Wisconsin Vehicle Inspection Program Annual Report 2014

WIVIP
WISCONSIN VEHICLE
INSPECTION PROGRAM

CONTENTS

Background 5
Program Overview 5
Quality Control/Quality Assurance 6
Network 6
Program Rationale 6
Motor Vehicle Emission Reductions & Air Quality Improvement 6
Hot Summer Weekday Emissions (tons) For On-Road Motor Vehicles 7
TEST DATA REPORT 11
OPERATING STATISTICS 11
All Tests 11
Initial Tests 12
Retest Results 15
Subsequent Retests 18
Vehicle Waivers 21
No Final Outcome 25
Vehicles Passing or Failing OBD Test 27
Comparison of On-Board Diagnostic tests with Other Test Types 30
Check Engine Light Commanded On 31
USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2)(xxi) 33
Readiness Monitors: 35
Initial Test Volume By Model Year and Station 36
Initial Test Failure Rate By Model Year and Test Station 36
Change in Tailpipe Emission Levels After Repairs 36
QUALITY ASSURANCE REPORT 37
Testing Network 37
Private Inspection Facilities Operating On December 31, 2014 37
Private Inspection Facilities Deactivated In 2014 45
Technical Assistance Centers 46
Overt and Covert Performance Audits Needs updates 47
Covert Audits 47
Fines, Suspension or Termination Due to Audit Failures 47
Number of inspectors licensed or certified to conduct testing 48
Number of hearings 48

Fines 48
Covert Audits 48
QUALITY CONTROL REPORT 49
Number of Emission Testing Sites and Lanes 49
Number of Equipment audits by station and lane 49
ENFORCEMENT REPORT 50
Registration denial based enforcement programs 51
Computer-matching based enforcement programs 51
Sticker- based enforcement programs 51
ADDITIONAL REPORTING REQUIREMENTS 52
Introduction 52
Wisconsin Statute Changes 53
Administrative Rule Changes 53
Waiver repair cost limit raised 53
Systech International, LLC changed to Opus Inspection, Inc. 53
Program Issues Identified and Corrected 54

BACKGROUND

The Wisconsin Department of Transportation (WisDOT) implemented the Wisconsin Vehicle Inspection Program (WVIP) in April 1984 in response to the federal Clean Air Act requirements. A major focus of the Clean Air Act is to reduce emissions that form ground-level ozone. Motor vehicles, industries, and smaller area sources such as lawn mowers, power boats, paints, solvents and other consumer products emit these ozone precursors. Areas exceeding federal air quality standards – established under the Clean Air Act – are designated as non-attainment and are required by federal law to reduce emissions.

The WVIP is one of the primary components of the strategy to reduce air pollution in southeastern Wisconsin area. Each year, over 600,000 cars and light duty trucks in a seven county region of southeastern Wisconsin's ozone non-attainment area are tested for emissions. The program covers more than 2,500 square miles over seven counties: Kenosha, Milwaukee, Ozaukee, Racine, Sheboygan, Washington, and Waukesha. Vehicles receive inspections in a decentralized network of approximately 200 private inspection facilities (PIF) located in all seven of the program counties. Vehicle population determines PIF distribution. At the end of calendar year 2014 the PIF per county totals were:

- Kenosha = 14
- Milwaukee = 80
- Racine = 17
- Sheboygan = 11
- Waukesha = 52
- Ozaukee = 10
- Washington = 15

The emissions tests are free to the motorist. The state of Wisconsin pays the program contactor, Opus Inspection, a monthly fee of $216,330.00. The state Transportation and Petroleum Environmental Cleanup Fund Act (PECFA) funds pay for the program.

PROGRAM OVERVIEW

Geographical Area:	Seven southeastern Wisconsin counties: Sheboygan, Washington, Ozaukee, Waukesha, Milwaukee, Racine and Kenosha. Testing region covers 2,500 square miles.
Test Procedure:	OBDII testing, in which a vehicle's on-board computer is checked for emissions-related problems, is the standard test for all 1996 and newer gasoline-fueled vehicles equipped with OBDII technology and all 2007 and newer diesel-fueled vehicles equipped with OBDII technology.
Network Size:	200 Private Inspection Facilities, 200 inspection lanes, 5 Technical Assistance Centers
Model Years (MY) Tested	*Registration Renewal Testing*: Model Years 1996 through 2011 • Model year 1996-2006 gasoline-fueled vehicles up to 8,500 lbs. gross vehicle weight rating

- Model year 2007 and newer gasoline-fueled and diesel-fueled vehicles between 8,501 and 14,000 lbs., gross vehicle weight rating

Change *of Ownership*: Model year 2009 and older in CY 2014

Quality Control/Quality Assurance

The WIVIP has several interrelated systems and functions monitoring program performance and accuracy. These systems include digital monitoring of all inspections, trigger reports alerting program management to any testing anomaly, videos of each inspection process, regular overt station checking on equipment performance and covert inspection audits.

The digital monitoring/trigger report capabilities enable constant program monitoring of inspection accuracy. Program management uses this tool to identify and remedy any potential issue. The regular station audits verify the accuracy of program functions at each PIF, the inspector's and inspection analyzer.

Network

The WIVIP is a decentralized test and repair network comprised of 200 Private Inspection Facilities located throughout the seven county program region. The stations receive all analyzer equipment, service, consumables and inspector training, free of charge from Opus Inspection, the program management company. The list of PIFs participating in the network in 2014, and their locations, are attached in Table III.

Program Rationale

Southeastern Wisconsin is one of more than 40 metropolitan areas in the United States with ground-level ozone levels that exceed federal air quality standards. Excessive air pollution is a public health hazard. Geographically, as part of the south Lake Michigan air basin, southeastern Wisconsin is one of the worst areas in the country for ozone pollution.

Motor Vehicle Emission Reductions & Air Quality Improvement

Reducing motor vehicle emissions plays a large role in improving regional air quality. Along with reformulated gasoline use, the Wisconsin Vehicle Inspection Program (WVIP) is Wisconsin's most significant vehicle emission reduction program, and one that contributes to improved air quality in the entire upper Midwest.

The Wisconsin Department of Natural Resources (DNR) estimates that the program achieved the following reductions in on-road motor vehicle emissions during 2014:

- Volatile organic compounds (VOC) emissions reduced by 2.24 tons per summer weekday, or 7.1%.
- Oxides of nitrogen (NOx) emissions reduced by 3.52 tons per summer weekday, or 5.7%.
- Carbon monoxide (CO) emissions reduced by 39.29 tons per summer weekday, or 10.0%.

Hot Summer Weekday Emissions (tons) For On-Road Motor Vehicles

		Volatile Organic Compounds (VOC)					
		2005	2008	2011	2012	2013	2014
No WVIP	6 SE Counties	54.01	47.28	43.32	36.79	32.53	29.62
No WVIP	Sheboygan Co.	3.66	3.14	2.79	2.50	2.25	2.05
No WVIP	**All 7 Counties**	**57.67**	**50.42**	**46.10**	**39.28**	**34.78**	**31.67**
WVIP	6 SE Counties	47.22	41.17	40.68	34.39	30.31	27.53
WVIP	Sheboygan Co.	3.27	2.77	2.61	2.33	2.09	1.90
WVIP	**All 7 Counties**	**50.49**	**43.93**	**43.29**	**36.72**	**32.40**	**29.44**
WVIP Reductions (tons)		**7.19**	**6.49**	**2.81**	**2.56**	**2.38**	**2.24**
WVIP Reductions (%)		**12.5%**	**12.9%**	**6.1%**	**6.5%**	**6.8%**	**7.1%**

		Oxides of Nitrogen (NOx)					
		2005	2008	2011	2012	2013	2014
No WVIP	6 SE Counties	118.80	98.86	85.06	72.40	64.02	58.00
No WVIP	Sheboygan Co.	8.35	6.76	5.75	5.19	4.69	4.27
No WVIP	**All 7 Counties**	**127.15**	**105.62**	**90.81**	**77.58**	**68.71**	**62.28**
WVIP	6 SE Counties	110.44	91.30	80.64	68.44	60.43	54.71
WVIP	Sheboygan Co.	7.83	6.29	5.46	4.91	4.44	4.04
WVIP	**All 7 Counties**	**118.28**	**97.59**	**86.10**	**73.35**	**64.87**	**58.75**
WVIP Reductions (tons)		**8.87**	**8.03**	**4.71**	**4.23**	**3.85**	**3.52**
WVIP Reductions (%)		**7.0%**	**7.6%**	**5.2%**	**5.5%**	**5.6%**	**5.7%**

		Carbon Monoxide (CO)					
		2005	2008	2011	2012	2013	2014
No WVIP	6 SE Counties	597.13	533.05	491.91	433.19	391.82	369.69
No WVIP	Sheboygan Co.	39.74	33.93	29.49	27.47	24.63	23.31
No WVIP	**All 7 Counties**	**636.86**	**566.98**	**521.40**	**460.66**	**416.45**	**392.99**
WVIP	6 SE Counties	520.07	462.20	450.43	393.74	354.11	332.80
WVIP	Sheboygan Co.	35.24	29.76	26.89	24.86	22.17	20.90
WVIP	**All 7 Counties**	**555.31**	**491.97**	**477.32**	**418.60**	**376.28**	**353.70**
WVIP Reductions (tons)		**81.55**	**75.02**	**44.08**	**42.06**	**40.17**	**39.29**
WVIP Reductions (%)		**12.8%**	**13.2%**	**8.5%**	**9.1%**	**9.6%**	**10.0%**

NOTES:

1. The "6 SE Counties" are Kenosha, Milwaukee, Ozaukee, Racine, Washington and Waukesha Counties.

2. Emissions calculated using U.S. EPA's MOVES2014 model.

3. Emissions calculated for the year 2014 are preliminary, since local 2014 vehicle-miles of travel data are not yet available. (Instead the 2014 vehicle-miles of travel was estimated by applying a national growth rate to the 2013 vehicle-miles of travel.)

4. Emissions calculated for all years differ from the values in last year's report, since this year's modeling used an updated version of the U.S. EPA's emissions model (MOVES2014 instead of MOVES2010b).

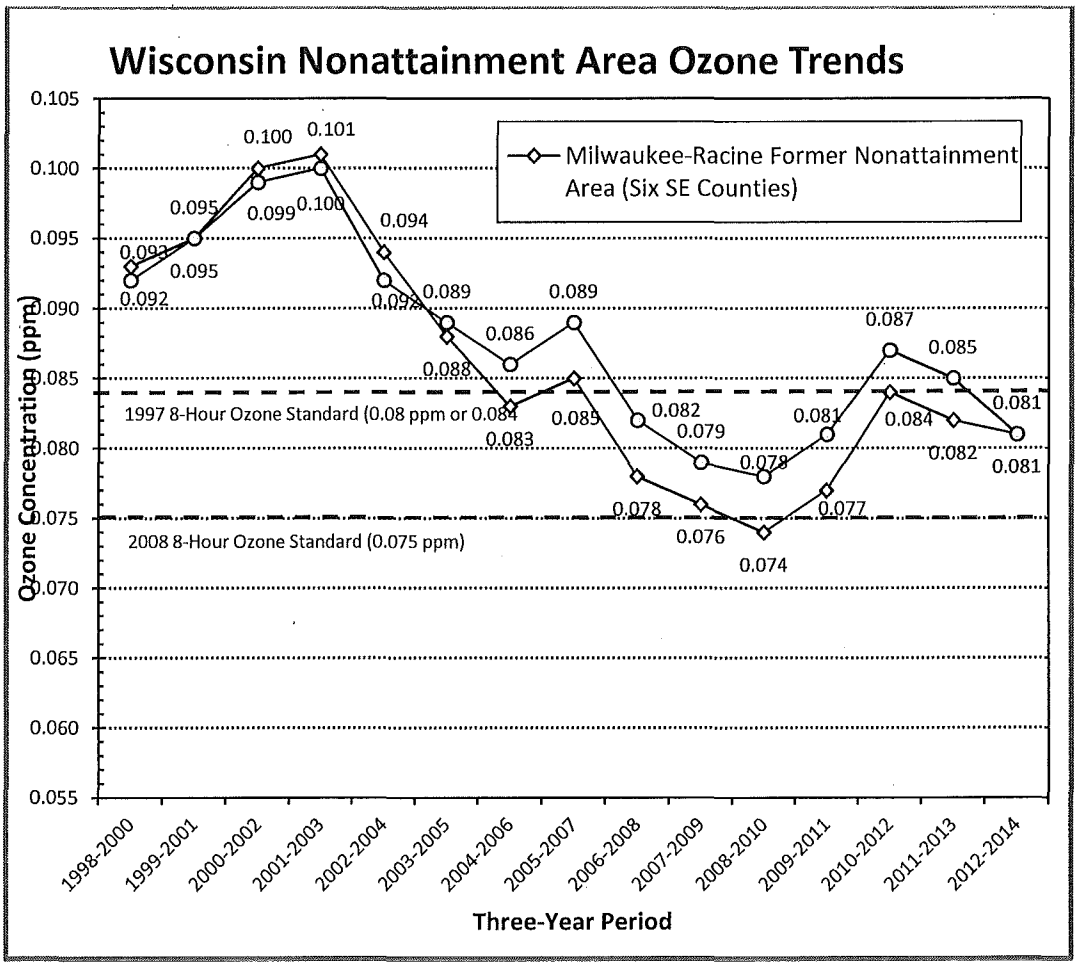
5. On July of 2008, the WVIP dropped tailpipe testing entirely and only tested vehicles of model years 1996 and newer by scanning their on-board diagnostic (OBD) systems. This exempted all vehicles of model years 1995 and older, resulting in a decrease in the program's emission reduction percentages after 2008.

