suite H			Office
El Paso	401 E. Franklin Ave., Suite 560			Office
<b>NON-STATE OWNED:</b>				
Abilene	1977 Industrial Blvd	PAK Harris Enterprises LTD	1110	Office
Amarillo	3918 Canyon Drive	Johnnie Shannon	20116	Office
Austin	12015 Park 35 Circle (Bldg. F)	The Colonnade Office Center	7689	Office
Austin	1700 Hydro Lane	Hart-Hejl Dev	4793	Access RD/Storage
Austin	13107 Dessau Road	Storage Town USA	10460	Storage
Beaumont	3870 Eastex Frwy., Suite 110	William E Wilson	7089	Office
Beaumont	2615 Calder St	Bar C Ranch		Storage
Dallas/Fort Worth	2309 Gravel Riverside Tech Center	Riverbend Complex LLC	10462	Office
Eagle Pass	1152 Ferry Street	Brown Family Trust	9058	Office
Harlingen	1804 W. Jefferson	Jefferson Road Property Investments LLC	9867	Office
Houston	5144 E. Sam Houston Parkway North	Stephen Dennis Fallin	6255	Lab
Laredo	707 Calton Rd.	TRE Ventuno LLC	10626	Office
Lubbock	5012 50th Street, Suite 100	GKW Properties	10767	Office
Midland	9900 W Interstate 20 Ste 100	KW-AFM Properties LLC	20301	Office/Lab/Storage
San Angelo	622 S. Oakes St.	City of San Angelo	9918	Office
San Angelo	5973 Knickerbocker	Red Bluff Storage		Storage
San Antonio	14250 Judson Road	Naomi LP	1402	Office
Stephenville	580-D Lingleville Rd. Ste D	Rick Hale	1622	Office
Tyler	2916 Teague Drive	Jack F Paul Real Estate LLC	9232	Office
Waco	6801 Sanger Avenue, Suite 2500	Sandstone Executive Plaza	6231	Office
Webster	17041 El Camino Real	El Camino LLC	10780	Office
<b>TOTAL</b>				

-UNAUDITED-

<b>Usable Square Feet</b>	<b>FTEs</b>	<b>Rental Cost Per Square Foot</b>	<b>Rental Cost Per Month</b>	<b>Annual Cost</b>
165,720	574	N/A - State-Owned Property		
117,762	408	N/A - State-Owned Property		
93,627	292	N/A - State-Owned Property		
11,164	53	N/A - State-Owned Property		
41,732	205	N/A - State-Owned Property		
7,124	22	N/A - State-Owned Property		
8,805	21	1.0656	\$ 9,382.92	\$ 112,595.04
7,475	27	0.0842	5,989.78	71,877.36
167,074	638	1.4475	241,862.17	2,902,346.04
10,964		0.2871	3,193.88	38,326.56
2,000		0.5997	1,199.33	14,391.96
15,274	62	1.4216	21,719.75	260,637.00
2,160		0.5208	1,125.00	13,500.00
26,084	100	0.7892	20,584.62	247,015.44
1,500	2	0.7192	1,078.85	12,946.20
12,109	35	1.1983	14,510.58	174,126.96
23,160	15	1.1650	26,986.39	323,836.68
5,171	16	1.6733	8,715.21	104,582.52
6,848	20	0.9200	6,302.40	75,628.80
8,882	19	0.9500	8,439.74	101,276.89
7,946	19	0.9825	7,806.94	93,683.28
330		0.4848	160.00	1,920.00
17,020	68	1.6750	28,505.95	342,071.40
2,135	9	0.8592	1,834.43	22,013.16
15,640	52	0.8400	12,773.23	153,278.76
13,225	33	0.8553	12,243.39	146,920.68
1,871	8	1.2250	2,291.62	27,499.44
	<u>2698</u>		<u>\$ 436,706</u>	<u>\$ 5,240,474.17</u>

**PROFESSIONAL/CONSULTING FEES AND LEGAL SERVICE FEES**  
**For the Fiscal Year Ended August 31, 2015**

<u>PAYEE</u>	<u>AMOUNT</u>	<u>PURPOSE</u>
AD ENVIRONMENTAL SERVICES LLC	\$ 37,448.33	ARCHITECTURAL/ENGINEERING SERV
AECOM TECHNICAL SERVICES	1,137,853.31	ARCHITECTURAL/ENGINEERING SERV
AMEC ENVIRONMENT & INFRASTRUCTURE INC	629,678.51	OTHER PROFESSIONAL SERVICES
AMEC FOSTER WHEELER ENVIRONMENT & INFRASTRUCTURE	186,916.77	OTHER PROFESSIONAL SERVICES
AMERICAN SOCIETY FOR TESTING AND MATERIALS	10,000.00	EDUCATIONAL/TRAINING SERVICES
AMERICAN SOCIETY OF AGRONOMY	303.00	EDUCATIONAL/TRAINING SERVICES
AMERICAN WATER WORKS ASSOCIATION	265.00	EDUCATIONAL/TRAINING SERVICES
AMERICAN WATER WORKS ASSOCIATION TEXAS	71,795.60	OTHER PROFESSIONAL SERVICES
ANTEA USA INC	4,224,416.26	ARCHITECTURAL/ENGINEERING SERV
APPLIED WEATHER ASSOCIATES LLC	496,679.59	OTHER PROFESSIONAL SERVICES
AQS INC	2,700.00	OTHER PROFESSIONAL SERVICES
ARTS+LABOR	88,105.20	OTHER PROFESSIONAL SERVICES
ASTM INTERNATIONAL	24,500.00	EDUCATIONAL/TRAINING SERVICES
ATKINS NORTH AMERICA INC	496,419.08	ARCHITECTURAL/ENGINEERING SERV
ATMOSPHERIC AND ENVIRONMENTAL RESEARCH INC	198,039.58	OTHER PROFESSIONAL SERVICES
AUSTIN CULLIGAN	848,057.83	OTHER PROFESSIONAL SERVICES
BANSAR TECHNOLOGIES INC	695,092.00	INFORMATION TECHNOLOGY SERVICES
C & T INFORMATION TECHNOLOGY CONSULTING INC	718,691.25	INFORMATION TECHNOLOGY SERVICES
CARDNO ATC	349,995.55	ARCHITECTURAL/ENGINEERING SERV
CATAPULT SYSTEMS INC	-1,250.00	INFORMATION TECHNOLOGY SERVICES
CB & I ENVIRONMENTAL & INFRASTRUCTURE INC	5,160,093.80	ARCHITECTURAL/ENGINEERING SERV
CB&I GOVERNMENT SOLUTIONS INC	644,755.11	OTHER PROFESSIONAL SERVICES
CFCS LP (DBA CLEAR FORK CONSULTING SERVICES)	24,773.06	OTHER PROFESSIONAL SERVICES
CGI TECHNOLOGIES AND SOLUTIONS INC	244,991.29	INFORMATION TECHNOLOGY SERVICES
CITY OF DALLAS	623,056.04	OTHER PROFESSIONAL SERVICES
CITY OF DALLAS AIR POLLUTION CONTROL	62,574.20	OTHER PROFESSIONAL SERVICES
CITY OF EL PASO	324,771.48	OTHER PROFESSIONAL SERVICES
CITY OF FORT WORTH	382,907.48	OTHER PROFESSIONAL SERVICES
CITY OF HOUSTON	883,962.40	OTHER PROFESSIONAL SERVICES
CITY OF SAN ANTONIO	70,760.88	OTHER PROFESSIONAL SERVICES
CLE ONLINE	268.00	EDUCATIONAL/TRAINING SERVICES
CLERK SUPREME COURT	90.00	EDUCATIONAL/TRAINING SERVICES
CMP MANAGEMENT	4,550.00	EDUCATIONAL/TRAINING SERVICES
CMP MANAGEMENT INC	3,850.00	EDUCATIONAL/TRAINING SERVICES
COLLEGE OF THE MAINLAND	6,360.00	EDUCATIONAL/TRAINING SERVICES
COMPTROLLER OF PUBLIC ACCOUNTS	200.00	EDUCATIONAL/TRAINING SERVICES
COOPER CONSULTING COMPANY	-449,205.00	INFORMATION TECHNOLOGY SERVICES
CRITICAL INFORMATION NETWORK	4,025.00	EDUCATIONAL/TRAINING SERVICES
CRITICAL WATCH	3,750.00	OTHER PROFESSIONAL SERVICES
CULLIGAN OF AUSTIN	19,254.99	OTHER PROFESSIONAL SERVICES
CULLIGAN WATER CONDITIONING	95,549.81	OTHER PROFESSIONAL SERVICES
CUSTOM SOLUTIONS GROUP LLC	6,000.00	EDUCATIONAL/TRAINING SERVICES
D AND H PETROLEUM AND ENVIROMENTAL SVCS E I	47,055.58	OTHER PROFESSIONAL SERVICES
DADE MOELLER & ASSOCIATES INC	3,357.34	OTHER PROFESSIONAL SERVICES
DANIEL B STEPHENS	1,715,535.78	ARCHITECTURAL/ENGINEERING SERV
DANIEL B STEPHENS & ASSOC INC	178,075.87	ARCHITECTURAL/ENGINEERING SERV
DANIEL B STEPHENS & ASSOCIATES	274,635.21	OTHER PROFESSIONAL SERVICES
DEER OAKS EAP SERVICES LLC	39,212.38	OTHER PROFESSIONAL SERVICES
DESERT RESEARCH INSTITUTE	21,937.68	EDUCATIONAL/TRAINING SERVICES
DIGICERT INC	779.00	INFORMATION TECHNOLOGY SERVICES
DIOS DADO ENVIRONMENTAL LTD	528,614.25	OTHER PROFESSIONAL SERVICES
DISPUTE RESOLUTION CENTER	200.00	OTHER PROFESSIONAL SERVICES
EA ENGINEERING SCIENCE AND TECHNOLOGY	929,015.67	ARCHITECTURAL/ENGINEERING SERV
EA ENGINEERING SCIENCE AND TECHNOLOGY INC PBC	318,921.64	ARCHITECTURAL/ENGINEERING SERV
EAGLE PASS ISD	16,000.00	OTHER PROFESSIONAL SERVICES
EMERALD ENVIRONMENTAL SERVICES LTD	197,515.00	OTHER PROFESSIONAL SERVICES
EMPLOYEES RETIREMENT SYSTEM	132,000.00	OTHER PROFESSIONAL SERVICES
ENFOLD SYSTEMS INC	68,505.00	INFORMATION TECHNOLOGY SERVICES
ENFOTECH AND CONSULTING INC	284,377.00	INFORMATION TECHNOLOGY SERVICES
ENGELMANN LAND SERVICES LLC	30,600.00	OTHER PROFESSIONAL SERVICES
ENGINEERED SOFTWARE INC	95.00	EDUCATIONAL/TRAINING SERVICES
ENPROTEC INC/HIBBS AND TODD INC	1,894,385.41	ARCHITECTURAL/ENGINEERING SERV
ENPROTEC/HIBBS & TODD INC	84,038.19	OTHER PROFESSIONAL SERVICES
ENSAFE INC	609,441.26	OTHER PROFESSIONAL SERVICES
ENVIRON INTERNATIONAL CORPORATION	605,363.57	OTHER PROFESSIONAL SERVICES
ENVIRONMENTAL PROTECTION AGENCY	546,994.57	ARCHITECTURAL/ENGINEERING SERV
ERG	947,797.15	OTHER PROFESSIONAL SERVICES
ESI INTERNATIONAL INC	86,372.83	EDUCATIONAL/TRAINING SERVICES
EXECUTIVE INFORMATION SYSTEMS LLC	6,468.00	EDUCATIONAL/TRAINING SERVICES
FAST LANE CONSULTING AND EDUCATION SERVICES INC	2,610.00	EDUCATIONAL/TRAINING SERVICES
FLUKE ELECTRONICS	6,790.00	EDUCATIONAL/TRAINING SERVICES
FOUNDATION FOR CROSS-CONNECTION CONTROL	18,000.00	EDUCATIONAL/TRAINING SERVICES
FUGRO EARTHDATA INC	92,378.00	ARCHITECTURAL/ENGINEERING SERV