Over time, the WVIP has contributed to the following air quality advances in Wisconsin:

Ozone: Ground-level ozone concentrations in southeastern Wisconsin have dropped significantly over the past 25 years. During 1990, the 1-hour ozone "design value" (a calculated measurement used to evaluate compliance with the 1-hour ozone standard) for southeastern Wisconsin was 0.19 parts per million (ppm). This value was high enough that six southeastern Wisconsin counties were classified as a severe ozone nonattainment area under the 1990 Clean Air Act (CAA) amendments. Other eastern Wisconsin counties were assigned less severe nonattainment designations.

By 2001, the 1-hour design value for southeastern Wisconsin had dropped to 0.12 ppm, meeting the 1-hour ozone standard. All Wisconsin counties are now monitoring ozone concentrations below this level.

More recently, the U.S. EPA has been implementing more stringent ozone standards based on continually updated scientific evidence on ozone's effect on public health and welfare, using an 8-hour averaging period. This "8-hour ozone standard" was originally set at 0.084 ppm in 1997. It was revised in 2008 to 0.075 ppm. In November 2014, the U.S. EPA proposed to again lower the standard to a range between 0.065 to 0.070 ppm. The agency will finalize the standard by October 1, 2015. As shown in the following graph, ozone concentrations have continued to decline since 2000.



Since meteorology (especially temperature) has a strong influence on ozone concentrations, the values are elevated for the three-year periods including hot summers. In particular, the years 2002, 2006, 2011 and 2012 had very hot summers.

As a result of the declining ozone concentrations, the areas of Wisconsin still in nonattainment for ozone are now limited to Sheboygan County and part of Kenosha County. The WVIP will play an important, ongoing role in the state's efforts to attain the more stringent 8-hour ozone standard in those areas and to maintain attainment throughout all of eastern Wisconsin.

Carbon Monoxide: Between 1977 and 1984, southeastern Wisconsin exceeded the federal carbon monoxide standard 35 times. Since the program's implementation in 1984, southeastern Wisconsin has not exceeded this standard even once.

Credit for these air quality improvements goes to various state and federal ozone control measures implemented both in Wisconsin and other states. Aside from Wisconsin's and neighboring states' vehicle inspection and maintenance programs, these include reformulated gasoline, national emission standards for new motor vehicles, utility and industrial source controls, and gasoline vapor recovery controls.

TEST DATA REPORT
OPERATING STATISTICS

ALL TESTS

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(1) The number of vehicles tested by model year and vehicle type.

The tests represented in the table below include test records for initial tests, retests and waivers. It contains all test results, including pass, fail, waivers, aborts, and rejects. All tables in this section do not include test records that were performed in the course of the state audits.

MODEL YEAR	PASSENGER	SUV	TRUCK	VAN	GRAND TOTAL
1996	5,091	962	1,051	448	7,552
1997	21,819	3,281	4,972	1,794	31,866
1998	7,728	1,399	1,530	724	11,381
1999	35,862	6,423	6,447	3,362	52,094
2000	11,914	2,168	1,766	1,396	17,244
2001	46,574	7,165	8,589	4,226	66,554
2002	14,135	3,109	1,726	1,373	20,343
2003	54,641	11,844	8,707	5,396	80,588
2004	12,297	3,470	1,698	1,050	18,515
2005	59,921	13,099	8,175	7,384	88,579
2006	12,141	2,767	1,354	1,340	17,602
2007	62,410	13,720	8,046	4,813	88,989
2008	11,056	3,160	1,694	1,154	17,064
2009	43,227	10,288	4,578	2,601	60,694
2010	3,193	730	404	282	4,609
2011	32,485	20,454	6,624	4,580	64,143
2012	1,608	908	294	230	3,040
2013	333	150	51	83	617
2014	119	42	11	9	181
2015	35	6		1	42
GRAND TOTAL	436,589	105,145	67,717	42,246	651,697

Initial Tests

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2)(i) The number of vehicles tested by model year and vehicle type failing by test type.

Vehicle Model Year	Initial Fail	Initial Pass	Grand Total	Failure Rate
1996	**940**	**5,539**	**6,479**	**14.5%**
Passenger	562	3,723	4,285	13.1%
SUV	182	724	906	20.1%
Truck	124	755	879	14.1%
Van	72	337	409	17.6%
1997	**3,266**	**25,411**	**28,677**	**11.4%**
Passenger	2,206	17,406	19,612	11.2%
SUV	410	2,733	3,143	13.0%
Truck	430	3,923	4,353	9.9%
Van	220	1,349	1,569	14.0%
1998	**1,366**	**8,365**	**9,731**	**14.0%**
Passenger	878	5,592	6,470	13.6%
SUV	193	1,151	1,344	14.4%
Truck	167	1,114	1,281	13.0%
Van	128	508	636	20.1%
1999	**4,576**	**42,611**	**47,187**	**9.7%**
Passenger	3,128	29,295	32,423	9.6%
SUV	678	5,512	6,190	11.0%
Truck	418	5,135	5,553	7.5%
Van	352	2,669	3,021	11.7%
2000	**1,657**	**13,379**	**15,036**	**11.0%**
Passenger	1,174	9,089	10,263	11.4%
SUV	216	1,866	2,082	10.4%
Truck	118	1,326	1,444	8.2%
Van	149	1,098	1,247	11.9%
2001	**6,259**	**53,501**	**59,760**	**10.5%**
Passenger	4,487	37,233	41,720	10.8%
SUV	677	6,205	6,882	9.8%
Truck	487	6,921	7,408	6.6%
Van	608	3,142	3,750	16.2%
2002	**1,808**	**15,671**	**17,479**	**10.3%**
Passenger	1,240	10,533	11,773	10.5%
SUV	303	2,711	3,014	10.1%

Vehicle Model Year	Initial Fail	Initial Pass	Grand Total	Failure Rate
Truck	91	1,396	1,487	6.1%
Van	174	1,031	1,205	14.4%
2003	**4,902**	**69,922**	**74,824**	**6.6%**
Passenger	3,394	47,476	50,870	6.7%
SUV	710	10,832	11,542	6.2%
Truck	425	7,069	7,494	5.7%
Van	373	4,545	4,918	7.6%
2004	**1,070**	**15,875**	**16,945**	**6.3%**
Passenger	704	10,440	11,144	6.3%
SUV	219	3,172	3,391	6.5%
Truck	76	1,371	1,447	5.3%
Van	71	892	963	7.4%
2005	**3,681**	**80,465**	**84,146**	**4.4%**
Passenger	2,565	54,439	57,004	4.5%
SUV	581	12,302	12,883	4.5%
Truck	261	7,125	7,386	3.5%
Van	274	6,599	6,873	4.0%
2006	**720**	**15,709**	**16,429**	**4.4%**
Passenger	500	10,846	11,346	4.4%
SUV	115	2,596	2,711	4.2%
Truck	57	1,099	1,156	4.9%
Van	48	1,168	1,216	3.9%
2007	**2,423**	**84,249**	**86,672**	**2.8%**
Passenger	1,683	58,764	60,447	2.8%
SUV	302	13,331	13,633	2.2%
Truck	250	7,593	7,843	3.2%
Van	188	4,561	4,749	4.0%
2008	**385**	**16,178**	**16,563**	**2.3%**
Passenger	246	10,397	10,643	2.3%
SUV	49	3,096	3,145	1.6%
Truck	50	1,587	1,637	3.1%
Van	40	1,098	1,138	3.5%
2009	**829**	**58,980**	**59,809**	**1.4%**
Passenger	571	41,896	42,467	1.3%
SUV	137	10,121	10,258	1.3%
Truck	72	4,423	4,495	1.6%
Van	49	2,540	2,589	1.9%
2010	**71**	**4,437**	**4,508**	**1.6%**
Passenger	52	3,059	3,111	1.7%

Vehicle Model Year	Initial Fail	Initial Pass	Grand Total	Failure Rate
SUV	4	725	729	0.5%
Truck	9	380	389	2.3%
Van	6	273	279	2.2%
2011	**362**	**63,403**	**63,765**	**0.6%**
Passenger	204	32,002	32,206	0.6%
SUV	70	20,355	20,425	0.3%
Truck	45	6,523	6,568	0.7%
Van	43	4,523	4,566	0.9%
2012	**11**	**3,009**	**3,020**	**0.4%**
Passenger	8	1,585	1,593	0.5%
SUV		907	907	0.0%
Truck	2	289	291	0.7%
Van	1	228	229	0.4%
2013	**7**	**602**	**609**	**1.1%**
Passenger	6	320	326	1.8%
SUV	1	149	150	0.7%
Truck		50	50	0.0%
Van		83	83	0.0%
2014	**2**	**176**	**178**	**1.1%**
Passenger	1	115	116	0.9%
SUV	1	41	42	2.4%
Truck		11	11	0.0%
Van		9	9	0.0%
2015		**42**	**42**	**0.0%**
Passenger		35	35	0.0%
SUV		6	6	0.0%
Van		1	1	0.0%
Grand Total	34,335	577,524	611,859	5.6%

RETEST RESULTS

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2) (ii) – (iii) The number of vehicles tested by model year and vehicle type passing or failing the first retest.

MODEL YEAR & TYPE	1ST RETEST FAIL	1ST RETEST PASS	GRAND TOTAL	1ST RETEST FAIL RATE	1ST RETEST PASS RATE
1996	182	543	725	25.1%	74.9%
PASSENGER	150	450	600	25.0%	75.0%
SUV	12	20	32	37.5%	62.5%
TRUCK	17	68	85	20.0%	80.0%
VAN	3	5	8	37.5%	62.5%
1997	535	1,776	2,311	23.2%	76.8%
PASSENGER	425	1,403	1,828	23.2%	76.8%
SUV	27	55	82	32.9%	67.1%
TRUCK	67	272	339	19.8%	80.2%
VAN	16	46	62	25.8%	74.2%
1998	317	843	1,160	27.3%	72.7%
PASSENGER	255	695	950	26.8%	73.2%
SUV	17	20	37	45.9%	54.1%
TRUCK	36	105	141	25.5%	74.5%
VAN	9	23	32	28.1%	71.9%
1999	679	2,712	3,391	20.0%	80.0%
PASSENGER	566	2,274	2,840	19.9%	80.1%
SUV	37	110	147	25.2%	74.8%
TRUCK	54	282	336	16.1%	83.9%
VAN	22	46	68	32.4%	67.6%
2000	345	1,136	1,481	23.3%	76.7%
PASSENGER	295	992	1,287	22.9%	77.1%
SUV	11	36	47	23.4%	76.6%
TRUCK	25	88	113	22.1%	77.9%
VAN	14	20	34	41.2%	58.8%
2001	902	3,865	4,767	18.9%	81.1%
PASSENGER	782	3,322	4,104	19.1%	80.9%
SUV	33	124	157	21.0%	79.0%
TRUCK	50	352	402	12.4%	87.6%
VAN	37	67	104	35.6%	64.4%
2002	366	1,320	1,686	21.7%	78.3%
PASSENGER	324	1,166	1,490	21.7%	78.3%
SUV	15	51	66	22.7%	77.3%
TRUCK	18	67	85	21.2%	78.8%

MODEL YEAR & TYPE		1ST RETEST FAIL	1ST RETEST PASS	GRAND TOTAL	1ST RETEST FAIL RATE	1ST RETEST PASS RATE
	VAN	9	36	45	20.0%	80.0%
2003		549	3,314	3,863	14.2%	85.8%
	PASSENGER	473	2,805	3,278	14.4%	85.6%
	SUV	22	131	153	14.4%	85.6%
	TRUCK	37	323	360	10.3%	89.7%
	VAN	17	55	72	23.6%	76.4%
2004		185	869	1,054	17.6%	82.4%
	PASSENGER	157	734	891	17.6%	82.4%
	SUV	13	44	57	22.8%	77.2%
	TRUCK	13	81	94	13.8%	86.2%
	VAN	2	10	12	16.7%	83.3%
2005		336	2,629	2,965	11.3%	88.7%
	PASSENGER	296	2,255	2,551	11.6%	88.4%
	SUV	12	116	128	9.4%	90.6%
	TRUCK	20	206	226	8.8%	91.2%
	VAN	8	52	60	13.3%	86.7%
2006		106	628	734	14.4%	85.6%
	PASSENGER	94	539	633	14.8%	85.2%
	SUV	7	28	35	20.0%	80.0%
	TRUCK	5	52	57	8.8%	91.2%
	VAN		9	9	0.0%	100.0%
2007		181	1,825	2,006	9.0%	91.0%
	PASSENGER	155	1,538	1,693	9.2%	90.8%
	SUV	7	72	79	8.9%	91.1%
	TRUCK	16	166	182	8.8%	91.2%
	VAN	3	49	52	5.8%	94.2%
2008		46	344	390	11.8%	88.2%
	PASSENGER	35	282	317	11.0%	89.0%
	SUV	1	10	11	9.1%	90.9%
	TRUCK	9	40	49	18.4%	81.6%
	VAN	1	12	13	7.7%	92.3%
2009		73	636	709	10.3%	89.7%
	PASSENGER	61	551	612	10.0%	90.0%
	SUV	3	18	21	14.3%	85.7%
	TRUCK	9	56	65	13.8%	86.2%
	VAN		11	11	0.0%	100.0%
2010		6	64	70	8.6%	91.4%
	PASSENGER	5	50	55	9.1%	90.9%
	SUV		1	1	0.0%	100.0%
	TRUCK	1	13	14	7.1%	92.9%

MODEL YEAR & TYPE	1ST RETEST FAIL	1ST RETEST PASS	GRAND TOTAL	1ST RETEST FAIL RATE	1ST RETEST PASS RATE
2011	11	283	294	3.7%	96.3%
PASSENGER	8	237	245	3.3%	96.7%
SUV		9	9	0.0%	100.0%
TRUCK	2	35	37	5.4%	94.6%
VAN	1	2	3	33.3%	66.7%
2012		2	2	0.0%	100.0%
PASSENGER		2	2	0.0%	100.0%
2013		6	6	0.0%	100.0%
PASSENGER		5	5	0.0%	100.0%
TRUCK		1	1	0.0%	100.0%
2014		1	1	0.0%	100.0%
PASSENGER		1	1	0.0%	100.0%
GRAND TOTAL	4,819	22,796	27,615	17.5%	82.5%

Subsequent Retests

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2) (iv) The number of vehicles tested by model year and vehicle type that initially failed and passed the second or subsequent retest.

SECOND OR SUBSEQUENT RETEST

MODEL YEAR & TYPE		FAIL	PASS	GRAND TOTAL	FAIL RATE	PASS RATE
1996		94	136	230	40.9%	59.1%
	PASSENGER	66	105	171	38.6%	61.4%
	SUV	5	11	16	31.3%	68.8%
	TRUCK	23	19	42	54.8%	45.2%
	VAN		1	1	0.0%	100.0%
1997		154	298	452	34.1%	65.9%
	PASSENGER	114	232	346	32.9%	67.1%
	SUV	12	14	26	46.2%	53.8%
	TRUCK	25	47	72	34.7%	65.3%
	VAN	3	5	8	37.5%	62.5%
1998		139	216	355	39.2%	60.8%
	PASSENGER	116	173	289	40.1%	59.9%
	SUV	8	10	18	44.4%	55.6%
	TRUCK	9	30	39	23.1%	76.9%
	VAN	6	3	9	66.7%	33.3%
1999		236	402	638	37.0%	63.0%
	PASSENGER	198	321	519	38.2%	61.8%
	SUV	12	20	32	37.5%	62.5%
	TRUCK	14	44	58	24.1%	75.9%
	VAN	12	17	29	41.4%	58.6%
2000		137	252	389	35.2%	64.8%
	PASSENGER	110	207	317	34.7%	65.3%
	SUV	6	7	13	46.2%	53.8%
	TRUCK	13	27	40	32.5%	67.5%
	VAN	8	11	19	42.1%	57.9%
2001		290	529	819	35.4%	64.6%
	PASSENGER	255	447	702	36.3%	63.7%
	SUV	7	20	27	25.9%	74.1%
	TRUCK	13	43	56	23.2%	76.8%
	VAN	15	19	34	44.1%	55.9%
2002		548	293	841	65.2%	34.8%
	PASSENGER	536	262	798	67.2%	32.8%

SECOND OR SUBSEQUENT RETEST

MODEL YEAR & TYPE	FAIL	PASS	GRAND TOTAL	FAIL RATE	PASS RATE
SUV	4	8	12	33.3%	66.7%
TRUCK	4	17	21	19.0%	81.0%
VAN	4	6	10	40.0%	60.0%
2003	154	345	499	30.9%	69.1%
PASSENGER	128	291	419	30.5%	69.5%
SUV	8	15	23	34.8%	65.2%
TRUCK	11	24	35	31.4%	68.6%
VAN	7	15	22	31.8%	68.2%
2004	78	172	250	31.2%	68.8%
PASSENGER	71	147	218	32.6%	67.4%
SUV	6	6	12	50.0%	50.0%
TRUCK		18	18	0.0%	100.0%
VAN	1	1	2	50.0%	50.0%
2005	81	233	314	25.8%	74.2%
PASSENGER	75	201	276	27.2%	72.8%
SUV	4	10	14	28.6%	71.4%
TRUCK	2	13	15	13.3%	86.7%
VAN		9	9	0.0%	100.0%
2006	50	95	145	34.5%	65.5%
PASSENGER	40	80	120	33.3%	66.7%
SUV		5	5	0.0%	100.0%
TRUCK	9	9	18	50.0%	50.0%
VAN	1	1	2	50.0%	50.0%
2007	31	149	180	17.2%	82.8%
PASSENGER	27	129	156	17.3%	82.7%
SUV	1	2	3	33.3%	66.7%
TRUCK	3	14	17	17.6%	82.4%
VAN		4	4	0.0%	100.0%
2008	10	42	52	19.2%	80.8%
PASSENGER	8	33	41	19.5%	80.5%
SUV	1		1	100.0%	0.0%
TRUCK	1	6	7	14.3%	85.7%
VAN		3	3	0.0%	100.0%
2009	15	47	62	24.2%	75.8%
PASSENGER	15	39	54	27.8%	72.2%
TRUCK		8	8	0.0%	100.0%
2010	9	11	20	45.0%	55.0%
PASSENGER	7	11	18	38.9%	61.1%
TRUCK	1		1	100.0%	0.0%
VAN	1		1	100.0%	0.0%
2011		11	11	0.0%	100.0%

SECOND OR SUBSEQUENT RETEST

MODEL YEAR & TYPE	FAIL	PASS	GRAND TOTAL	FAIL RATE	PASS RATE
PASSENGER		9	9	0.0%	100.0%
TRUCK		2	2	0.0%	100.0%
2012	1	3	4	25.0%	75.0%
PASSENGER		1	1	0.0%	100.0%
TRUCK	1	2	3	33.3%	66.7%
GRAND TOTAL	2027	3234	5261	38.5%	61.5%

VEHICLE WAIVERS

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2) (v) The number of vehicles tested by model year and vehicle type receiving a waiver.

A motorist may request a waiver from further inspection requirements for the current inspection cycle if the vehicle fails a second retest after repairs. In general, a waiver may be granted if the motorist exceeds the cost limit on emission-related repairs and adjustments at a recognized repair facility. The waiver repair cost limit excludes emission system warranty repairs and the repair/replacement of tampered emission control devices identified during the equipment check.

Vehicle owners can also apply for a waiver if their vehicles continue to fail the emissions test. A vehicle is eligible for a waiver when the following conditions are met:

1. The vehicle has failed an emissions inspection and following repair and re-inspection, it still does not meet test requirements. Repairs made over 180 days prior to the expiration of the license plate cannot be applied to the waiver repair cost limit.

2. The vehicle has passed a waiver emission equipment inspection to determine if emission control equipment is missing, modified or disconnected.

The Vehicle Inspection Reports (VIR) has been presented to the Waiver Investigator at the time a waiver is requested. The REPAIR DATA section of these reports has been completed in accordance with instructions provided on the report form. Motorists must bring their vehicle and itemized receipts for parts and labor to verify the emission related repairs.

1. For all vehicles which exceed the terms of the manufacturer's emission performance or defect warranty coverage at the time of the scheduled emission inspection, the owner must have emission related repairs performed on the vehicle at a recognized repair facility.

2. The actual costs of emission related repairs and adjustments exceed the repair cost limit for that vehicle's county of domicile. *Only repairs that are related to the vehicle's cause of failure can be used to apply for a cost waiver.* Costs covered by any warranty or costs to repair/replace emission control equipment that has been removed, modified or disconnected are excluded.

3. Until July 1, 2014, the repair cost limit for all model year vehicles subject to testing was $840. The waiver repair cost limit was adjusted to $855 on July 1, 2014. This figure is adjusted annually by the DNR per NR 485.045. The cost limit in 2013 was $840.

The following chart illustrates the cost waivers granted in 2014 by model year. Since odd model year vehicles were tested in 2014, they account for the majority of the waivers.

Model Year & Vehicle Type	Initial Fail	Cost	Diagnostic	Waiver Total	Waiver Rate
1996	**940**	**2**	**4**	**6**	**0.6%**
Passenger	562	0	4	4	0.7%
SUV	182	2	0	2	1.1%
Truck	124	0	0	0	0.0%
Van	72	0	0	0	0.0%
1997	**3266**	**7**	**11**	**18**	**0.6%**
Passenger	2206	4	9	13	0.6%
SUV	410	1	0	1	0.2%
Truck	430	2	1	3	0.7%
Van	220	0	1	1	0.5%
1998	**1366**	**8**	**1**	**9**	**0.7%**
Passenger	878	5	0	5	0.6%
SUV	193	0	0	0	0.0%
Truck	167	2	1	3	1.8%
Van	128	1	0	1	0.8%
1999	**4576**	**9**	**2**	**11**	**0.2%**
Passenger	3128	5	2	7	0.2%
SUV	678	3	0	3	0.4%
Truck	418	0	0	0	0.0%
Van	352	1	0	1	0.3%
2000	**1657**	**7**	**1**	**8**	**0.5%**
Passenger	1174	5	0	5	0.4%
SUV	216	0	1	1	0.5%
Truck	118	2	0	2	1.7%
Van	149	0	0	0	0.0%
2001	**6259**	**39**	**6**	**45**	**0.7%**
Passenger	4487	23	3	26	0.6%
SUV	677	8	1	9	1.3%
Truck	487	0	1	1	0.2%
Van	608	8	1	9	1.5%
2002	**1808**	**15**	**1**	**16**	**0.9%**
Passenger	1240	8	1	9	0.7%
SUV	303	5	0	5	1.7%
Truck	91	1	0	1	1.1%
Van	174	1	0	1	0.6%
2003	**4902**	**21**	**7**	**28**	**0.6%**
Passenger	3394	12	4	16	0.5%
SUV	710	6	1	7	1.0%
Truck	425	0	2	2	0.5%
Van	373	3		3	0.8%

Model Year & Vehicle Type	Initial Fail	Cost	Diagnostic	Waiver Total	Waiver Rate
2004	1070	8	2	10	0.9%
Passenger	704	3	1	4	0.6%
SUV	219	4	0	4	1.8%
Truck	76	0	0	0	0.0%
Van	71	1	1	2	2.8%
2005	**3681**	**13**	**6**	**19**	**0.5%**
Passenger	2565	5	4	9	0.4%
SUV	581	6	1	7	1.2%
Truck	261	1	1	2	0.8%
Van	274	1	0	1	0.4%
2006	**720**	**1**	**2**	**3**	**0.4%**
Passenger	500	1	2	3	0.6%
SUV	115	0	0	0	0.0%
Truck	57	0	0	0	0.0%
Van	48	0	0	0	0.0%
2007	**2423**	**7**	**4**	**11**	**0.5%**
Passenger	1683	3	2	5	0.3%
SUV	302	2	0	2	0.7%
Truck	250	0	2	2	0.8%
Van	188	2	0	2	1.1%
2008	**385**	**1**	**4**	**5**	**1.3%**
Passenger	246	0	3	3	1.2%
SUV	49	0	0	0	0.0%
Truck	50	1	1	2	4.0%
Van	40	0	0	0	0.0%
2009	**829**	**3**	**1**	**4**	**0.5%**
Passenger	571	2	1	3	0.5%
SUV	137	0	0	0	0.0%
Truck	72	0	0	0	0.0%
Van	49	1	0	1	2.0%
2010	**71**	**3**	**0**	**3**	**4.2%**
Passenger	52	0	0	0	0.0%
SUV	4	0	0	0	0.0%
Truck	9	0	0	0	0.0%
Van	6	3	0	3	50.0%
2011	**362**	**0**	**24**	**24**	**6.6%**
Passenger	204	0	22	22	10.8%
SUV	70	0	0	0	0.0%
Truck	45	0	2	2	4.4%
Van	43	0	0	0	0.0%
2012	**11**	**0**	**0**	**0**	**0.0%**
Passenger	8	0	0	0	0.0%

Model Year & Vehicle Type	Initial Fail	Cost	Diagnostic	Waiver Total	Waiver Rate
SUV	0	0	0	0	-
Truck	2	0	0	0	0.0%
Van	1	0	0	0	0.0%
2013	**7**	**0**	**0**	**0**	**0.0%**
Passenger	6	0	0	0	0.0%
SUV	1	0	0	0	0.0%
Truck	0	0	0	0	-
Van	0	0	0	0	-
2014	**2**	**0**	**0**	**0**	**0.0%**
Passenger	1	0	0	0	0.0%
SUV	1	0	0	0	0.0%
Truck	0	0	0	0	-
Van	0	0	0	0	-
2015	**0**	**0**	**0**	**0**	**-**
Passenger	0	0	0	0	-
SUV	0	0	0	0	-
Van	0	0	0	0	-
Grand Total	34335	144	76	220	0.6%

No Final Outcome

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2)(vi) The number of vehicles tested by model year and vehicle type with no final outcome (regardless of reason).