**PROFESSIONAL/CONSULTING FEES AND LEGAL SERVICE FEES  
For the Fiscal Year Ended August 31, 2015**

<u>PAYEE</u>	<u>AMOUNT</u>	<u>PURPOSE</u>
GALVESTON COUNTY HEALTH DISTRICT	\$ 84,404.24	OTHER PROFESSIONAL SERVICES
GARTNER INC	8,000.00	INFORMATION TECHNOLOGY SERVICES
GEO STRATA ENVIRONMENTAL CONSULTANTS	128,644.68	OTHER PROFESSIONAL SERVICES
GEO STRATA-INTERA LLC	94,789.97	OTHER PROFESSIONAL SERVICES
GEOENVIROLOGIC CONSULTING LTD	1,074.06	EDUCATIONAL/TRAINING SERVICES
GEOSTRATA ENVIRONMENTAL CONSULTANTS INC	540,988.82	OTHER PROFESSIONAL SERVICES
GRADCO LLC DBA GRADIENT	981,610.45	OTHER PROFESSIONAL SERVICES
GRIMES & ASSOCIATES CONSULTING ENGINEERS	5,201.18	OTHER PROFESSIONAL SERVICES
GRIMES AND ASSOCIATES CONSULTING ENGINEERS LP	575,737.78	ARCHITECTURAL/ENGINEERING SERV
HAZMAT STUDENT LLC	772.80	EDUCATIONAL/TRAINING SERVICES
HOME TEAM SERVICES LLC DBA GLOBAL NETWATCH	1,708.29	INFORMATION TECHNOLOGY SERVICES
HORIZONS SOUTHWEST MANAGEMENT LP	4,740.00	EDUCATIONAL/TRAINING SERVICES
I DRIVE SAFELY LLC	214.96	EDUCATIONAL/TRAINING SERVICES
IMAGE API LLC	41,620.04	OTHER PROFESSIONAL SERVICES
INFORMATION NETWORK INTERNATIONAL INC	53,600.00	INFORMATION TECHNOLOGY SERVICES
INFORMATION SYSTEMS AUDIT & CONTROL ASSOCIATION	45.00	EDUCATIONAL/TRAINING SERVICES
INOUT BOARD LLC	625.00	INFORMATION TECHNOLOGY SERVICES
ISACA	65.00	EDUCATIONAL/TRAINING SERVICES
JET SOFTWARE SOLUTIONS INC	2,396,837.50	INFORMATION TECHNOLOGY SERVICES
KARL BAYER DISPUTE RESOLUTION SPECIALISTS	1,800.00	OTHER PROFESSIONAL SERVICES
KLEINFELDER	29,177.91	OTHER PROFESSIONAL SERVICES
KLEINFELDER CENTRAL INC	14,752.00	OTHER PROFESSIONAL SERVICES
KNOWLEDGENET ENTERPRISES LLC	12,380.00	EDUCATIONAL/TRAINING SERVICES
KOOS & ASSOCIATES INC	53,655.14	OTHER PROFESSIONAL SERVICES
LACOSTA ENVIRONMENTAL LLC	4,950.00	OTHER WITNESS FEES
LAKESIDE MEDIATION CENTER	975.00	OTHER PROFESSIONAL SERVICES
LAW SEMINARS INTERNATIONAL	195.00	EDUCATIONAL/TRAINING SERVICES
LEAK SURVEYS INC	72,823.90	OTHER PROFESSIONAL SERVICES
LEITA HART-FANTA CPA	200.00	EDUCATIONAL/TRAINING SERVICES
LINEBARGER GOGGAN BLAIR SAMPSON LLP	104,603.28	FINANCIAL AND ACCOUNTING SERV
LORMAN EDUCATION SERVICES	328.50	EDUCATIONAL/TRAINING SERVICES
LOWER COLORADO RIVER AUTHORITY	19,308.94	OTHER PROFESSIONAL SERVICES
LTC LEWIS TRAINING AND CONSULTING	500.00	EDUCATIONAL/TRAINING SERVICES
LYNDA COM INC	3,250.00	EDUCATIONAL/TRAINING SERVICES
MARY KATHERINE KENNEDY	350.00	OTHER PROFESSIONAL SERVICES
MATT CHUMCHALL	131.00	EDUCATIONAL/TRAINING SERVICES
MCLANE GROUP	534,988.00	INFORMATION TECHNOLOGY SERVICES
MCLANE GROUP LP	1,380.00	INFORMATION TECHNOLOGY SERVICES
METEOSTAR A DIVISION OF SUTRON CORPORATION	292,444.70	OTHER PROFESSIONAL SERVICES
MICRO ASSIST	295.00	EDUCATIONAL/TRAINING SERVICES
MICROASSIST INC	71,089.00	EDUCATIONAL/TRAINING SERVICES
MIDWEST GEOSCIENCES GROUP	124.00	EDUCATIONAL/TRAINING SERVICES
MILLER ENGINEERS INC DBA SOUDER MILLER & ASSOC	194,601.61	OTHER PROFESSIONAL SERVICES
MIXZON INC	1,798.00	EDUCATIONAL/TRAINING SERVICES
MYERS AND STAUFFER LC	2,000.00	OTHER PROFESSIONAL SERVICES
NAISMITH ENGINEERING INC	26,576.11	OTHER PROFESSIONAL SERVICES
NATIONAL ECONOMIC RESEARCH ASSOCIATES INC	421,269.51	OTHER PROFESSIONAL SERVICES
NATIONAL PARK SERVICE	8,349.86	OTHER PROFESSIONAL SERVICES
NATIONAL PARK SERVICE-LYNDON B JOHNSON NHP	15,432.00	OTHER PROFESSIONAL SERVICES
NEW BRAUNFELS UTILITIES	57,553.39	ARCHITECTURAL/ENGINEERING SERV
NEW HORIZONS COMPUTER LEARNING CENTER OF AUSTIN	27,143.00	EDUCATIONAL/TRAINING SERVICES
NEW HORIZONS COMPUTER LEARNING CENTERS OF AUSTIN	398.00	EDUCATIONAL/TRAINING SERVICES
NOVELL INC	700.00	EDUCATIONAL/TRAINING SERVICES
NXT TEAM INC	1,750.00	EDUCATIONAL/TRAINING SERVICES
OFFICE OF ATTORNEY GENERAL	30,901.25	LEGAL SERVICES
OMEGA PROJECT SOLUTIONS INC	24,637.41	INFORMATION TECHNOLOGY SERVICES
ONLINE CONSULTING INC	33,139.30	EDUCATIONAL/TRAINING SERVICES
OPUS INSPECTION INC	147,500.00	INFORMATION TECHNOLOGY SERVICES
ORACLE AMERICA INC	10,782.80	EDUCATIONAL/TRAINING SERVICES
ORACLE USA	744.80	EDUCATIONAL/TRAINING SERVICES
ORSAT L L C	413,640.00	OTHER PROFESSIONAL SERVICES
PACOTECH INC	3,431,039.03	OTHER PROFESSIONAL SERVICES
PARSON TRANSPORTATION GROUP	149,017.86	OTHER PROFESSIONAL SERVICES
PARSONS TRANSPORTATION GROUP INC	34,300.00	OTHER PROFESSIONAL SERVICES
PATRICK KEEL	1,900.00	OTHER PROFESSIONAL SERVICES
PRECISION MICROGRAPHICS AND IMAGING INC	25,998.60	OTHER PROFESSIONAL SERVICES
PRESIDIO NETWORKED SOLUTIONS GROUP LLC	6,000.00	EDUCATIONAL/TRAINING SERVICES
PROGRESSIVE ENVIRONMENTAL SERVICES INC	1,263,429.78	OTHER PROFESSIONAL SERVICES
PROJECT MANAGEMENT ACADEMY	395.00	EDUCATIONAL/TRAINING SERVICES
PROVIDENCE ENGINEERING AND ENVIRONMENTAL GROUP LLC	43,883.25	OTHER PROFESSIONAL SERVICES
QUANTUM ENVIRONMENTAL CONSULTANTS INC	45,064.30	OTHER PROFESSIONAL SERVICES
RAMBOLL ENVIRON US CORPORATION	145,112.06	OTHER PROFESSIONAL SERVICES
RANGER ENVIRONMENTAL SERVICES INC	954,345.41	ARCHITECTURAL/ENGINEERING SERV