The vehicles included in the table below did not have a final outcome of either a pass or waiver test result during the reporting period.

Vehicles with No Known Final Outcome

	Passenger		SUV		Truck		Van		All	
Model Year	Initial Fail	No Outcome	Initial Fail	No Outcome	Initial Fail	No Outcome	Initial Fail	No Outcome	Initial Fail	No Outcome
1996	562	289	182	98	124	53	72	43	940	483
1997	2,206	925	410	161	430	127	220	86	3,266	1,299
1998	878	445	193	94	167	74	128	65	1,366	678
1999	3,128	1,116	678	244	418	107	352	138	4,576	1,605
2000	1,174	537	216	99	118	34	149	70	1,657	740
2001	4,487	1,540	677	195	487	109	608	199	6,259	2,043
2002	1,240	525	303	93	91	34	174	87	1,808	739
2003	3,394	978	710	159	425	87	373	86	4,902	1,310
2004	704	274	219	75	76	16	71	24	1,070	389
2005	2,565	638	581	127	261	41	274	43	3,681	849
2006	500	193	115	25	57	10	48	14	720	242
2007	1,683	337	302	63	250	65	188	27	2,423	492
2008	246	82	49	12	50	19	40	4	385	117
2009	571	103	137	23	72	10	49	10	829	146
2010	52	19	4		9	2	6	3	71	24
2011										

	Passenger		SUV		Truck		Van		All	
Model Year	Initial Fail	No Outcome	Initial Fail	No Outcome	Initial Fail	No Outcome	Initial Fail	No Outcome	Initial Fail	No Outcome
	204	35	70	13	45	8	43	8	362	64
2012	8	4	-		2		1	1	7	5
2013	6	1	1		-		-		7	1
2014	2	-	1	1	-	-	-	-	2	1
Grand Total	23,610	8,041	4,848	1,482	3,082	796	2,796	908	34,331	11,227

VEHICLES PASSING OR FAILING OBD TEST

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2)(xi) (xii) The number of vehicles tested by model year and vehicle type passing or failing the on-board diagnostic check.

Model Year and Vehicle Type	Fail	Pass	Grand Total	% Fail	% Pass
1996	1,245	6,338	7,583	16.4%	83.6%
Passenger	790	4,320	5,110	15.5%	84.5%
SUV	201	765	966	20.8%	79.2%
Truck	173	886	1,059	16.3%	83.7%
Van	81	367	448	18.1%	81.9%
1997	4,049	27,876	31,925	12.7%	87.3%
Passenger	2,780	19,090	21,870	12.7%	87.3%
SUV	455	2,830	3,285	13.9%	86.1%
Truck	546	4,429	4,975	11.0%	89.0%
Van	268	1,527	1,795	14.9%	85.1%
1998	1,856	9,557	11,413	16.3%	83.7%
Passenger	1,261	6,489	7,750	16.3%	83.7%
SUV	219	1,185	1,404	15.6%	84.4%
Truck	221	1,313	1,534	14.4%	85.6%
Van	155	570	725	21.4%	78.6%
1999	5,609	46,571	52,180	10.7%	89.3%
Passenger	3,929	31,978	35,907	10.9%	89.1%
SUV	732	5,702	6,434	11.4%	88.6%
Truck	524	5,942	6,466	8.1%	91.9%
Van	424	2,949	3,373	12.6%	87.4%
2000	2,179	15,108	17,287	12.6%	87.4%
Passenger	1,589	10,347	11,936	13.3%	86.7%
SUV	235	1,943	2,178	10.8%	89.2%
Truck	172	1,596	1,768	9.7%	90.3%
Van	183	1,222	1,405	13.0%	87.0%
2001	7,592	59,084	66,676	11.4%	88.6%
Passenger	5,565	41,096	46,661	11.9%	88.1%
SUV	724	6,451	7,175	10.1%	89.9%
Truck	595	8,010	8,605	6.9%	93.1%
Van	708	3,527	4,235	16.7%	83.3%
2002	2,764	17,612	20,376	13.6%	86.4%
Passenger	2,114	12,034	14,148	14.9%	85.1%

Model Year and Vehicle Type	Fail	Pass	Grand Total	% Fail	% Pass
SUV	324	2,794	3,118	10.4%	89.6%
Truck	123	1,611	1,734	7.1%	92.9%
Van	203	1,173	1,376	14.8%	85.2%
2003	5,713	74,972	80,685	7.1%	92.9%
Passenger	4,020	50,669	54,689	7.4%	92.6%
SUV	758	11,097	11,855	6.4%	93.6%
Truck	499	8,231	8,730	5.7%	94.3%
Van	436	4,975	5,411	8.1%	91.9%
2004	1,361	17,191	18,552	7.3%	92.7%
Passenger	939	11,378	12,317	7.6%	92.4%
SUV	240	3,238	3,478	6.9%	93.1%
Truck	104	1,602	1,706	6.1%	93.9%
Van	78	973	1,051	7.4%	92.6%
2005	4,214	84,419	88,633	4.8%	95.2%
Passenger	2,945	57,004	59,949	4.9%	95.1%
SUV	604	12,500	13,104	4.6%	95.4%
Truck	339	7,850	8,189	4.1%	95.9%
Van	326	7,065	7,391	4.4%	95.6%
2006	895	16,718	17,613	5.1%	94.9%
Passenger	640	11,506	12,146	5.3%	94.7%
SUV	122	2,646	2,768	4.4%	95.6%
Truck	74	1,284	1,358	5.4%	94.6%
Van	59	1,282	1,341	4.4%	95.6%
2007	2,647	86,372	89,019	3.0%	97.0%
Passenger	1,873	60,550	62,423	3.0%	97.0%
SUV	313	13,415	13,728	2.3%	97.7%
Truck	269	7,785	8,054	3.3%	96.7%
Van	192	4,622	4,814	4.0%	96.0%
2008	443	16,622	17,065	2.6%	97.4%
Passenger	291	10,764	11,055	2.6%	97.4%
SUV	51	3,110	3,161	1.6%	98.4%
Truck	60	1,635	1,695	3.5%	96.5%
Van	41	1,113	1,154	3.6%	96.4%
2009	923	59,774	60,697	1.5%	98.5%
Passenger	651	42,575	43,226	1.5%	98.5%
SUV	141	10,148	10,289	1.4%	98.6%
Truck	82	4,498	4,580	1.8%	98.2%
Van	49	2,553	2,602	1.9%	98.1%
2010	86	4,523	4,609	1.9%	98.1%
Passenger	64	3,129	3,193	2.0%	98.0%

Model Year and Vehicle Type	Fail	Pass	Grand Total	% Fail	% Pass
SUV	4	726	730	0.5%	99.5%
Truck	11	394	405	2.7%	97.3%
Van	7	274	281	2.5%	97.5%
2011	376	63,768	64,144	0.6%	99.4%
Passenger	212	32,276	32,488	0.7%	99.3%
SUV	70	20,381	20,451	0.3%	99.7%
Truck	50	6,575	6,625	0.8%	99.2%
Van	44	4,536	4,580	1.0%	99.0%
2012	12	3,029	3,041	0.4%	99.6%
Passenger	8	1,601	1,609	0.5%	99.5%
SUV		908	908	0.0%	100.0%
Truck	3	291	294	1.0%	99.0%
Van	1	229	230	0.4%	99.6%
2013	7	610	617	1.1%	98.9%
Passenger	6	327	333	1.8%	98.2%
SUV	1	149	150	0.7%	99.3%
Truck		51	51	0.0%	100.0%
Van		83	83	0.0%	100.0%
2014	2	179	181	1.1%	98.9%
Passenger	1	118	119	0.8%	99.2%
SUV	1	41	42	2.4%	97.6%
Truck		11	11	0.0%	100.0%
Van		9	9	0.0%	100.0%
2015		42	42	0.0%	100.0%
Passenger		35	35	0.0%	100.0%
SUV		6	6	0.0%	100.0%
Van		1	1	0.0%	100.0%
Grand Total	41,973	610,365	652,338	6.4%	93.6%

COMPARISON OF ON-BOARD DIAGNOSTIC TESTS WITH OTHER TEST TYPES

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2)(xiii) –(xviii) There is no data for comparing on-board diagnostic tests with other test types because Wisconsin only conducts on-board diagnostic tests.

Check Engine Light Commanded On

A small population of vehicles in southeastern Wisconsin produces most of the vehicle exhaust pollution – these are the so-called gross polluters. As vehicles are driven, problems can develop because of defective parts, improper maintenance or simply from deterioration due to age and usage. This helps explain why a vehicle can be relatively clean one year and become a gross polluter at the time of its next inspection. Since hydrocarbon, carbon monoxide and nitrogen oxides are invisible, a vehicle inspection is an effective method to ensure that a vehicle is not polluting excessively.

In most cases, if the vehicle's check engine light is commanded on due to an emission component malfunction, then the Diagnostic Trouble Codes (DTC) are recorded and provided to the motorist. The vehicle will fail this portion of the inspection if the check engine light is commanded on. However, there are also some instances where the check engine light is on but no DTCs are stored. In either case, the vehicle will need to be repaired and brought back for a re-inspection.

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2)(xix) The number of vehicles tested by model year and vehicle type where the MIL is commanded on and no codes are stored

MIL Commanded On, No DTCs

Model Year	Passenger	SUV	Grand Total
1997	1		1
1999	5		5
2000	3		3
2001	2		2
2003	2		2
2004	1	1	2
2005	1	2	3
2006	1		1
2009	2		2
Grand Total	18	3	21

Another condition that can occur is when the vehicle's check engine light is NOT commanded on but a Diagnostic Trouble Codes (DTC) is stored within the vehicle's computer. The most likely reason for this condition is a pending code indicating a problem within the vehicle that has not yet met the threshold for activating the check engine light, or a condition that has since resolved itself. Since the MIL is not commanded on, the vehicle will pass this portion of the inspection.

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2)(xx)

The number of vehicles tested by model year and vehicle type where the MIL is not commanded on and codes are stored.

MIL Not Commanded On, DTCs Stored

MODEL YEAR	PASSENGER	SUV	TRUCK	VAN	GRAND TOTAL
1996	689	123	165	76	1,053
1997	2,688	418	488	309	3,903
1998	1,075	218	202	85	1,580
1999	3,829	668	701	399	5,597
2000	1,485	251	216	176	2,128
2001	5,293	807	761	408	7,269
2002	1,730	367	154	148	2,399
2003	5,054	1,284	731	445	7,514
2004	1,285	378	155	97	1,915
2005	4,686	948	527	624	6,785
2006	1,054	245	105	117	1,521
2007	3,231	736	363	262	4,592
2008	507	124	123	74	828
2009	1,138	242	153	134	1,667
2010	95	23	20	16	154
2011	482	265	106	123	976
2012	19	12	2	3	36
2013	9	2	2		13
2014	3		1		4
2015	1				1
GRAND TOTAL	34,353	7,111	4,975	3,496	49,935

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2)(xxi)

The number of vehicles tested by model year and vehicle type where the MIL is commanded on and codes are stored.