**PROFESSIONAL/CONSULTING FEES AND LEGAL SERVICE FEES  
For the Fiscal Year Ended August 31, 2015**

<u>PAYEE</u>	<u>AMOUNT</u>	<u>PURPOSE</u>
REPRINTS DESK INC	\$ 6,603.69	OTHER PROFESSIONAL SERVICES
ROCKWARE INC	1,500.00	EDUCATIONAL/TRAINING SERVICES
SAN ANTONIO METROPOLITAN HEALTH DISTRICT	318,497.66	OTHER PROFESSIONAL SERVICES
SAP AMERICA INC	1,800.00	EDUCATIONAL/TRAINING SERVICES
SCS ENVIRONMENTAL CONSULTANTS INC	17,510.36	OTHER PROFESSIONAL SERVICES
SHAW ENVIRONMENTAL & INFRASTRUCTURE INC	15,299.40	OTHER PROFESSIONAL SERVICES
SHAW ENVIRONMENTAL INC	579,974.74	ARCHITECTURAL/ENGINEERING SERV
SHEPHERD TECHNICAL SERVICES	90,129.00	OTHER PROFESSIONAL SERVICES
SHI GOVERNMENT SOLUTIONS	88,299.00	CONSULTANT SERVICES-COMPUTER
SIMS & ASSOCIATES WEST INC	107,360.00	OTHER PROFESSIONAL SERVICES
SKILLSOFT CORPORATION	23,033.45	EDUCATIONAL/TRAINING SERVICES
SLA ENVIRONMENTAL SERVICES LTD	43,278.28	OTHER PROFESSIONAL SERVICES
SNAP-ON DIAGNOSTICS	300,000.00	INFORMATION TECHNOLOGY SERVICES
SOLID BORDER INC	2,400.00	CONSULTANT SERVICES-COMPUTER
STATE BAR OF TEXAS	335.00	EDUCATIONAL/TRAINING SERVICES
STORMWIND LLC	2,500.00	EDUCATIONAL/TRAINING SERVICES
SUNCOAST LEARNING SYSTEMS	235.00	EDUCATIONAL/TRAINING SERVICES
SURDEX CORPORATION	300,000.00	OTHER PROFESSIONAL SERVICES
SUSAN S SOUSSAN PC	1,850.00	OTHER PROFESSIONAL SERVICES
SYSTEMS EVOLUTION INC	93,400.00	INFORMATION TECHNOLOGY SERVICES
TALON LPE	381,734.18	ARCHITECTURAL/ENGINEERING SERV
TALON LPE LTD	2,441,708.52	ARCHITECTURAL/ENGINEERING SERV
TECHNICAL MONITORING SERVICES INC	174,476.00	OTHER PROFESSIONAL SERVICES
TELEDYNE INSTRUMENTS INC	4,774.00	EDUCATIONAL/TRAINING SERVICES
TERA	225,462.71	OTHER PROFESSIONAL SERVICES
TERRA-SOLVE INC	40,111.13	OTHER PROFESSIONAL SERVICES
TEXAS A&M AGRILIFE RESEARCH	1,170.00	EDUCATIONAL/TRAINING SERVICES
TEXAS A&M ENGINEERING EXTENSION SERVICE	387,336.00	EDUCATIONAL/TRAINING SERVICES
TEXAS CENTER FOR LEGAL ETHICS & PROFESSIONALISM	45.00	EDUCATIONAL/TRAINING SERVICES
TEXAS COMPTROLLER OF PUBLIC ACCOUNTS	7,073.00	OTHER PROFESSIONAL SERVICES
TEXAS DEPARTMENT OF INFORMATION RESOURCES	9,590,803.46	COMPUTER SERVICES-STATEWIDE TECH. CENTER
TEXAS DESALINATION ASSOCIATION	225.00	EDUCATIONAL/TRAINING SERVICES
TEXAS ENGINEERING EXPERIMENT STATION	7,500.00	EDUCATIONAL/TRAINING SERVICES
TEXAS NATURAL RESOURCE TRUSTEES ACCOUNT	775,083.64	FINANCIAL AND ACCOUNTING SERVICE
TEXAS PARKS & WILDLIFE DEPARTMENT	227,234.00	OTHER PROFESSIONAL SERVICES
TEXAS RURAL WATER ASSOCIATION	1,073,008.76	OTHER PROFESSIONAL SERVICES
TEXAS WORKFORCE COMMISSION	32,542.00	EDUCATIONAL/TRAINING SERVICES
THE NELAC INSTITUTE	175.00	EDUCATIONAL/TRAINING SERVICES
THE SPEARHEAD GROUP INC	221,442.00	INFORMATION TECHNOLOGY SERVICES
THE UNIVERSITY OF TEXAS AT AUSTIN	435.00	EDUCATIONAL/TRAINING SERVICES
THOMSON REUTERS (TAX & ACCOUNTING) INC	96.00	EDUCATIONAL/TRAINING SERVICES
TLI SOLUTIONS INC	237,738.08	OTHER PROFESSIONAL SERVICES
TNRIS TECHNICAL TRAINING	5,070.00	EDUCATIONAL/TRAINING SERVICES
TOM HARDY	25.00	EDUCATIONAL/TRAINING SERVICES
TRADEMARK MEDIA	680.00	INFORMATION TECHNOLOGY SERVICES
TRAINING MAGAZINE	795.00	EDUCATIONAL/TRAINING SERVICES
TUERFF-DAVIS ENVIROMEDIA INC	542,120.98	OTHER PROFESSIONAL SERVICES
UNITED STATES GEOLOGICAL SURVEY	700,195.72	OTHER PROFESSIONAL SERVICES
UNIVERSITY OF TEXAS AT AUSTIN	48,213.00	EDUCATIONAL/TRAINING SERVICES
UNIVERSITY OF TEXAS HEALTH SERVICES	471,525.50	MEDICAL SERVICES
URS CORPORATION	3,516,792.47	ARCHITECTURAL/ENGINEERING SERV
USER INTERFACE ENGINEERING	549.00	EDUCATIONAL/TRAINING SERVICES
UT HEALTH CENTER AT TYLER	17,481.00	MEDICAL SERVICES
UXO PRO INC	39,784.58	OTHER PROFESSIONAL SERVICES
WATEREUSE RESEARCH FOUNDATION	297.00	EDUCATIONAL/TRAINING SERVICES
WEST TEXAS A&M UNIVERSITY	149,245.76	INFORMATION TECHNOLOGY SERVICES
WESTON SOLUTION INC	1,122,877.64	ARCHITECTURAL/ENGINEERING SERV
WESTON SOLUTIONS INC	1,795,599.87	OTHER PROFESSIONAL SERVICES
WILKINS GROUP INC	5,863.30	INFORMATION TECHNOLOGY SERVICES
WORLDWIDE ENVIRONMENTAL PRODUCTS	162,890.00	INFORMATION TECHNOLOGY SERVICES
WRS INFRASTRUCTURE & ENVIRONMENT INC	45,021.80	ARCHITECTURAL/ENGINEERING SERV
X8ENVIRONMENTAL INC	1,043,565.08	ARCHITECTURAL/ENGINEERING SERV
<b>TOTAL PROFESSIONAL AND CONSULTING FEES</b>	<b>\$ 71,615,141.98</b>	
<b>LEGAL SERVICE FEES</b>		
STATE OFFICE OF ADMINISTRATIVE HEARINGS	348,473.32	
SOMACH SIMMONS & DUNN	2,416,687.13	
<b>TOTAL LEGAL SERVICES FEES</b>	<b>\$ 2,765,160.45</b>	
<b>TOTAL PROFESSIONAL CONSULTING AND LEGAL SERVICES FEES REPORTED ON ANNUAL FINANCIAL REPORT</b>	<b>\$ 74,380,302.43</b>	

-UNAUDITED-

**SCHEDULE OF ITEMIZED PURCHASES (PROPRIETARY PURCHASES)**  
**Fiscal Year Ended August 31, 2015**

<u>Vendor Name</u>	<u>Amount</u>	<u>Purpose</u>	<u>Justification</u>
CLIMATRONICS CORP	\$ 9,987.25	Parts for Monitoring Network	Extensive testing would be required to change equipment or components and could take years to complete.
SIMBA INDUSTRIES	\$ 9,177.80	Air Monitoring Parts	Other brands do not last as long or required additional equipment.
ALL BUSINESS MACHINES	\$ 46,121.00	Software and Hardware Maintenance	Other vendors do not provide the proprietary Remote Advisor-Assist/Report/Alert real-time remote troubleshooting and diagnostics tool and software upgrades.
TELEDYNE ADVANCED POLLUTION INSTRUMENTATION	\$ 9,503.00	Ozone Analyzer	Extensive testing would be required to change equipment or components and could take years to complete.
ENTECH INSTRUMENTS	\$ 24,308.10	Canisters	Other brands are not as reliable in meeting requirements of testing program.
TELEDYNE INSTRUMENTS, INC.	\$ 122,285.00	Analyzers	TCEQ currently stacks parts for this model.
TELEDYNE INSTRUMENTS, INC.	\$ 43,981.20	Dynamic Dilution Calibrator Parts	The parts and software for this equipment is only available from the manufacturer.
JOHNSTONE SUPPLY	\$ 19,750.93	HAVC units and parts	Other brands will not be a direct replacement to meet the dimensions required when installed.
PRODUCTS UNLIMITED INC	\$ 54,783.70	Air Monitoring Equipment Parts	Must have this brand and model due to compatibility with existing equipment.
THERMO ENVIRONMENTAL INSTRUMENTS INC.	\$ 259,746.10	TEOM 1405 instrument and parts	Extensive testing is required to change equipment or components and is currently in process. This is the only equipment that is known to meet testing requirements.
EXPOTECH USA INC	\$ 15,684.40	Outdoor shelter with vacuum pump mounting package	This is the only equipment that has protected equipment in housing. The only other known brand leaked and damaged equipment.
ATEC	\$ 21,665.00	Carbonyl Sampler	This is the only manufacturer of this piece of equipment.