MIL Commanded On, DTCs Stored

MODEL YEAR	PASSENGER	SUV	TRUCK	VAN	GRAND TOTAL
1996	713	178	140	76	1,107
1997	2,615	413	492	248	3,768
1998	1,153	201	202	146	1,702
1999	3,712	647	463	392	5,214
2000	1,480	199	147	168	1,994
2001	5,242	662	559	665	7,128
2002	1,827	295	110	186	2,418
2003	3,862	695	441	414	5,412
2004	890	224	93	74	1,281
2005	2,822	555	316	319	4,012
2006	609	112	66	56	843
2007	1,799	298	251	184	2,532
2008	275	49	54	39	417
2009	620	134	78	48	880
2010	61	4	11	8	84
2011	187	67	46	43	343
2012	5		1	1	7
2013	5				5
2014	1	1			2
GRAND TOTAL	27,878	4,734	3,470	3,067	39,149

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2)(xxii)

The number of vehicles tested by model year and vehicle type where the MIL is not commanded on and codes are not stored.

MIL Not Commanded On, No DTCs Stored

MODEL YEAR	PASSENGER	SUV	TRUCK	VAN	GRAND TOTAL
1996	4,613	822	891	364	6,690
1997	19,307	2,844	4,541	1,516	28,208
1998	6,788	1,246	1,311	607	9,952
1999	32,105	5,760	5,716	2,913	46,494
2000	10,535	1,984	1,575	1,183	15,277
2001	44,532	6,946	8,558	4,070	64,106
2002	13,422	2,882	1,754	1,387	19,445
2003	51,243	10,746	8,346	5,129	75,464
2004	11,531	3,214	1,680	964	17,389
2005	56,225	12,286	7,836	6,776	83,123
2006	11,441	2,581	1,302	1,243	16,567
2007	59,588	13,066	7,850	4,535	85,039
2008	10,787	3,091	1,663	1,112	16,653
2009	42,560	10,116	4,563	2,491	59,730
2010	3,182	727	404	271	4,584
2011	32,360	20,474	6,686	4,491	64,011
2012	1,619	911	294	233	3,057
2013	324	151	55	86	616
2014	121	41	10	9	181
2015	35	6		1	42
GRAND TOTAL	412,318	99,894	65,035	39,381	616,628

READINESS MONITORS:

A vehicle's OBD system continually tracks and stores information about the emission control devices and other engine related components. Readiness monitors indicate if components have been fully evaluated and whether system components have experienced any driving conditions that prevent the vehicle from operating as designed by the manufacturer. The test equipment reads the readiness monitor statuses as part of the vehicle emissions inspection.

Vehicles "Not Ready" for OBD testing receive a reject test result. For 1996 - 2000 model year vehicles, a vehicle can have up to 2 readiness monitors unset; for 2001 and newer vehicles, only 1 readiness monitor can be unset. If the unset readiness monitors exceed the requirements, the vehicle will be rejected from further testing until this condition is corrected.

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(2)(xxiii)

The number of vehicles tested by model year and vehicle type where the readiness status indicates that the evaluation is not complete for any module supported by on-board diagnostic systems.

Readiness Monitors Not Complete By Model Year and Vehicle Type

MODEL YEAR	PASSENGER	SUV	TRUCK	VAN	GRAND TOTAL
1996	1,036	192	157	81	1,466
1997	3,080	455	598	321	4,454
1998	1,470	291	204	141	2,106
1999	4,193	742	531	395	5,861
2000	1,798	291	189	151	2,429
2001	9,508	1,355	1,359	1,080	13,302
2002	3,276	493	296	377	4,442
2003	5,969	945	825	641	8,380
2004	1,540	367	238	97	2,242
2005	4,081	738	513	360	5,692
2006	1,041	179	133	82	1,435
2007	2,253	394	425	183	3,255
2008	514	100	142	77	833
2009	1,079	204	227	85	1,595
2010	144	24	29	14	211
2011	450	332	204	73	1,059
2012	22	13	3	7	45
2013	2	2	6	3	13
2014	7				7
2015	1				1
GRAND TOTAL	41,464	7,117	6,079	4,168	58,828

Initial Test Volume By Model Year and Station

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(3)

The initial test volume by model year and test station.

Data Found In Appendix I

Initial Test Failure Rate By Model Year and Test Station

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(4)

The initial test failure rate by model year and test station

Data Found in Appendix 2

Change in Tailpipe Emission Levels After Repairs

USEPA Reporting Requirement: 40 CFR Part 51.366 (a)(5)

The average increase or decrease in tailpipe emission levels for HC, CO and NOX (if applicable) after repairs by model year and vehicle type for vehicles receiving a mass emissions test.

Not Applicable – On-Board Diagnostic Testing Only

QUALITY ASSURANCE REPORT

TESTING NETWORK

USEPA Reporting Requirement: 40 CFR Part 51.366 (b)(1)(i)

The number of inspection stations and lanes

The testing network consists of 200 stations and five technical assistance centers. The Private Inspection facilities are listed below in Table III.

PRIVATE INSPECTION FACILITIES OPERATING ON DECEMBER 31, 2014

STATION NUMBER	PRIVATE INSPECTION FACILITY	ADDRESS	CITY	ZIP
WIST1002	Engine & Transmission Exchange	2727 S. 27th St.	Milwaukee	53215
WIST1003	Allenton Service	5908 Hillcrest Dr.	Allenton	53002
WIST1006	Honda City	3450 S 108th St.	Greenfield	53227
WIST1012	Butler Auto Body	4830 N. 125th St.	Butler	53007
WIST1013	Mobil 1 Lube Express #12	W156N8390 Pilgrim Rd	Menomonee Falls	53051
WIST1014	Mission Auto Services	1230 South West Ave	Waukesha	53186
WIST1015	Sudz Wash and Lube	N95W18255 Appleton Avenue	Menomonee Falls	53051
WIST1016	Tenley Auto	9208 W Capitol Dr	Milwaukee	53222
WIST2001	Braeger Chevy Inc	4100 S. 27th St	Milwaukee	53221
WIST2003	Hartnell Chevrolet	7800 Antioch Rd. (Hwy 83)	Salem	53168
WIST2014	Midas Auto Service Center	3706 W. Wisconsin Ave.	Milwaukee	53208
WIST2015	Heiser Toyota	11301 W. Metro Blvd.	Milwaukee	53224
WIST2016	O'Reilly Motor Cars Inc	324 West Cherry St.	Milwaukee	53212
WIST2017	Ewald Chevrolet	36833 E. Wisconsin Ave	Oconomowoc	53066
WIST2018	Fast Track Oil Change #13	1557 E Moreland Blvd	Waukesha	53186
WIST2019	Automotive Solutions	215 Klein Lane	Saukville	53080
WIST2020	Sudz Wash and Lube	7700 W. Rawson Ave	Franklin	53132
WIST2021	Port Washington Superlube	1610 N Wisconsin St	Port Washington	53074
WIST3003	Accelerated Auto Service	667 W. State St.	Burlington	53105

STATION NUMBER	PRIVATE INSPECTION FACILITY	ADDRESS	CITY	ZIP
WIST3004	Gordie Boucher Ford	8301 75th St.	Kenosha	53142
WIST3005	Gordie Boucher Ford Lincoln	3021 W. Washington St.	West Bend	53095
WIST3006	Martin's Automotive Services	W230S8750 Wynn Dr	Big Bend	53103
WIST3013	John Amato Hyundai Inc.	8301 N. 76th St.	Milwaukee	53223
WIST3014	Komp Tech Automotive Service	8832 W. Greenfield Ave.	West Allis	53214
WIST3016	Mobil 1 Lube Express	1328 Indiana Ave.	Sheboygan	53081
WIST3017	Valvoline	6100 N Port Washington Rd	Glendale	53217
WIST3018	Larry's Auto	6373 N 91st St	Milwaukee	53225
WIST3019	Lemay Auto	8220 75th ST	Kenosha	53142
WIST4002	Joe's Slinger Service LLC	220 Info Hwy. Crt.	Slinger	53086
WIST4003	Kusch's Automotive	136 N. 120th St.	Wauwatosa	53226
WIST4004	Jim's Mobil Service Inc.	12401 W. Cleveland Ave.	New Berlin	53151
WIST4006	Newman Chevrolet	1181 Wauwatosa Rd	Cedarburg	53012
WIST4009	Bluemound Auto Service	6000 W. Bluemound Rd	Wauwatosa	53213
WIST4011	Jenior Tire & Automotive Service Inc.	201 S Main St.	Thiensville	53092
WIST4014	Laubenheimer's Garage LLC	1860 Hwy 175, PO Box 36	Richfield	53076
WIST4017	F & F Tire World	2930 W. Rawson Ave.	Franklin	53132
WIST4019	Fleet Auto Sales & Service	7400 W. National Ave.	West Allis	53214
WIST4024	Girard's Service	5517 W. Rawson Ave.	Franklin	53132
WIST4026	Russ Darrow Kia of Wauwatosa	1901 N. Mayfair Rd	Wauwatosa	53226
WIST4031	R & R Automotive	6930 39th Ave.	Kenosha	53142
WIST4032	Laus Tire & Auto	5025 W. Villard Ave.	Milwaukee	53218
WIST4039	Van Horn Dodge	3000 Eastern Ave	Plymouth	53073
WIST4040	Ewald Venus Ford	2727 E. Layton Ave.	Cudahy	53110
WIST4042	Meineke Car Care Center	4320 S 27TH ST	Milwaukee	53221
WIST4043	Fast Track Oil Change #7	4296 S 27TH ST	Milwaukee	53221
WIST4044	Fast Track Oil Change #11	6207 W North Ave	Wauwatosa	53213
WIST4045	Bob's Main Street Auto & Tow	1200 N Main St	West Bend	53090
WIST4046	Valvoline	3015 52nd St	Kenosha	53144

STATION NUMBER	PRIVATE INSPECTION FACILITY	ADDRESS	CITY	ZIP
WIST4047	Valvoline	7028 W Capitol Dr	Milwaukee	53216
WIST4048	West Bend Super Lube	2535 W Washington St	West Bend	53095
WIST4049	LaBelle Auto	N56W39413 Hwy 16	Oconomowoc	53066
WIST4050	Rick's Car Care	6121 W Mequon Rd	Mequon	53092
WIST4051	Kastenson Auto	21445 Durand Ave	Union Grove	53182
WIST5003	Russ Darrow Chrysler Jeep Dodge	7676 North 76th St	Milwaukee	53223
WIST5004	O'Gorman's West Town Auto	7105 W. North Ave.	Wauwatosa	53213
WIST5005	Dave's Garage Inc.	5454 W. Forest Home Ave.	Greenfield	53220
WIST5007	Monro	N88W15176 Main St.	Menomonee Falls	53051
WIST5008	Bob's Main Street Auto & Tow	115 W. Decorah Rd	West Bend	53095
WIST5009	F & F Tire World	410 N. Moorland Rd	Brookfield	53005
WIST5011	F & F Tire World	20120 Bluemound Rd.	Brookfield	53045
WIST5012	Krueger's Auto Tech Center	W61N225 Cardinal Ave.	Cedarburg	53012
WIST5014	Frank Boucher Chevrolet Cadillac	8600 Washington Ave.	Racine	53406
WIST5015	Durand Automotive Center	1623 Durand Ave.	Racine	53403
WIST5017	Pro Auto Center	303 E. Monroe Ave.	Hartford	53027
WIST5021	Monro	5930 W. Bluemound Rd	Milwaukee	53213
WIST5023	Russ Darrow Mitsubishi	W226S1700 Hwy 164	Waukesha	53186
WIST5028	Braeger Ford Inc	4201 S. 27th St	Milwaukee	53221
WIST5029	Palmen Buick, GMC, Cadillac	7110 74th Place	Kenosha	53142
WIST5036	Monro	3849 S. 27th St.	Milwaukee	53221
WIST5037	Richlonns Tire & Service Center	4440 S. 108th St.	Greenfield	53228
WIST5040	Dads Auto Service	S98W12575 Loomis Crt.	Muskego	53150
WIST5041	Falls Auto Tech	N84W15859 Appleton Ave.	Menomonee Falls	53051
WIST5044	Russ Darrow Nissan	11212 W Metro Blvd	Milwaukee	53224
WIST5045	Dave's Truck & 4 X 4 Repair, LLC	2993 Sherman Rd.	Jackson	53037
WIST5047	Monro	1212 S. 108th St.	West Allis	53214
WIST5049	Chris Auto Service	14000 W. Greenfield Ave.	Brookfield	53005

STATION NUMBER	PRIVATE INSPECTION FACILITY	ADDRESS	CITY	ZIP
WIST5052	Jacks Auto Service Inc.	9901 Kraut Rd	Franksville	53126
WIST5053	Mayer Automotive LLC.	W6082 Hwy W	Cascade	53011
WIST5055	Curriepark Auto Center	10745 W. Capitol Dr.	Wauwatosa	53222
WIST5056	Aamco Transmission #15160 (#423)	9055 N. 76th St.	Milwaukee	53223
WIST5058	Ruby Isle Auto	11137 W. Silver Spring Dr.	Milwaukee	53225
WIST5061	Engine & Transmission Exchange	1604 S. West Ave.	Waukesha	53189
WIST5066	Grady's Automotive Inc.	6272 S. Packard Ave	Cudahy	53110
WIST5069	Fast Track Oil Change #08	7515 W Capitol Dr	Milwaukee	53216
WIST5070	Tender Car Care	1825 S Kinnickinnic Ave	Milwaukee	53204
WIST5071	Fast Track Oil Change #05	5428 Washington Ave	Racine	53406
WIST5072	Habhegger	102 E Capitol Dr	Milwaukee	53212
WIST5073	Valvoline	1700 E North Ave	Milwaukee	53202
WIST6001	M & M Citgo	2101 Douglas Ave.	Racine	53402
WIST6004	Chuck's Main St. Auto	N64W23876 Main St.	Sussex	53089
WIST6007	Anderson Automotive	240 Highland Dr.	Fredonia	53021
WIST6012	Monro	7500 W. Layton Ave.	Greenfield	53220
WIST6013	Lutter's Elmbrook Automotive	16880 Greenfield Ave.	Brookfield	53005
WIST6014	Monro	6084 S. Packard Ave.	Cudahy	53110
WIST6016	Mertens Auto Service Center	389 Milwaukee Ave.	Burlington	53105
WIST6018	Paul's Bender Center	8313 22nd Ave.	Kenosha	53143
WIST6021	Maddison Automotive	210 N. Wales Rd.	Wales	53183
WIST6022	Hall Automotive	11011 W. North Ave	Milwaukee	53226
WIST6026	Martin Ford	19215 Spring St	Union Grove	53182
WIST6027	Valvoline	1812 Silvernail Rd	Pewaukee	53072
WIST6028	Hands on Garage	5757 N Lovers Lane	Milwaukee	53225
WIST6029	Valvoline	5920 21st St	Racine	53405
WIST6030	John Amato Ford	1015 S Main St	Mukwonago	53149
WIST6031	Valvoline	N167S7825 Lions Park Dr	Muskego	53150
WIST7003	Anastos Motors Inc.	4513 S. Greenbay Rd	Kenosha	53144

STATION NUMBER	PRIVATE INSPECTION FACILITY	ADDRESS	CITY	ZIP
WIST7004	Passehl's BP	4625 Taylor Ave.	Racine	53405
WIST7006	Russ Darrow West Bend	3210 W. Washington St.	West Bend	53095
WIST7007	Midas	1230 S. Green Bay Rd	Racine	53406
WIST7009	Russ Darrow Honda	9301 W. Brown Deer Rd	Milwaukee	53224
WIST7011	Salem Auto Service	8515 Antioch Rd	Salem	53168
WIST7014	Oak Creek Automotive Inc.	7948 S. 27th St.	Oak Creek	53154
WIST7015	Monro	13190 W. Capitol Dr.	Brookfield	53005
WIST7016	Hartland Services Inc.	400 Industrial Dr	Hartland	53029
WIST7017	Richlonns Tire & Service Centers	5418 Washington Ave.	Racine	53406
WIST7018	Ernie von Schledorn, Inc.	N88W14167 Main St.	Menomonee Falls	53051
WIST7019	Affordable Car & Marine Firestone	12465 W. Lisbon Rd	Brookfield	53005
WIST7020	American Muffler & Automotive	5933 S. Pine St.	Burlington	53105
WIST7021	Expert Car Care Inc.	6803 W. National Ave.	West Allis	53214
WIST7022	John Paul's Buick GMC	3615 S. 108th St.	Greenfield	53228
WIST7023	Lisbon Sales & Services	7515 W. Lisbon Ave.	Milwaukee	53216
WIST7024	Midas	4500 52nd St.	Kenosha	53144
WIST7025	Midas	N96W18375 Hwy Q	Menomonee Falls	53052
WIST7027	Midas Auto Service Center	5811 W. Capitol Dr.	Milwaukee	53216
WIST7030	National Pride Auto	5512 75th St.	Kenosha	53142
WIST7031	Nelson's Automotive of Pewaukee	N49W22900 Commerce Ctr. Dr.	Pewaukee	53072
WIST7032	North Avenue Firestone	4926 W. North Ave.	Milwaukee	53208
WIST7033	Pinkalla Auto Solutions	3059 Durand Ave.	Racine	53403
WIST7036	Racine Auto Specialist	2320 Douglas Ave.	Racine	53402
WIST7039	Richfield Service	1810 Wolf Rd	Richfield	53076
WIST7040	Richlonns Tire & Service Center	S78W18755 Janesville Rd	Muskego	53150
WIST7041	Richlonns Tire & Service Center	5131 S. 76th St.	Greendale	53129
WIST7042	Richlonns Tire & Service Center	2480 W. Sunset Dr.	Waukesha	53189
WIST7044	River Falls Oil & Tire	N88W15220 Main St.	Menomonee Falls	53051

STATION NUMBER	PRIVATE INSPECTION FACILITY	ADDRESS	CITY	ZIP
WIST7045	Rivers Edge Oil & Tire	811 S. Rochester St.	Mukwonago	53149
WIST7046	Weigman's Automotive Inc	7169 W. Fond du Lac Ave.	Milwaukee	53218
WIST7049	Russ Darrow Toyota	2700 W. Washington St.	West Bend	53095
WIST7052	Silver Lake Auto Service Inc.	36355 E. Wisconsin Ave.	Oconomowoc	53066
WIST7053	Silver Lake Auto Service Inc.	551 N. Cogswell Dr.	Silver Lake	53170
WIST7054	Sippl's Auto Service Inc.	N87W17460 Main St.	Menomonee Falls	53051
WIST7055	South Milwaukee Car Care Center	1221 N. Chicago Ave.	South Milwaukee	53172
WIST7056	Southtown Tire & Auto	2906 S. 108th St.	West Allis	53227
WIST7061	Theel Auto Inc.	N8364 County Rd J	Elkhart Lake	53020
WIST7062	Tires Unlimited Automotive Service	1557 N. Wisconsin St.	Port Washington	53074
WIST7065	Twenty First Century Auto	5300 W. Forest Home Ave.	Milwaukee	53220
WIST7067	Village Tire & Auto	W172N12185 Division Rd	Germantown	53022
WIST7068	Wales Super Lube #421	120 W. Summit Ave	Wales	53183
WIST7069	Silvernail Emissions	2210 Silvernail Rd	Pewaukee	53072
WIST7070	Weissman Automotive	W140N10455 Fond du Lac Ave.	Germantown	53022
WIST7071	Welks Automotive	8333 W. Layton Ave.	Greenfield	53220
WIST7072	Westside Auto Center	820 W. Sumner St.	Hartford	53027
WIST7073	Wilmot Auto Service Inc.	11307 Fox River Rd	Wilmot	53192
WIST7074	Wisconsin Muffler	3634 W. Lincoln Ave.	Milwaukee	53215
WIST7075	Wisconsin Muffler	13320 W. College Ave.	New Berlin	53151
WIST7076	WJ Kuhn Automotive Center Inc.	8511 S. Howell Ave.	Oak Creek	53154
WIST7078	Griffin Ford	1940 E. Main St.	Waukesha	53186
WIST7079	Koplein Tune & Lube	7960 N. 76th St.	Milwaukee	53223
WIST7080	Schmidt Bros Ford Lincoln	925 E. Green Bay Rd	Saukville	53080
WIST7081	Farkas Automotive Inc.	8008 N. Sherman	Brown Deer	53209
WIST7083	Sheboygan Chevrolet GMC Buick	3400 S. Business Dr.	Sheboygan	53081
WIST7086	Russ Darrow Kia of Waukesha	2141 E. Moreland Blvd	Waukesha	53186
WIST7088	Hoffman Auto & Tire	5616 Green Bay Rd	Kenosha	53144

STATION NUMBER	PRIVATE INSPECTION FACILITY	ADDRESS	CITY	ZIP
WIST7090	Carwurx Plus	10685 W. Layton Ave.	Greenfield	53228
WIST7092	G-Brock's Auto Repair	375 E. Ottawa Ave	Dousman	53118
WIST7093	Gordon's Wheel Service	3595 N. 124 St.	Brookfield	53005
WIST7094	Muskego Tire & Auto	S73W16610 Janesville Rd	Muskego	53150
WIST7095	National Complete Auto Care	16405 W. National Ave.	New Berlin	53151
WIST7098	Shorewood Auto Repair	1330 E. Capitol Dr.	Shorewood	53211
WIST7103	Meyer Motors Inc.	107 Plaza Lane	Plymouth	53073
WIST7104	Heiser Quick Motors	7800 N 76th St.	Milwaukee	53223
WIST7106	Wilde Toyota	3225 S. 108 St.	West Allis	53227
WIST7108	Mobil1 Lube Express	2757 Calumet Dr.	Sheboygan	53081
WIST7109	Mobil1 Lube Express	3669 S. Taylor Dr.	Sheboygan	53081
WIST7111	Valvoline	3360 S. 27th St.	Milwaukee	53221
WIST7112	Valvoline	112 S. 68th St.	Milwaukee	53214
WIST7113	Fast Track Oil Change #03	5400 S. 108th St.	Hales Corners	53130
WIST7115	Black Tie Auto Services	S84W21172 Janesville Rd	Muskego	53150
WIST7116	Fast Track Oil Change #10	14245 W. Capitol Dr.	Brookfield	53005
WIST7117	Sudz Wash and Lube	5506 S Packard Ave	Cudahy	53110
WIST7118	Tech Way	4004 S Kinnickinnic Ave	St Francis	53235
WIST7119	Fast Track Oil Change #02	W62N271 Washington Ave	Cedarburg	53012
WIST7120	Manyo Motors	909 E Locust St	Milwaukee	53212
WIST7121	Boucher Hyundai	1583 E Moreland Blvd	Waukesha	53186
WIST7122	Valvoline	1950 Eastern Ave	Plymouth	53073
WIST8001	Silver Lake Auto Center	N76W30620 HWY VV	Hartland	53029
WIST8002	Fast Track Oil Change #1	15400 W National Ave	New Berlin	53151
WIST8004	National Auto Tech	630 W. National Ave	Milwaukee	53204
WIST8005	Fast Track Oil Change #04	6942 W Brown Deer Rd	Milwaukee	53223
WIST8006	Fast Track Oil Change # 09	5450 N Port Washington Rd	Glendale	53216
WIST8007	Fast Track Oil Change #6	3130 S 108th St	West Allis	53227
WIST8008	R.K. Motors	3700 N Holton St	Milwaukee	53212

STATION NUMBER	PRIVATE INSPECTION FACILITY	ADDRESS	CITY	ZIP
WIST8009	Jackson Superlube	W213N16770 Glen Brook Dr	Jackson	53037
WIST8010	Pope Auto	10204 W Greenfield Ave	West Allis	53214
WIST8011	Mike's Quality Auto	457 Falcon Ridge Dr	Burlington	53105
WIST8014	Oak Creek Superlube	6906 S 27th St	Oak Creek	53154

Private Inspection Facilities Deactivated In 2014

DATE DEACTIVATED	STATION NUMBER	COMPANY	ADDRESS	CITY	ZIP
1/3/14	WIST5026	Bob Fish Buick GMC	2275 S. Main St.	West Bend	53095
4/10/14	WIST7038	Rhode's Auto and Truck	8640 Sheridan Rd	Kenosha	53143
5/16/14	WIST7091	Carwurx	6906 S 27th St	Oak Creek	53154
5/23/14	WIST5050	Boucher Kia	8730 N. 91st St	Milwaukee	53224
6/3/14	WIST1011	Lynch Truck Center	29000 Sharon Lane	Waterford	53185
6/6/14	WIST7026	Midas	6050 N. 91st St.	Milwaukee	53225
6/13/14	WIST2006	LaBelle Auto	N56 W39413 Hwy 16	Oconomowoc	53066
6/15/14	WIST5043	F & F Tire World	4671 S. 27th St.	Milwaukee	53220
6/28/14	WIST4041	Hillside Auto Body & Service	1336 East Main St.	Waukesha	53186
6/28/14	WIST7012	Import Specialists Inc.	2121 Ole Davidson Rd (N. Hwy 31)	Racine	53405
7/3/14	WIST7084	Uptown Chevrolet	1101 E. Commerce Blvd	Slinger	53086
7/11/14	WIST7037	Ralph's Auto Center Inc.	W395 N5700 Frontier Rd	Oconomowoc	53066
8/6/14	WIST7114	S & F	8440 W. Cleveland Ave.	West Allis	53227
8/8/14	WIST5067	Lynch GM Superstore	2300 Browns Lake Dr.	Burlington	53105
8/25/14	WIST4036	Boucher Chevrolet, Inc.	1421 E. Moreland Blvd	Waukesha	53186
10/22/2014	WIST5068	Brookfield Super Lube	600 Woelfel Rd	Brookfield	53045
10/24/2014	WIST7087	Dave's American Discount Muffler	8719 Sheridan Rd	Kenosha	53142
11/5/2014	WIST7034	Power's Tire & Auto	3347 Kohler Memorial Ste. 24	Sheboygan	53081
11/5/2014	WIST5001	Lois Tire Shop	916 Milwaukee Ave.	Burlington	53105
11/7/2014	WIST5022	Lindem's Auto Repair	117 E. Capitol Dr	Milwaukee	53212
12/1/2014	WIST7066	J & N's Automotive	447 Bay View Rd	Mukwonago	53149
12/1/2014	WIST7043	River Crest Tire & Auto	880 Main St.	Mukwonago	53149
12/1/2014	WIST7060	Tenhagen Auto Service	21445 Durand Ave.	Union Grove	53182
12/5/2014	WIST3007	Lynch Chevrolet	7650 75th St.	Kenosha	53142
12/18/2014	WIST7057	Subaru City	4640 S. 27th St.	Milwaukee	53221