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**SCHEDULE OF ITEMIZED PURCHASES (PROPRIETARY PURCHASES)**  
**Fiscal Year Ended August 31, 2015**

<u>Vendor Name</u>	<u>Amount</u>	<u>Purpose</u>	<u>Justification</u>
ALL BUSINESS MACHINES	\$ 162,931.87	Gas Chromatograph and Mas Spectrometer System	This is the only equipment that has been qualified by the TCEQ Air laboratory for use in this method.
BAYTECH SUPPLY, INC.	\$ 42,945.00	Parts for Gas Chromatograph	This is the only equipment that has the software and hardware to allow for remote control of site.
CLIMATRONICS CORP	\$ 8,519.25	Parts for Wind Speed Sensors	The parts and software for this equipment is only available from the manufacturer.
GOVERNMENT SCIENTIFIC SOURCE, INC.	\$ 15,852.71	Sep-Pak DNPH Cartridges	This is the only equipment that has been qualified by the TCEQ Air laboratory for use in this method.
MET ONE INSTRUMENTS	\$ 6,132.50	Flow controller assembly	This is the only equipment approved by the manufacturer.
TELEDYNE ADVANCED POLLUTION INSTRUMENTATION	\$ 9,960.00	Parts for Teledyne Analyzers	This is the only manufacturer of the parts for this piece of equipment.
MET ONE INSTRUMENTS	\$ 7,596.90	Parts for Met One Sampler	This is the only equipment approved by the manufacturer. Third party monitors lacked service/features.
EXELIS VISUAL INFORMATION SOLUTION	\$ 9,990.00	Software Maintenance for ENVI and IDL	Only Exelis has the IDL language which serves a dual role for the modeling team. ENVI is the image processing software used with aerial and satellite imagery. The TCEQ uses both software in essential programming to the LINUX computing system in SIP development.
LEGAL FILES SOFTWARE, INC.	\$ 21,393.00	Software Maintenance	Legal Files Software, Inc. is the only vendor that can provide maintenance and support of its proprietary software.

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**HUB STRATEGIC PLAN PROGRESS REPORT  
For the Year Ended August 31, 2015**

Goal = Strategic Plan HUB Goal Actual = % Spent with HUBs from HUB Report	Actual for FY 2014	Actual for FY 2015	Goal for FY 2016
Heavy Construction other than building contracts	N/A	N/A	N/A
Building construction, including general contractors and operative builders contracts	N/A	N/A	N/A
Special trade construction contracts	N/A	N/A	N/A
Professional services contracts	20.06 %	12.39%	23.7%
Other services contracts	34.17%	35.02%	26.0%
Commodities contracts	31.19%	41.99%	21.1%

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Phone Number: (512) 239-4866

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**APPROPRIATION ITEM TRANSFER SCHEDULE**  
**Fiscal Year Ended August 31, 2015**

Item of Appropriation (Strategies)	<u>Transfers In</u>	<u>Transfers Out</u>	<u>Net Transfers</u>
<b>A. Goal: Assessment, Planning and Permitting</b>			
Strategies:			
A.1.1. 13034 Air Quality Assessment and Planning	\$ 46,000.00	\$ (1,815,292.24)	\$ (1,769,292.24)
A.1.2. 13035 Water Assessment and Planning	208,304.00	(1,066,797.00)	(858,493.00)
A.1.3. 13036 Waste Assessment and Planning		(833,546.46)	(833,546.46)
A.2.1. 13031 Air Quality Permitting	41,977.00	(163,973.00)	(121,996.00)
A.2.2. 13032 Water Resource Permitting	864,963.00		864,963.00
A.2.3. 13033 Waste Management and Permitting	6,976.00	(633,634.00)	(626,658.00)
A.2.4. 13043 Occupational Licensing			0.00
A.3.1. 13038 Low-Level Radioactive Waste		(1,355.63)	(1,355.63)
<b>Total Goal A: Assessment, Planning and Permitting</b>	<u>\$ 1,168,220.00</u>	<u>\$ (4,514,598.33)</u>	<u>\$ (3,346,378.33)</u>
<b>B. Goal: Drinking Water &amp; Water Utilities</b>			
Strategies:			
B.1.1. 13039 Safe Drinking Water	\$ 8,002.00	\$ (514,373.00)	\$ (506,371.00)
B.1.2. 13040 Water Utilities Oversight	372,479.00	(250,000.00)	122,479.00
<b>Total Goal B: Drinking Water &amp; Water Utilities</b>	<u>\$ 380,481.00</u>	<u>\$ (764,373.00)</u>	<u>\$ (383,892.00)</u>
<b>C. Goal: Enforcement and Compliance</b>			
Strategies:			
C.1.1. 13041 Field Inspections and Complaints	\$ 5,187,161.46	\$ (1,691,106.92)	\$ 3,496,054.54
C.1.2. 13042 Enforcement and Compliance Support	1,179,598.19	(1,168,360.00)	11,238.19
C.1.3. 13037 Pollution Prevention Recycling	244,072.63	(7,375.00)	236,697.63
<b>Total Goal C: Enforcement and Compliance</b>	<u>\$ 6,610,832.28</u>	<u>\$ (2,866,841.92)</u>	<u>\$ 3,743,990.36</u>
<b>D. Goal: Pollution Cleanup</b>			
Strategies:			
D.1.1. 13044 Storage Tank Admin & Cleanup	\$	\$ (491,712.00)	\$ (491,712.00)
D.1.2. 13046 Hazardous Materials Cleanup	187,251.00	(90,160.00)	97,091.00
<b>Total Goal D: Pollution Cleanup</b>	<u>\$ 187,251.00</u>	<u>\$ (581,872.00)</u>	<u>\$ (394,621.00)</u>
<b>E. Goal: River Compact Commission</b>			
Strategies:			
E.1.1. 13050 Canadian River Compact	\$	\$ (2,172.00)	\$ (2,172.00)
E.1.2. 13051 Pecos River Compact	2.99	(1,222.00)	(1,219.01)
E.1.3. 13052 Red River Compact	2,066.00		2,066.00
E.1.4. 13053 Rio Grande River Compact	1,852.00		1,852.00
E.1.5. 13054 Sabine River Compact		(526.99)	(526.99)
<b>Total Goal E: River Compact Commission</b>	<u>\$ 3,920.99</u>	<u>\$ (3,920.99)</u>	<u>\$ 0.00</u>
<b>F. Goal: Indirect Administration</b>			
Strategies:			
F.1.1. 13800 Central Administration	\$ 1,438,960.17	\$ (601,600.00)	\$ 837,360.17
F.1.2. 13801 Information Resources	95,022.81	(514,144.09)	(419,121.28)
F.1.3. 13802 Other Support Services		(37,337.92)	(37,337.92)
<b>Total Goal F: Indirect Administration</b>	<u>\$ 1,533,982.98</u>	<u>\$ (1,153,082.01)</u>	<u>\$ 380,900.97</u>
<b>Net Appropriation Item Transfers</b>	<u>\$ 9,884,688.25</u>	<u>\$ (9,884,688.25)</u>	<u>\$ 0.00</u>

\* This schedule does not include Benefit Replacement Pay, Rider Reduction, Salary Increase or Longevity Transfers.

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**SCHEDULE OF VEHICLES PURCHASED**  
**Fiscal Year Ended August 31, 2015**

<b>Make</b>	<b>Model</b>	<b>Quantity</b>	<b>Purchase Price</b>	<b>Type of Use</b>	<b>Fuel Efficiency In Average Miles per Gallon</b>
Chevrolet	Silverado	1	\$ 23,940.00	Special Investigation	18/24
Chevrolet	Silverado	1	23,940.00	Special Investigation	18/24
Ford	F150	1	27,568.88	Field Investigation	14/19
Ford	F150	1	19,311.25	Field Investigation	14/19
Ford	F150	1	20,231.77	Field Investigation	14/19
Ford	F150	1	19,662.21	Field Investigation	14/19
Ford	F550	1	38,472.00	Field Investigation	17/22
Ford	F150	1	19,311.25	Field Investigation	15/21
Chevrolet	Silverado	1	28,212.00	Field Investigation	18/24
Chevrolet	Silverado	1	27,051.00	Field Investigation	18/24
Chevrolet	Equinox	1	23,999.00	Field Investigation	16/23
Chevrolet	Silverado	1	25,870.00	Field Investigation	18/24
Chevrolet	Silverado	1	25,870.00	Field Investigation	18/24
Chevrolet	Silverado	1	26,195.00	Field Investigation	18/24
Chevrolet	Silverado	1	26,195.00	Field Investigation	18/24
Chevrolet	Silverado	1	24,382.00	Field Investigation	18/24
Chevrolet	Silverado	1	24,382.00	Field Investigation	18/24
Chevrolet	Silverado	1	24,382.00	Field Investigation	18/24
Ford	F150	1	24,954.00	Field Investigation	18/25
Chevrolet	Silverado	1	23,212.00	Field Investigation	18/24
Ford	Escape	1	18,413.00	Field Investigation	22/31
Ford	Escape	1	18,413.00	Field Investigation	22/31
Ford	Escape	1	18,413.00	Field Investigation	22/31
Ford	Expedition	1	36,958.10	Field Investigation	16/22
Ford	Expedition	1	26,461.61	Field Investigation	16/22
Chevrolet	Equinox	1	22,364.00	Central Administration	16/23
Chevrolet	Silverado	1	26,757.00	Field Investigation	18/24
Chevrolet	Silverado	1	24,560.00	Field Investigation	18/24
Ford	Escape	1	18,413.00	Field Investigation	22/31
Ford	Escape	1	18,413.00	Field Investigation	22/31
Chevrolet	Impala	1	18,207.00	Central Administration	N/A
Chevrolet	Impala	1	18,207.00	Central Administration	N/A