Technical Assistance Centers

STATION NUMBER	COMPANY	ADDRESS	CITY	ZIP
WISTT001	Jerry's Auto Service Inc. (TAC)	W229N2467 Hwy F	Waukesha	53186
WISTT002	Anaya's Auto Repair (TAC)	2515 52nd St.	Kenosha	53140
WISTT003	Auto Analyzers (TAC)	8404 W. Greenfield Ave.	West Allis	53214
WISTT005	Schaefer Service Center (TAC)	1130 E. Commerce Blvd	Slinger	53086
WISTT006	Carlton Automotive Inc. (TAC)	1318 Center St., PO Box 700288	Oostburg	53070

Overt and Covert Performance Audits Needs updates

USEPA Reporting Requirement: 40 CFR Part 51.366 (b)(2)(i)(ii)(v)

The number of inspection stations and lanes operating throughout the year:

(i) Receiving overt performance audits in the year: 218

(ii) Not receiving overt audits in the year: 3

(iii) Receiving covert audits in the year: 218

(iv) Not receiving covert audits in the year: 3

(v) That have been shut down as a result of overt performance audits: 6

State auditors conduct overt performance audits in conjunction with their equipment audits each week at the inspection facilities. The following table addresses the overt and covert performance audit activity.

Covert Audits

USEPA Reporting Requirement: 40 CFR Part 51.366 (b)(3)

There were 433 covert audits conducted in 2014.

Fines, Suspension or Termination Due to Audit Failures

USEPA Reporting Requirement: 40 CFR Part 51.366 (b)(4)

No inspectors or stations were suspended, fined or prohibited from testing as a result of overt or covert audits.

Seven inspectors and three stations were suspended or prohibited from testing due to violations uncovered during data analysis.

Number of inspectors licensed or certified to conduct testing

USEPA Reporting Requirement: 40 CFR Part 51.366 (b)(5)

There were 1,468 inspectors certified to conduct tests in 2014.

Number of hearings

USEPA Reporting Requirement: 40 CFR Part 51.366 (b)(6)

There were 0 hearings held to consider adverse actions against inspectors and stations.

Fines

USEPA Reporting Requirement: 40 CFR Part 51.366 (b)(7)

There was $0 collected in fines from inspectors and stations.

Covert Audits

USEPA Reporting Requirement: 40 CFR Part 51.366 (b)(8)

There were 5 covert vehicles available for undercover audits.

USEPA Reporting Requirement: 40 CFR Part 51.366 (b)(9)

There was 5 auditor(s) available for undercover audits.

QUALITY CONTROL REPORT

NUMBER OF EMISSION TESTING SITES AND LANES

USEPA Reporting Requirement: 40 CFR Part 51.366 (c)(1)

There were 221 inspection sites available for testing in 2014.

NUMBER OF EQUIPMENT AUDITS BY STATION AND LANE

USEPA Reporting Requirement: 40 CFR 51.366 (c)(2)

Equipment audits by station and lane.

There were 3,723 equipment audits conducted in 2014.

USEPA Reporting Requirement: 40 CFR 51.366 (c)(3)

The number and percentage of stations that have failed equipment audits:

There were 0 stations that failed equipment audits in 2014.

USEPA Reporting Requirement: 40 CFR 51.366 (c)(4)

The number and percentage of stations and lanes shut down as a result of an equipment audit:

There were 0 stations that were shut down resulting from an equipment audit failure.

ENFORCEMENT REPORT

USEPA Reporting Requirement: 40 CFR 51.366 (d)(1)(i): An estimate of the number of vehicles subject to the inspection program, including the results of an analysis of the registration database.

Each month, the Wisconsin Department of Transportation selects vehicles subject to the mandatory testing requirement for registration renewal purposes. There were 555,345 vehicles selected (model years: 1997, 1999, 2001, 2003, 2005, 2007, 2009 and 2011) for notification in 2014. There were an additional estimated 145,657 vehicles selected for notification at change of ownership, for an estimated 701,002 vehicles.

USEPA Reporting Requirement: 40 CFR 51.366 (d)(1)(ii): The percentage of motorists compliance based upon a comparison of the number of valid final tests with the number of subject vehicles.

Overall, 603,774 vehicles receiving mandatory inspections in 2014 received a pass, waiver or diagnostic waiver test result. This is an 86.1% compliance rate for mandatory testing requirements. Variables include vehicles that changed ownership at the time their registrations were due and vehicles that were moved outside of the testing area after the registration select occurred.

USEPA Reporting Requirement: 40 CFR 51.366 (d)(1)(iii): The total number of compliance documents issued to inspection stations. o

USEPA Reporting Requirement: 40 CFR 51.366 (d)(1)(iv) The number of missing compliance documents. o

USEPA Reporting Requirement: 40 CFR 51.366 (d)(1)(v) The number of time extensions and other exemptions granted to motorists.

There were 22,256 temporary plates issued in 2014. WisDOT Vehicle Emissions Inspection Unit issued 282 temporary exemptions, and DMV issued 3,712 temporary exemptions in 2014.

USEPA Reporting Requirement: 40 CFR 51.366 (d)(1)(vi) The number compliance surveys conducted, number of vehicles surveyed in each, and the compliance rates found.

There were no compliance surveys conducted in 2014.

REGISTRATION DENIAL BASED ENFORCEMENT PROGRAMS

USEPA Reporting Requirement: 40 CFR 51.366 (d)(2)(i) A report of the program's efforts and actions to prevent motorists from falsely registering vehicles out of the program area or falsely changing fuel type or weight class on the vehicle registration, and the results of special studies to investigate the frequency of such activity.

In 2014, WisDOT personnel completed investigations on 216 vehicles that listed domicile outside of the program area, but were suspected of being kept in the program area. After receiving notification for WisDOT, 78 vehicles submitted to testing and received a passing result; 66 vehicles were suspended for failing to comply; 43 were junked or sold and 29 provided verification that they were being kept outside of the program area.

USEPA Reporting Requirement: 40 CFR 51.366 (d)(2)(ii) The number of registration file audits, number of registrations reviewed and compliance rates found in such audits.

There were no registration file audits conducted in 2014.

COMPUTER-MATCHING BASED ENFORCEMENT PROGRAMS

USEPA Reporting Requirement: 40 CFR 51.366 (d)(3) Wisconsin is a registration denial based enforcement system. This section is not applicable.

STICKER- BASED ENFORCEMENT PROGRAMS

USEPA Reporting Requirement: 40 CFR 51.366 (d)(4) Wisconsin is a registration denial based enforcement system. This section is not applicable

ADDITIONAL REPORTING REQUIREMENTS

BIENNIAL REPORT WISCONSIN VEHICLE EMISSIONS TESTING PROGRAM INSPECTION AND MAINTENANCE PROGRAM 2013 – 2014

INTRODUCTION

This report has been prepared for the U.S. Environmental Protection Agency (U.S. EPA), in compliance with the requirements of 40 CFR 51.366. The information in this report covers the reporting period of 2013-2014.

Since 1984, the DOT and DNR have jointly administered the Wisconsin Vehicle Inspection Program (WIVIP, or I/M PROGRAM). DNR establishes the emissions limitations and DOT administers the program. The program exists in response to requirements of the federal Clean Air Act, administered by U.S. EPA.

The WIVIP addresses violations of the 8-hour ozone and carbon monoxide National Ambient Air Quality Standards. The primary goals of this program are to identify and repair vehicles emitting excessive amounts of targeted air pollutants – carbon monoxide (CO), nitrogen oxides (NOx), and volatile organic compounds (VOCs). The program also reduces emissions of particulate matter and toxic chemicals such as benzene, 1-3 butadiene and formaldehyde.

The I/M program began operating as a basic program in Wisconsin's six-county "severe" ozone non-attainment area – Kenosha, Milwaukee, Ozaukee, Racine, Washington and Waukesha counties. The program expanded to Sheboygan County, designated a "moderate" ozone nonattainment area, in July 1993. Initially, all vehicle inspections consisted of measuring tailpipe emission levels. Since July of 2001, however, all model year 1996, newer cars and light trucks received inspections by scanning the vehicles' computerized second-generation on-board diagnostic (OBO-II) systems. In July 2008, the program dropped tailpipe testing entirely and thereby inspected all vehicles by scanning the OBD-II systems. This resulted from statutory changes in the 2007-2009 biennial budgets exempting from the vehicle inspection program the model years of vehicles not federally required to be equipped with the OBD-II technology (model year 1995 and older cars and light trucks and model year 2006 and older heavy trucks). The WIVIP tested approximately 609,000 vehicles in 2013. Including all tests issued with a result of pass, fail, abort, void, or waived, the WIVIP conducted 645,819 tests. The program's aggregate failure rate in 2013 (among pass and fail results) was 5.9 %.

The primary mode of I/M program compliance enforcement in Wisconsin is denial of vehicle registration. Testable vehicles in the seven I/M counties must obtain either a passing emission inspection or a waiver before the owner can renew her/his registration. Upon completing the testing and registration renewal process, the motorist receives a license plate sticker indicating the month and year until which the registration remains valid.

Currently, motorists qualified to renew their registration may do so through the WisDOT Division of Motor Vehicles (DMV), at an emissions inspection station, or at one of numerous other authorized third-party DMV Agent sites. The latter include a variety of businesses, e.g. convenience marts, financial service centers, and some municipal offices.

USEPA Reporting Requirement: 40 CFR 51.366 (3)(1) Any changes made to the program design, funding, personnel levels, procedures, regulations, and legal authority with detailed discussion and evaluation of the impact on the program of all such changes

Wisconsin Statute Changes

In 2014 Chapter 110, Motor Vehicles, Wis. Statutes, was amended to prohibit a person from knowingly doing any of the following:

- Altering data from an emissions inspection.
- Submitting a false report of data from a required emissions inspection.
- Attributing data from an emissions inspection to a vehicle other than the vehicle tested.

Chapter 341, Registration of Vehicles, was amended to require DOT to refuse to register a motor vehicle for which the most recent emissions inspection involved a violation of one of the above prohibitions related to emissions inspections.

The rationale was to provide greater deterrence of fraud and abuse in vehicles emissions inspections.

Administrative Rule Changes

In 2014, Chapter Trans 131, Motor Vehicle Inspection and Maintenance Program (MVIP), Wis. Administrative Code, was revised to reflect the current decentralized OBD II only program.

- The vehicle owner is no longer required to yield the driver's seat. This requirement was necessary when vehicles were tested on a dynamometer, which required the inspectors to operate the vehicles from the driver's seat.
- " Registered" repair facilities was amended to "recognized" repair facilities. A list of recognized facilities is provided to vehicle owners upon a failed emission test.
- The ability for contractor employees to appeal revocation or suspension to the department's hearing officer was repealed. The program is now decentralized, and inspectors are employed by subcontracted private inspection facilities.

Waiver Repair Cost Limit Raised

The waiver repair cost limit increased to $855, effective July 1, 2014.

Systech International, LLC changed to Opus Inspection, Inc.

The WIVIP contractor's name, Systech International, LLC, changed to Opus Inspection, Inc. The contract was assigned to Opus in 2014.

USEPA Reporting Requirement: 40 CFR 51.366 (3)(2) Any weaknesses or problems identified in the program within the two-year reporting period, what steps have already been taken to correct these problems, the results of those steps, and any future efforts planned.

Program Issues Identified and Corrected

The Wisconsin DOT and Opus Inspection worked together on an ongoing basis to address and resolve any issues that arose during the operation of the vehicle inspection and maintenance program. . The continuing communication between the parties results in no long-term issues needing enforcement actions to be brought against Opus Inspection.

The additional trigger reports provided by Opus Inspection indicating potential fraud made more resources available to monitor compliance.

Revisions to administrative rules and statutes represented additional efforts by DOT to combat and eliminate fraud and abuse in vehicle emissions inspections.