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**INDIRECT COST SCHEDULE**  
**Fiscal Year Ended August 31, 2015**

**A. Payroll Related Costs**

FICA Employer Matching Contribution	\$	11,560,608	
Group Health Insurance		18,905,294	
Additional Payroll Retirement Contribution		719,921	
Payroll Health Insurance Contribution		1,446,356	
Retirement		11,118,729	
Unemployment		77,900	
<b>Total Payroll Related Costs</b>			\$ 43,828,808

Workers' Compensation	\$	277,566	
Benefit Replacement Pay (BRP)		614,159	
<b>Total Worker's Compensation and BRP</b>			\$ 891,727

**B. Indirect Costs**

Bond Debt Service Payments - TFC	\$	-	
TPFA		-	
<b>Total Indirect Costs</b>			\$ -

**C. Indirect Costs - Statewide Full Cost Allocation Plan**

Building Depreciation	\$	1,031,706	
CPA Fiscal and ITD		1,169,298	
CPA Purchasing & Support (TPASS)		39,924	
CPA Rebates		(42,025)	
Department of Public Safety Capitol Security		866	
TFC Planning & Real Estate Management		308,013	
OOG BPP & Financial Accountability		6,466	
<b>Total Indirect Costs - Statewide Full Cost Allocation Plan</b>			\$ 2,514,248

**TOTAL INDIRECT COSTS** \$ 47,234,783

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## Alternative Fuel Vehicle Progress Report Fiscal Year Ended August 31, 2015

Beginning in fiscal year 2010, a new annual reporting requirement was established pursuant to House Bill 432, 81st Legislature, Regular Session that changed Texas Government Code Section 2158.005. State agencies that operate a fleet of more than 15 motor vehicles, excluding law enforcement and emergency vehicles, must report their progress towards achieving at least 50% of their eligible motor vehicles using compressed natural gas, liquefied natural gas, liquefied petroleum gas, methanol or methanol/gasoline blends of 85 percent or greater, ethanol or ethanol/gasoline blends of 85 percent or greater, biodiesel or biodiesel/diesel blends of 20 percent or greater, or electricity, including electricity to power a plug-in hybrid motor vehicle.

The TCEQ fleet consisted of 391 motor vehicles, of which 236, or 61%, are considered alternative fuel vehicles. The total eligible motor vehicles subject to the statute is 68, of which 56, or 82%, are considered alternative fuel vehicles, thereby exceeding the requirement of this statute. All motor vehicles are purchased and there were no leases or recent alternative fuel conversion on any of the TCEQ's vehicles. On the following page is an itemized listing of the eligible vehicles.

The agency's Liquefied Petroleum Gas (LPG) usage has decreased due to a limited number of facilities that repair outdated LPG converted vehicles and the agency's decision to replace the outdated LPG vehicles by purchasing newer, fuel efficient vehicles. The E85 and Biodiesel fuels are not readily available throughout the State of Texas. The agency currently has 27, or 40% of 68 eligible vehicles that are considered hybrids.

The agency exceeds the required 50% of alternative fuel vehicles, but fuel availability remains a concern for the agency. There are many LPG fueling stations throughout Texas, however, many of these stations operate only Monday through Friday from 8:00 a.m. to 5:00 p.m. and most do not accept the new Voyager Fleet Card. Fuel vendors are conducting plans to install 24-hour LPG stations along major routes in Texas. Currently, there are only a few vendors who dispense E85 fuel and **accepting** the new Voyager Fleet Card.

### Schedule of Fuel Consumption – Total Motor Vehicle Fleet Fiscal Years Ended 2014 and 2015

<b>FY 2014</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>
Gas/Diesel	14,606	20,354	16,109	12,220	14,447	15,170	16,795	18,119	20,751	19,474	19,817	18,998
LPG/E85	132	76	60	20	12	57	61	88	43	96	96	55
Total Fuel	14,738	20,430	16,169	12,240	14,459	15,227	16,856	18,207	20,794	19,570	19,913	19,053
Total Miles	257,653	346,373	252,267	201,219	247,292	236,057	284,335	329,067	332,231	330,573	343,519	328,060
Avg. MPG	17	17	16	16	17	15	17	18	16	17	17	17
<b>FY 2015</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>
Gas/Diesel	15,699	21,860	14,899	14,909	15,254	15,535	16,224	18,438	19,050	18,948	21,083	18,385
LPG/E85	88	21	0	0	60	59	0	53	0	102	59	31
Total Fuel	15,787	21,881	14,899	14,909	15,313	15,594	16,224	18,491	19,050	19,050	21,142	18,416
Total Miles	294,486	262,990	262,590	238,593	256,623	270,097	284,462	305,925	230,219	289,918	286,394	258,947
Avg. MPG	19	12	18	16	17	17	17	16	12	15	14	14

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**VEHICLES ELIGIBLE FOR ALTERNATIVE FUEL REPORTING REQUIREMENT  
FISCAL YEAR ENDED AUGUST 31, 2015**

Physical Location	Alternative Fuel		Year	Make	Model	Asset #	Vehicle Class	Acquisition Date	Tier Bin	
	Fuel Type	Capable								
CENTRAL OFFICE	Unleaded for Gas Hybrid	Yes	2008	FORD	ESCAPE HYBRID	046543	707 - SPORTS UTILITY VEHICLES	10/31/2005	2	3
SAN ANTONIO	E85	Yes	2008	CHEV	UPLANDER	046978	716 - MINI-VANS	6/23/2008	2	5
LUBBOCK	E85	Yes	2008	CHEV	UPLANDER	046558	716 - MINI-VANS	8/18/2008	2	5
DFW	E85	Yes	2008	CHEV	UPLANDER	046578	716 - MINI-VANS	7/22/2008	2	5
MIDLAND	E85	Yes	2008	CHEV	UPLANDER	046579	716 - MINI-VANS	7/22/2008	2	5
CORPUS CHRISTI	Unleaded	Yes	2008	DODG	DAKOTA QUAD CAB	046983	709 - LIGHT TRUCKS GVWR 8600 LBS AND UNDE	7/21/2008	2	8
TYLER	Unleaded for Gas Hybrid	Yes	2009	FORD	ESCAPE HYBRID	046573	707 - SPORTS UTILITY VEHICLES	1/14/2009	2	3
HOUSTON	Unleaded for Gas Hybrid	Yes	2009	FORD	ESCAPE HYBRID	046593	707 - SPORTS UTILITY VEHICLES	12/30/2008	2	3
HOUSTON	Unleaded for Gas Hybrid	Yes	2009	FORD	ESCAPE HYBRID	046594	707 - SPORTS UTILITY VEHICLES	1/9/2009	2	3
DFW	Unleaded for Gas Hybrid	Yes	2009	FORD	ESCAPE HYBRID	046567	707 - SPORTS UTILITY VEHICLES	11/24/2008	2	3
DFW	Unleaded for Gas Hybrid	Yes	2009	FORD	ESCAPE HYBRID	046568	707 - SPORTS UTILITY VEHICLES	12/3/2008	2	3
EL PASO	Unleaded for Gas Hybrid	Yes	2009	FORD	ESCAPE HYBRID	046577	707 - SPORTS UTILITY VEHICLES	12/9/2008	2	3
SAN ANTONIO	Unleaded for Gas Hybrid	Yes	2009	FORD	ESCAPE HYBRID	046977	707 - SPORTS UTILITY VEHICLES	1/2/2009	2	3
CORPUS CHRISTI	Unleaded for Gas Hybrid	Yes	2009	FORD	ESCAPE HYBRID	046980	707 - SPORTS UTILITY VEHICLES	12/31/2008	2	3
HOUSTON	Unleaded for Gas Hybrid	Yes	2009	FORD	ESCAPE HYBRID	046591	707 - SPORTS UTILITY VEHICLES	12/30/2008	2	3
HOUSTON	Unleaded for Gas Hybrid	Yes	2009	FORD	ESCAPE HYBRID	046592	707 - SPORTS UTILITY VEHICLES	12/30/2008	2	3
HOUSTON	Unleaded for Gas Hybrid	Yes	2009	TOYO	PRIUS	047800	701 - PASSENGER CARS	4/28/2009	2	3
HOUSTON	Unleaded for Gas Hybrid	Yes	2009	TOYO	PRIUS	047799	701 - PASSENGER CARS	4/28/2009	2	3
HOUSTON	Unleaded for Gas Hybrid	Yes	2009	TOYO	PRIUS	047801	701 - PASSENGER CARS	4/28/2009	2	3
SAN ANTONIO	Unleaded for Gas Hybrid	Yes	2009	FORD	ESCAPE HYBRID	047796	707 - SPORTS UTILITY VEHICLES	7/10/2009	2	3
HARLINGEN	Unleaded	No	2010	DODG	CARAVAN	048447	716 - MINI-VANS	11/25/2009	2	5
AMARILLO	Unleaded	No	2010	FORD	FOCUS	048659	701 - PASSENGER CARS	4/13/2010	2	3
AMARILLO	Unleaded	No	2010	FORD	FOCUS	048660	701 - PASSENGER CARS	4/13/2010	2	3
CENTRAL OFFICE	Unleaded	Yes	2010	CHEV	IMPALA	048917	701 - PASSENGER CARS	6/7/2010	2	4
CENTRAL OFFICE	Unleaded	Yes	2010	CHEV	IMPALA	048918	701 - PASSENGER CARS	6/7/2010	2	4
CENTRAL OFFICE	Unleaded for Gas Hybrid	Yes	2006	CHEV	SILVERADO HYBRID	044340	709 - LIGHT TRUCKS GVWR 8600 LBS AND UNDE	3/1/2006	2	5
CENTRAL OFFICE	Unleaded	Yes	2006	CHEV	IMPALA	044366	701 - PASSENGER CARS	3/24/2006	2	5
HOUSTON	Unleaded	Yes	2006	FORD	F150	044342	709 - LIGHT TRUCKS GVWR 8600 LBS AND UNDE	3/24/2006	2	8
WACO	Unleaded	Yes	2006	FORD	F150	044326	709 - LIGHT TRUCKS GVWR 8600 LBS AND UNDE	4/12/2006	2	8
WACO	Unleaded	Yes	2006	FORD	F150	044330	709 - LIGHT TRUCKS GVWR 8600 LBS AND UNDE	4/24/2006	2	8
CENTRAL OFFICE	Unleaded for Gas Hybrid	Yes	2006	FORD	ESCAPE HYBRID	044339	707 - SPORTS UTILITY VEHICLES	5/17/2006	2	4
WACO	Unleaded	Yes	2006	FORD	F150	044328	709 - LIGHT TRUCKS GVWR 8600 LBS AND UNDE	5/16/2006	2	8
WACO	Unleaded	Yes	2006	FORD	F150	044327	709 - LIGHT TRUCKS GVWR 8600 LBS AND UNDE	5/16/2006	2	8
BEAUMONT	Unleaded for Gas Hybrid	Yes	2009	FORD	ESCAPE HYBRID	046586	707 - SPORTS UTILITY VEHICLES	1/6/2009	2	3
BEAUMONT	Unleaded for Gas Hybrid	Yes	2009	FORD	ESCAPE HYBRID	046585	707 - SPORTS UTILITY VEHICLES	1/6/2009	2	3
BEAUMONT	Unleaded for Gas Hybrid	Yes	2009	FORD	ESCAPE HYBRID	046587	707 - SPORTS UTILITY VEHICLES	1/9/2009	2	3
BEAUMONT	Unleaded	No	2010	DODG	CARAVAN	048446	716 - MINI-VANS	11/17/2009	2	5
WACO	Unleaded	No	2010	FORD	ESCAPE	049578	707 - SPORTS UTILITY VEHICLES	8/15/2010	2	5
ABELINE	Unleaded	No	2011	FORD	FOCUS	049520	701 - PASSENGER CARS	7/27/2010	2	3
HARLINGEN	Unleaded	No	2010	FORD	EXPEDITION	049572	707 - SPORTS UTILITY VEHICLES	7/12/2010	2	8
HOUSTON	Unleaded for Gas Hybrid	Yes	2009	FORD	ESCAPE HYBRID	046590	707 - SPORTS UTILITY VEHICLES	12/23/2008	2	3
CORPUS CHRISTI	Unleaded	No	2010	FORD	FUSION	051816	701 - PASSENGER CARS	2/14/2011	2	5
SAN ANTONIO	Unleaded	Yes	2011	CHEV	IMPALA	051817	701 - PASSENGER CARS	2/10/2011	2	4
EL PASO	Unleaded	Yes	2011	FORD	ECONOLINE	052159	708 - CARGO AND PASSENGER VANS 708	3/8/2011	2	8
CENTRAL OFFICE	Unleaded for Gas Hybrid	Yes	2009	CHEV	MALIBU HYBRID	052185	701 - PASSENGER CARS	3/29/2011	2	5
CENTRAL OFFICE	Unleaded for Gas Hybrid	Yes	2009	CHEV	MALIBU HYBRID	052186	701 - PASSENGER CARS	3/29/2011	2	5
CENTRAL OFFICE	Unleaded	Yes	2011	CHEV	IMPALA	052194	701 - PASSENGER CARS	4/6/2011	2	4
CENTRAL OFFICE	Unleaded	Yes	2011	CHEV	IMPALA	052192	701 - PASSENGER CARS	4/6/2011	2	4
CENTRAL OFFICE	Unleaded	Yes	2011	CHEV	IMPALA	052193	701 - PASSENGER CARS	4/6/2011	2	4
MIDLAND	Unleaded	No	2011	CHEV	HHR	052201	701 - PASSENGER CARS	4/29/2011	2	5
LUBBOCK	Unleaded	No	2012	FORD	FOCUS	052262	701 - PASSENGER CARS	5/20/2011	2	3
582 - TCEQ	Unleaded	No	2011	CHEV	HHR	052200	701 - PASSENGER CARS	4/29/2011	2	5
582 - TCEQ	Unleaded for Gas Hybrid	Yes	2014	FORD	FUSION HYBRID	053769	701 - PASSENGER CARS	3/13/2014	2	3
582 - TCEQ	Unleaded for Gas Hybrid	Yes	2014	FORD	FUSION HYBRID	053770	701 - PASSENGER CARS	3/17/2014	2	3
582 - TCEQ	Unleaded	Yes	2014	FORD	TAURUS	053772	701 - PASSENGER CARS	3/21/2014	2	5
582 - TCEQ	Unleaded	Yes	2014	FORD	TAURUS	053771	701 - PASSENGER CARS	3/21/2014	2	5
SAN ANGELO	Unleaded	Yes	2008	CHEV	UPLANDER	046555	716 - MINI-VANS	8/18/2008	2	5
MIDLAND	Unleaded	Yes	2006	FORD	F150	044322	709 - LIGHT TRUCKS GVWR 8600 LBS AND UNDE	5/24/2006	2	8
582 - TCEQ	Unleaded	No	2015	CHEV	EQUINOX	054580	707 - SPORTS UTILITY VEHICLES	5/28/2015	2	6
HOUSTON	Unleaded	Yes	2006	FORD	F150	044341	709 - LIGHT TRUCKS GVWR 8600 LBS AND UNDE	3/24/2006	2	8
HOUSTON	Unleaded	Yes	2006	FORD	F150	044343	709 - LIGHT TRUCKS GVWR 8600 LBS AND UNDE	3/24/2006	2	8
HOUSTON	Unleaded for Gas Hybrid	Yes	2006	FORD	ESCAPE HYBRID	044344	707 - SPORTS UTILITY VEHICLES	4/19/2006	2	4
HOUSTON	Unleaded for Gas Hybrid	Yes	2006	FORD	ESCAPE HYBRID	044345	707 - SPORTS UTILITY VEHICLES	5/15/2006	2	4
CORPUS CHRISTI	E85	Yes	2008	CHEV	UPLANDER	046982	716 - MINI-VANS	6/30/2008	2	5
582 - TCEQ	Unleaded	Yes	2016	CHEV	IMPALA	054628	701 - PASSENGER CARS	7/15/2015	2	5
582 - TCEQ	Unleaded	Yes	2016	CHEV	IMPALA	054627	701 - PASSENGER CARS	7/15/2015	2	5
CORPUS CHRISTI	E85	Yes	2008	CHEV	UPLANDER	046981	716 - MINI-VANS	6/30/2008	2	5
AMARILLO	Unleaded	Yes	2008	CHEV	UPLANDER	046556	716 - MINI-VANS	8/18/2008	2	5

**SECTION II**

**STATEWIDE INFORMATION**

**REPORTABLE BY TCEQ**

-UNAUDITED-

## Analysis of Alternative Fuel Usage Reported by Agencies Fiscal Year Ended August 31, 2015

Beginning in fiscal year 2010, a new requirement was established pursuant to House Bill 432, 81st Legislature, Regular Session that changed Texas Government Code Section 2158.005. This requirement states that the TCEQ shall collect reasonable information needed to determine the air quality benefits from use of compressed natural gas, liquefied natural gas, liquefied petroleum gas, methanol or methanol/gasoline blends of 85 percent or greater, ethanol or ethanol/gasoline blends of 85 percent or greater, biodiesel or biodiesel/diesel blends of 20 percent or greater, or electricity, including electricity to power a plug-in hybrid motor vehicle, at affected agencies.”

The following analysis is based on vehicle data reported by impacted agencies in the Texas Fleet System maintained by the Comptroller of Public Accounts. This data is required to be reported by state agencies that operate a fleet of more than 15 motor vehicles, excluding law enforcement and emergency vehicles. Many agencies are not required to report data because their vehicles do not fall within the requirements of the statute. The TCEQ extracted the vehicle information from the Texas Fleet System to prepare this analysis and reflects data reported by impacted agencies.

### **Benefits Derived From Alternative Fuels**

Air quality benefits are not automatically achieved by switching from the use of gasoline or diesel to a different form of hydrocarbon fuel. Federal emission certification is fuel neutral in the sense that the same set of standards must be met regardless of the type of fuel that powers the vehicle. Provided below is a short summary of the current Federal Tier 2 emission standards (<http://www.epa.gov/tier2/>) for light-duty passenger vehicles that began entering the fleet during the 2004 model year:

- They are based on a 0.07 grams per mile (gpm) full useful life (120,000 mile) fleet average nitrogen oxides (NO<sub>x</sub>) standard;
- Vehicles are assigned to various “bins” with Bin 5 considered the “average bin” because it’s useful life NO<sub>x</sub> standard is 0.07 grams/mile.
- Manufacturer sales must average out to Bin 5 or better.

**Federal Tier 2 120,000 Mile Useful Life Emission Standards** (grams per mile)

Tier 2 Bin	NO <sub>x</sub>	NMOG*	CO
1	0.00	0.000	0.0
2	0.02	0.010	2.1
3	0.03	0.055	2.1
4	0.04	0.070	2.1
5	0.07	0.090	4.2
6	0.10	0.090	4.2
7	0.15	0.090	4.2
8	0.20	0.125	4.2

\* Non-methane organic gases, which are VOC plus ethane (or total hydrocarbons minus methane).

The “engine out” emissions of NO<sub>x</sub>, volatile organic compounds (VOC), and carbon monoxide (CO) from different fuels can vary, but no modern vehicle powered by any type of hydrocarbon fuel (gasoline, diesel, natural gas, etc.) is able to meet these very tight standards without an operable form of exhaust after-treatment, such as a catalytic converter. Excluding vehicles powered solely by electricity or hydrogen, the tailpipe NO<sub>x</sub>, VOC, and CO emissions of modern vehicles depend more on the efficiency of the exhaust after-treatment than on the type of fuel used by the engine. Provided below is a summary obtained from the United States (U.S.) Environmental Protection Agency’s (EPA’s) Green Vehicle Guide data files that provides a breakdown of the 1,070 Federally certified light-duty passenger vehicles for the 2015 model year by fuel type and Tier 2 bin (<http://fueleconomy.gov/feg/download.shtml>).

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Tier 2 Bin	Compressed Natural Gas	Diesel Fuel	Electricity/ Gasoline	Electricity Only	Ethanol/ Gasoline	Gasoline Only	All Fuel Types
Bin 1				15			15
Bin 2	1					24	25
Bin 3			5			72	77
Bin 4	1		1			26	28
Bin 5		39	5		34	847	925
Bin 6							
Bin 7							
Bin 8							
Total	2	39	11	15	34	969	1,070

As shown, roughly 86% of all new vehicles available are in the Bin 5 category and on-road emission inventory estimates are based on this fleet average assumption. In order to obtain additional air quality benefit, it must be demonstrated that any new vehicle purchases/replacements that were going to come from Bin 5 are from Bins 1-4 instead. For 2015 and other recent model years, there are no production vehicles available powered by liquefied natural gas (LNG), liquefied petroleum gas (LPG), methanol, or methanol/gasoline blends.

Benefits are calculated by estimating how much less the Bins 1-4 vehicles emitted during the 2015 fiscal year than if they had been certified to Bin 5. The difference in emission rates by model year between Bins 1-4 versus Bin 5 is multiplied by the reported miles traveled during the 2015 fiscal year for the specific vehicle. Tables on the following pages summarize the number of Tier 2 vehicles by bin number reported by multiple state agencies. Separate tables are provided that summarize both annual and average work day benefits of NO<sub>x</sub>, VOC, and CO for the 2015 fiscal year. An annual total of 250 working days per year was assumed for this analysis. Benefits were not estimated for the following situations:

- vehicles certified to Tier 2 Bins 5, 6, 7, or 8;
- vehicles for which the Tier 2 bin category was not reported in the database; and
- vehicles for which no mileage was either accumulated or reported during the 2015 fiscal year.

An accompanying Excel spreadsheet contains the calculations on separate worksheets for multiple state agencies. Examples of the NO<sub>x</sub>, VOC, and CO calculations for the Bins 3 and 4 vehicles in the TCEQ fleet are also provided.

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**Number of 2004-and-Newer Vehicles by Tier 2 Bin Reported by State Agency for the 2015 Fiscal Year**

Agency Code	Agency Name	Number of 2004-and-Newer Vehicles by Tier 2 Bin									
		1	2	3	4	5	6	7	8	N/A	Total
302	Attorney General	0	0	2	38	4	0	1	2	0	47
303	Texas Facilities Commission	0	0	0	0	0	3	0	0	26	29
304	Comptroller of Public Accounts	0	0	0	0	0	0	0	1	0	1
305	General Land Office	0	0	0	0	2	0	10	0	17	29
401	Texas Military Department	0	0	1	0	0	0	0	0	2	3
405	Department of Public Safety	0	0	4	117	124	0	0	26	10	281
455	Texas Railroad Commission	0	0	0	0	12	0	0	1	5	18
529	Health and Human Services Commission	0	0	0	0	2	0	0	0	13	15
537	Department of State Health Services	0	0	9	10	55	0	0	9	81	164
538	Department of Assistive and Rehabilitative Services	0	0	0	0	1	0	0	0	0	1
539	Department of Aging and Disability	0	0	0	5	6	0	0	0	31	42
551	Department of Agriculture	0	0	6	47	37	2	0	1	116	209
580	Texas Water Development Board	0	0	0	28	20	0	0	0	3	51
582	Texas Commission on Environmental Quality	0	0	25	9	22	1	0	11	0	68
592	Texas State Soil and Water Conservation Board	0	0	0	12	0	0	0	0	14	26
601	Texas Department of Transportation	0	0	3	20	21	0	0	26	198	268
608	Texas Department of Motor Vehicles	0	0	8	2	19	0	0	5	2	36
644	Texas Juvenile Justice Department	0	0	3	0	0	0	0	0	102	105
696	Texas Department of Criminal Justice	0	0	39	36	102	40	11	18	96	342
802	Texas Parks and Wildlife	0	0	0	0	0	0	0	452	253	705
808	Texas Historical Commission	0	0	3	0	17	0	0	37	1	58
	Grand Total	0	0	103	324	444	46	22	589	970	2,498

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**2015 Fiscal Year Annual Benefits Summary (pounds per pollutant)**

Agency Code	Agency Name	Bins 3 and 4 Vehicles		Annual Benefits (pounds)		
		Number	Annual Miles	NO <sub>x</sub>	VOC	C O
302	Attorney General	40	606,219	42.77	22.15	1,298.43
303	Texas Facilities Commission	0	0	0.00	0.00	0.00
304	Comptroller of Public Accounts	0	0	0.00	0.00	0.00
305	General Land Office	0	0	0.00	0.00	0.00
401	Texas Military Department	1	17,432	1.77	1.14	42.72
405	Department of Public Safety	121	1,454,827	89.03	47.78	2,546.18
455	Texas Railroad Commission	0	0	0.00	0.00	0.00
529	Health and Human Services Commission	0	0	0.00	0.00	0.00
537	Department of State Health Services	19	215,133	26.18	14.24	663.28
538	Department of Assistive and Rehabilitative Services	0	0	0.00	0.00	0.00
539	Department of Aging and Disability	5	49,424	3.57	1.80	112.40
551	Department of Agriculture	53	984,465	54.07	30.42	1,404.40
580	Texas Water Development Board	28	308,302	29.52	14.54	876.78
582	Texas Commission on Environmental Quality	34	370,177	37.66	22.69	936.99
592	Texas State Soil and Water Conservation Board	12	181,081	14.70	7.27	462.64
601	Texas Department of Transportation	23	261,357	15.26	9.46	383.26
608	Texas Department of Motor Vehicles	10	134,269	19.78	11.99	446.82
644	Texas Juvenile Justice Department	3	53,796	5.47	3.52	131.83
696	Texas Department of Criminal Justice	75	705,625	72.05	42.13	1,901.12
802	Texas Parks and Wildlife	0	0	0.00	0.00	0.00
808	Texas Historical Commission	3	39,347	3.27	2.25	72.21
Grand Total		427	5,381,454	415.10	231.37	11,279.08

-UNAUDITED-

**2015 Fiscal Year Average Workday Benefits Summary**  
**(pounds per pollutant based on 250 work days per year)**

Agency Code	Agency Name	Average Workday Benefits (pounds)		
		NO <sub>x</sub>	VOC	CO
302	Attorney General	0.17	0.09	5.19
303	Texas Facilities Commission	0.00	0.00	0.00
304	Comptroller of Public Accounts	0.00	0.00	0.00
305	General Land Office	0.00	0.00	0.00
401	Texas Military Department	0.01	0.00	0.17
405	Department of Public Safety	0.36	0.19	10.18
455	Texas Railroad Commission	0.00	0.00	0.00
529	Health and Human Services Commission	0.00	0.00	0.00
537	Department of State Health Services	0.10	0.06	2.65
538	Department of Assistive and Rehabilitative Services	0.00	0.00	0.00
539	Department of Aging and Disability	0.01	0.01	0.45
551	Department of Agriculture	0.22	0.12	5.62
580	Texas Water Development Board	0.12	0.06	3.51
582	Texas Commission on Environmental Quality	0.15	0.09	3.75
592	Texas State Soil and Water Conservation Board	0.06	0.03	1.85
601	Texas Department of Transportation	0.06	0.04	1.53
608	Texas Department of Motor Vehicles	0.08	0.05	1.79
644	Texas Juvenile Justice Department	0.02	0.01	0.53
696	Texas Department of Criminal Justice	0.29	0.17	7.60
802	Texas Parks and Wildlife	0.00	0.00	0.00
808	Texas Historical Commission	0.01	0.01	0.29
	Grand Total	1.66	0.93	45.12

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**Sample NO<sub>x</sub> Benefit Calculations for the 2015 Fiscal Year from TCEQ Bins 3 and 4 Vehicles**

Model Year	Vehicle Make	Vehicle Model	Tier 2 Bin	FY 2015 Mileage	Bin 5 NO <sub>x</sub> Rate (gpm)	Vehicle NO <sub>x</sub> Rate (gpm)	NO <sub>x</sub> Difference (gpm)	NO <sub>x</sub> Benefit (grams)
2008	FORD	ESCAPE HYBRID	3	15,971	0.1007	0.0431	0.0575	919
2009	FORD	ESCAPE HYBRID	3	9,839	0.1001	0.0429	0.0572	563
2009	FORD	ESCAPE HYBRID	3	4,272	0.1001	0.0429	0.0572	244
2009	FORD	ESCAPE HYBRID	3	3,347	0.1001	0.0429	0.0572	191
2009	FORD	ESCAPE HYBRID	3	15,305	0.1001	0.0429	0.0572	875
2009	FORD	ESCAPE HYBRID	3	8,526	0.1001	0.0429	0.0572	487
2009	FORD	ESCAPE HYBRID	3	8,910	0.1001	0.0429	0.0572	509
2009	FORD	ESCAPE HYBRID	3	12,040	0.1001	0.0429	0.0572	688
2009	FORD	ESCAPE HYBRID	3	10,576	0.1001	0.0429	0.0572	605
2009	FORD	ESCAPE HYBRID	3	3,355	0.1001	0.0429	0.0572	192
2009	FORD	ESCAPE HYBRID	3	5,992	0.1001	0.0429	0.0572	343
2009	FORD	ESCAPE HYBRID	3	10,272	0.1001	0.0429	0.0572	587
2009	FORD	ESCAPE HYBRID	3	11,562	0.1001	0.0429	0.0572	661
2009	FORD	ESCAPE HYBRID	3	11,559	0.1001	0.0429	0.0572	661
2009	FORD	ESCAPE HYBRID	3	12,999	0.1001	0.0429	0.0572	743
2009	FORD	ESCAPE HYBRID	3	4,010	0.1001	0.0429	0.0572	229
2009	TOYO	PRIUS	3	4,261	0.1001	0.0429	0.0572	244
2009	TOYO	PRIUS	3	4,129	0.1001	0.0429	0.0572	236
2009	TOYO	PRIUS	3	4,563	0.1001	0.0429	0.0572	261
2010	FORD	FOCUS	3	9,888	0.0811	0.0347	0.0463	458
2010	FORD	FOCUS	3	9,811	0.0811	0.0347	0.0463	455
2011	FORD	FOCUS	3	14,808	0.0807	0.0346	0.0461	682
2012	FORD	FOCUS	3	5,365	0.0521	0.0223	0.0298	160
2014	FORD	FUSION HYBRID	3	26,594	0.0547	0.0234	0.0313	831
2014	FORD	FUSION HYBRID	3	28,912	0.0547	0.0234	0.0313	904
2006	FORD	ESCAPE HYBRID	4	11,238	0.1294	0.0740	0.0555	623
2006	FORD	ESCAPE HYBRID	4	4,605	0.1294	0.0740	0.0555	255
2006	FORD	ESCAPE HYBRID	4	4,629	0.1294	0.0740	0.0555	257
2010	CHEV	IMPALA	4	24,232	0.0811	0.0463	0.0347	842
2010	CHEV	IMPALA	4	13,972	0.0811	0.0463	0.0347	486
2011	CHEV	IMPALA	4	7,603	0.0807	0.0461	0.0346	263
2011	CHEV	IMPALA	4	20,598	0.0807	0.0461	0.0346	712
2011	CHEV	IMPALA	4	23,680	0.0807	0.0461	0.0346	819
2011	CHEV	IMPALA	4	2,754	0.0807	0.0461	0.0346	95

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**Sample VOC Benefit Calculations for the 2015 Fiscal Year from TCEO Bins 3 and 4 Vehicles**

Model Year	Vehicle Make	Vehicle Model	Tier 2 Bin	FY 2015 Mileage	Bin 5 VOC Rate (gpm)	Vehicle VOC Rate (gpm)	VOC Difference (gpm)	VOC Benefit (grams)
2008	FORD	ESCAPE HYBRID	3	15,971	0.0935	0.0571	0.0364	581
2009	FORD	ESCAPE HYBRID	3	9,839	0.0916	0.0560	0.0356	350
2009	FORD	ESCAPE HYBRID	3	4,272	0.0916	0.0560	0.0356	152
2009	FORD	ESCAPE HYBRID	3	3,347	0.0916	0.0560	0.0356	119
2009	FORD	ESCAPE HYBRID	3	15,305	0.0916	0.0560	0.0356	545
2009	FORD	ESCAPE HYBRID	3	8,526	0.0916	0.0560	0.0356	304
2009	FORD	ESCAPE HYBRID	3	8,910	0.0916	0.0560	0.0356	317
2009	FORD	ESCAPE HYBRID	3	12,040	0.0916	0.0560	0.0356	429
2009	FORD	ESCAPE HYBRID	3	10,576	0.0916	0.0560	0.0356	377
2009	FORD	ESCAPE HYBRID	3	3,355	0.0916	0.0560	0.0356	119
2009	FORD	ESCAPE HYBRID	3	5,992	0.0916	0.0560	0.0356	213
2009	FORD	ESCAPE HYBRID	3	10,272	0.0916	0.0560	0.0356	366
2009	FORD	ESCAPE HYBRID	3	11,562	0.0916	0.0560	0.0356	412
2009	FORD	ESCAPE HYBRID	3	11,559	0.0916	0.0560	0.0356	412
2009	FORD	ESCAPE HYBRID	3	12,999	0.0916	0.0560	0.0356	463
2009	FORD	ESCAPE HYBRID	3	4,010	0.0916	0.0560	0.0356	143
2009	TOYO	PRIUS	3	4,261	0.0916	0.0560	0.0356	152
2009	TOYO	PRIUS	3	4,129	0.0916	0.0560	0.0356	147
2009	TOYO	PRIUS	3	4,563	0.0916	0.0560	0.0356	162
2010	FORD	FOCUS	3	9,888	0.0777	0.0475	0.0302	299
2010	FORD	FOCUS	3	9,811	0.0777	0.0475	0.0302	296
2011	FORD	FOCUS	3	14,808	0.0763	0.0466	0.0297	439
2012	FORD	FOCUS	3	5,365	0.0591	0.0361	0.0230	123
2014	FORD	FUSION HYBRID	3	26,594	0.0583	0.0356	0.0227	603
2014	FORD	FUSION HYBRID	3	28,912	0.0583	0.0356	0.0227	656
2006	FORD	ESCAPE HYBRID	4	11,238	0.1163	0.0905	0.0258	290
2006	FORD	ESCAPE HYBRID	4	4,605	0.1163	0.0905	0.0258	119
2006	FORD	ESCAPE HYBRID	4	4,629	0.1163	0.0905	0.0258	120
2010	CHEV	IMPALA	4	24,232	0.0777	0.0604	0.0173	418
2010	CHEV	IMPALA	4	13,972	0.0777	0.0604	0.0173	241
2011	CHEV	IMPALA	4	7,603	0.0763	0.0593	0.0170	129
2011	CHEV	IMPALA	4	20,598	0.0763	0.0593	0.0170	349
2011	CHEV	IMPALA	4	23,680	0.0763	0.0593	0.0170	401
2011	CHEV	IMPALA	4	2,754	0.0763	0.0593	0.0170	47

-UNAUDITED-

**Sample CO Benefit Calculations for the 2015 Fiscal Year from TCEQ Bins 3 and 4 Vehicles**

Model Year	Vehicle Make	Vehicle Model	Tier 2 Bin	FY 2015 Mileage	Bin 5 CO Rate (gpm)	Vehicle CO Rate (gpm)	CO Difference (gpm)	CO Benefit (grams)
2008	FORD	ESCAPE HYBRID	3	15,971	2.6769	1.3384	1.3384	21,376
2009	FORD	ESCAPE HYBRID	3	9,839	2.6604	1.3302	1.3302	13,088
2009	FORD	ESCAPE HYBRID	3	4,272	2.6604	1.3302	1.3302	5,683
2009	FORD	ESCAPE HYBRID	3	3,347	2.6604	1.3302	1.3302	4,452
2009	FORD	ESCAPE HYBRID	3	15,305	2.6604	1.3302	1.3302	20,359
2009	FORD	ESCAPE HYBRID	3	8,526	2.6604	1.3302	1.3302	11,341
2009	FORD	ESCAPE HYBRID	3	8,910	2.6604	1.3302	1.3302	11,852
2009	FORD	ESCAPE HYBRID	3	12,040	2.6604	1.3302	1.3302	16,016
2009	FORD	ESCAPE HYBRID	3	10,576	2.6604	1.3302	1.3302	14,068
2009	FORD	ESCAPE HYBRID	3	3,355	2.6604	1.3302	1.3302	4,463
2009	FORD	ESCAPE HYBRID	3	5,992	2.6604	1.3302	1.3302	7,971
2009	FORD	ESCAPE HYBRID	3	10,272	2.6604	1.3302	1.3302	13,664
2009	FORD	ESCAPE HYBRID	3	11,562	2.6604	1.3302	1.3302	15,380
2009	FORD	ESCAPE HYBRID	3	11,559	2.6604	1.3302	1.3302	15,376
2009	FORD	ESCAPE HYBRID	3	12,999	2.6604	1.3302	1.3302	17,291
2009	FORD	ESCAPE HYBRID	3	4,010	2.6604	1.3302	1.3302	5,334
2009	TOYO	PRIUS	3	4,261	2.6604	1.3302	1.3302	5,668
2009	TOYO	PRIUS	3	4,129	2.6604	1.3302	1.3302	5,492
2009	TOYO	PRIUS	3	4,563	2.6604	1.3302	1.3302	6,070
2010	FORD	FOCUS	3	9,888	2.2355	1.1178	1.1178	11,052
2010	FORD	FOCUS	3	9,811	2.2355	1.1178	1.1178	10,966
2011	FORD	FOCUS	3	14,808	2.2230	1.1115	1.1115	16,459
2012	FORD	FOCUS	3	5,365	1.1751	0.5875	0.5875	3,152
2014	FORD	FUSION HYBRID	3	26,594	1.2366	0.6183	0.6183	16,443
2014	FORD	FUSION HYBRID	3	28,912	1.2366	0.6183	0.6183	17,876
2006	FORD	ESCAPE HYBRID	4	11,238	2.9981	1.4990	1.4990	16,846
2006	FORD	ESCAPE HYBRID	4	4,605	2.9981	1.4990	1.4990	6,903
2006	FORD	ESCAPE HYBRID	4	4,629	2.9981	1.4990	1.4990	6,939
2010	CHEV	IMPALA	4	24,232	2.2355	1.1178	1.1178	27,085
2010	CHEV	IMPALA	4	13,972	2.2355	1.1178	1.1178	15,617
2011	CHEV	IMPALA	4	7,603	2.2230	1.1115	1.1115	8,451
2011	CHEV	IMPALA	4	20,598	2.2230	1.1115	1.1115	22,895
2011	CHEV	IMPALA	4	23,680	2.2230	1.1115	1.1115	26,321
2011	CHEV	IMPALA	4	2,754	2.2230	1.1115	1.1115	3,061