40 CFR Part 51.366 (a)(3)
Initial Test Volume by Model Year and Test Station

Station ID	Total Tests	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
WIST1002	2,083	38	173	53	222	73	251	93	316	98	245	68	219	64	88	10	68		4		
WIST1003	1,201	10	58	7	84	28	115	32	147	28	171	21	184	37	120	6	144	6	3		
WIST1006	3,409	23	91	22	167	29	249	64	399	74	477	94	571	85	486	32	503	31	10	2	
WIST1011	908	5	28	11	78	19	84	21	130	20	120	16	144	20	100	4	107	1			
WIST1012	714	3	46	15	51	19	78	17	93	21	86	25	112	17	61	8	58	4			
WIST1013	2,326	14	63	23	139	27	178	45	291	41	343	47	396	64	304	20	318	12	1		
WIST1014	3,388	37	176	65	287	87	368	100	474	94	453	97	451	86	274	19	302	15	2		1
WIST1015	5,861	36	171	58	363	81	482	139	701	133	866	127	942	151	668	37	850	51	1	4	
WIST1016	136	1	1	4	12	8	12	7	8	3	15	6	29	8	7	2	12	1			
WIST2001	4,022	31	153	67	264	97	371	114	512	122	553	138	545	171	414	38	396	29	6	1	
WIST2003	2,462	10	105	23	164	61	190	68	307	74	342	70	372	74	243	18	322	15	3		1
WIST2006	257	2	13	2	18	8	32	2	34	7	28	9	40	7	28	1	26				
WIST2014	5,517	136	341	195	537	307	620	261	612	237	593	204	574	186	358	38	287	15	13	3	
WIST2015	2,563	20	56	32	120	44	164	56	257	59	326	85	463	79	376	28	369	18	9	2	
WIST2016	3,168	43	133	66	230	95	258	98	359	116	396	121	429	137	329	29	311	16		1	1
WIST2017	2,357	8	68	24	97	23	150	45	228	58	296	53	406	97	288	29	463	20	3	1	
WIST2018	5,024	41	187	59	302	109	458	153	575	123	736	149	779	137	529	41	625	19	2		
WIST2019	965	7	50	17	78	19	115	25	131	17	140	21	138	18	98	10	70	2	9		
WIST2020	5,133	46	152	43	286	77	397	94	628	97	744	117	759	133	639	44	817	49	9	2	
WIST2021	22				1				1	1	3	3	5	1	1	1	4	1			
WIST3003	1,194	14	58	21	97	32	136	39	122	32	182	32	164	30	100	6	118	9	1	1	
WIST3004	2,596	16	89	25	159	45	207	75	265	61	380	66	371	79	309	20	394	30	4	1	
WIST3005	3,704	32	143	30	216	64	347	61	447	108	538	89	539	105	378	28	551	24	1	2	1
WIST3006	1,498	18	86	21	144	35	195	20	207	39	214	22	190	37	121	4	137	5	1	2	
WIST3007	1,548	14	42	7	72	31	94	34	143	43	181	39	257	52	203	12	318	2	4		
WIST3013	3,831	48	151	78	257	105	301	152	388	150	434	125	573	146	407	48	430	23	15		
WIST3014	1,660	28	81	27	148	56	202	65	214	55	241	47	194	51	132	12	96	8	2	1	
WIST3016	3,655	64	193	75	351	97	405	120	459	123	488	113	456	95	262	21	308	15	6	4	
WIST3017	2,585	15	77	24	116	34	211	54	281	48	364	77	422	79	330	19	404	27		3	
WIST3018	592	11	31	18	50	27	59	42	78	24	79	23	67	11	31	3	36	2			
WIST3019	35	1	3	1	1			1	3	2		4	7	1	4	2	4	1			
WIST4002	987	6	34	17	71	9	100	22	135	27	143	23	164	22	92	5	109	5	2		1
WIST4003	3,858	30	175	42	278	84	388	112	501	92	566	103	554	87	392	38	396	17	2	1	
WIST4004	2,999	14	132	34	239	41	335	71	371	78	470	55	425	73	291	21	334	14	1		
WIST4006	6,877	43	254	58	425	110	590	146	799	137	1,011	178	1,056	192	828	64	914	66	6		
WIST4009	2,064	11	96	32	148	26	212	42	275	46	284	52	307	56	218	17	230	10	2		
WIST4011	5,472	19	175	41	319	71	435	87	633	99	757	105	895	119	765	51	863	31	6	1	
WIST4014	923	9	59	19	95	23	97	21	113	16	116	26	133	15	80	2	95	3	1		
WIST4017	3,693	29	139	35	253	54	317	76	473	83	581	74	587	81	410	32	433	29	5	2	
WIST4019	1,607	21	93	34	164	55	209	56	210	37	227	41	206	45	96	8	100	5			
WIST4024	3,234	24	135	27	216	53	292	63	424	66	492	70	513	74	377	22	368	14	4		
WIST4026	1,805	16	46	16	81	19	127	39	177	48	247	45	297	57	259	21	295	10	5		
WIST4031	2,974	56	188	72	287	111	345	117	371	92	412	94	310	81	201	10	213	12	1	1	
WIST4032	5,091	127	389	182	533	290	571	254	581	197	540	191	513	157	271	36	241	11	5	2	
WIST4036	2,456	13	68	14	108	29	154	39	268	60	322	56	406	80	338	16	474	7	3	1	
WIST4039	1,564	18	62	12	121	20	143	23	178	26	230	36	276	41	150	7	212	7	1	1	
WIST4040	2,079	16	87	29	130	39	189	54	256	42	309	42	268	60	248	22	271	15	1	1	
WIST4041	279	2	17	4	24	9	30	13	32	9	34	9	37	5	28	3	23				
WIST4042	3,495	52	188	94	308	136	403	143	479	133	477	126	401	100	245	27	168	11	4		
WIST4043	7,494	128	458	167	650	278	859	353	986	279	980	261	901	236	482	45	402	19	7	3	
WIST4044	4,339	87	205	110	325	178	430	167	509	169	513	159	535	109	390	40	394	16	2	1	
WIST4045	2,080	27	90	39	171	49	215	61	257	39	311	42	300	57	167	12	230	10	2	1	
WIST4046	2,160	23	132	45	175	56	199	93	284	76	263	65	268	52	206	11	202	10			
WIST4047	1,135	20	62	38	109	78	105	61	132	55	106	47	114	36	73	7	86	6			
WIST4048	759	11	31	10	42	17	67	17	81	16	106	20	112	19	92	10	99	8	1		
WIST4049	489	5	20	3	44	7	49	14	61	11	59	23	76	5	49	10	51	2			
WIST4050	112	1	1	2	3	4	1	1	7	9	9	7	9	12	7	7	22	10			

40 CFR Part 51.366 (a)(3)
Initial Test Volume by Model Year and Test Station

WIST4051	178	3	4	3	15	8	18	11	17	12	15	9	20	10	9	10	9	5			
WIST5001	3,182	32	158	27	217	50	299	64	378	62	469	52	520	53	352	9	430	5	4		1
WIST5003	2,580	44	118	59	172	109	224	96	261	107	340	100	352	103	192	34	254	4	9	1	1
WIST5004	2,794	14	90	29	200	35	236	74	382	73	421	61	441	60	317	18	332	8	2	1	
WIST5005	2,079	24	130	30	219	47	254	67	272	52	308	46	256	37	172	15	145	4	1		
WIST5007	1,014	9	59	14	74	27	96	25	132	27	141	27	152	22	98	9	91	9	2		
WIST5008	7,912	77	401	110	628	163	862	208	1,082	181	1,223	190	1,140	176	693	45	696	33	4		
WIST5009	1,342	3	26	12	56	19	96	17	132	32	194	37	261	41	176	15	210	13	2		
WIST5011	3,026	10	85	21	141	31	186	47	354	64	497	54	532	74	389	28	480	28	4	1	
WIST5012	3,077	15	131	20	235	39	320	65	415	66	467	66	465	71	343	20	329	7	2		1
WIST5014	7,383	56	277	79	479	129	626	165	834	193	1,013	163	1,115	238	860	61	1,040	46	7	2	
WIST5015	2,876	44	177	81	303	98	357	136	359	95	342	85	311	74	192	12	199	9	1	1	
WIST5017	1,676	10	102	22	148	34	192	54	208	37	242	29	228	38	153	8	164	6	1		
WIST5021	1,178	14	47	19	95	26	130	27	140	25	174	29	192	24	105	7	115	6	1	2	
WIST5022	3,959	66	273	136	424	186	453	193	485	141	444	112	461	92	258	24	208	3			
WIST5023	711	6	24	15	43	22	52	28	83	28	119	30	95	15	68	8	71	4			
WIST5026	23				2	1	1		2	2	7		2	4	2						
WIST5028	2,459	22	118	28	210	68	287	82	318	67	328	70	295	65	207	14	262	9	6	2	1
WIST5029	6,158	44	207	95	370	127	493	146	654	168	775	177	953	206	747	56	883	39	13	4	1
WIST5036	1,114	22	65	41	118	38	122	45	161	39	134	37	123	29	82	8	43	5	2		
WIST5037	1,597	12	65	17	126	25	154	24	212	32	256	46	233	38	154	15	180	6	1		1
WIST5040	1,147	15	71	17	121	15	119	32	116	39	156	24	166	27	104	8	107	6	4		
WIST5041	1,280	5	44	7	85	16	99	23	166	25	199	23	210	25	172	8	160	11	1	1	
WIST5043	423	6	18	5	44	6	39	7	55	7	64	21	57	7	48	8	28	1	1		1
WIST5044	729	4	15	4	34	11	45	11	70	13	100	15	103	24	120	15	127	11	2	5	
WIST5045	1,155	11	50	12	95	27	113	25	166	30	155	16	165	23	121	4	142				
WIST5047	755	5	39	10	42	15	66	18	107	19	113	27	115	22	88	8	56	5			
WIST5049	3,029	19	113	34	230	50	271	54	445	74	459	70	452	79	303	24	335	15	2		
WIST5050	299	6	11	6	16	10	25	12	28	9	34	5	41	12	23	2	57	1		1	
WIST5052	1,116	12	70	16	88	25	110	29	133	22	161	17	154	30	102	6	135	5	1		
WIST5053	1,031	8	86	22	117	24	131	22	122	31	152	23	140	21	58	6	66	2			
WIST5055	4,830	43	237	75	399	114	481	158	611	121	680	164	684	151	452	46	390	20	4		
WIST5056	899	7	41	17	87	39	104	35	123	52	112	38	102	26	62	9	37	7	1		
WIST5058	1,737	27	95	44	152	50	150	54	192	74	222	62	242	51	155	8	148	9	1	1	
WIST5061	2,182	17	105	43	197	56	242	58	293	56	335	53	299	48	186	13	170	8	1	2	
WIST5066	3,675	45	200	65	350	111	428	106	501	102	498	93	462	82	285	31	303	11	2		
WIST5067	1,537	14	56	22	117	22	133	35	175	32	222	39	239	36	179	8	207		1		
WIST5068	2,097	12	63	20	105	26	172	41	236	49	315	51	369	45	251	19	314	5	2	1	1
WIST5069	4,184	98	266	128	381	248	434	222	482	196	445	162	465	164	247	34	199	10	3		
WIST5070	1,672	21	77	36	125	52	156	47	189	52	218	64	234	56	177	9	149	8		1	1
WIST5071	3,465	44	142	41	274	77	343	107	405	95	464	86	530	88	355	11	380	15	6	2	
WIST5072	452	11	34	13	45	9	55	21	45	18	43	18	50	6	42	4	34	3	1		
WIST5073	56		1	1	1	2	6		8	3	6	4	5	3	7	1	3	4		1	
WIST6001	7,224	91	527	161	766	229	879	226	881	208	918	158	853	153	559	41	539	28	6	1	
WIST6004	5,264	43	174	38	360	77	511	112	675	112	767	120	865	122	577	33	641	33	3	1	
WIST6007	1,367	13	84	32	112	37	138	33	182	31	217	20	199	37	103	9	118	2			
WIST6012	1,401	15	75	18	100	30	134	33	164	40	184	33	203	39	163	13	152	4	1		
WIST6013	1,735	9	75	8	121	36	169	29	212	28	233	40	300	45	203	20	194	12	1		
WIST6014	1,344	15	65	20	125	30	161	40	197	35	184	44	163	35	124	3	99	2	1	1	
WIST6016	2,841	27	161	42	235	75	269	77	351	74	410	59	391	76	274	17	282	18	3		
WIST6018	3,999	41	265	82	378	124	437	135	519	132	522	87	477	111	344	29	296	13	7		
WIST6021	1,608	15	51	21	97	29	156	46	210	26	240	34	264	45	160	12	197	5			
WIST6022	3,337	19	110	25	199	48	300	61	388	84	499	72	551	81	454	23	402	15	4	2	
WIST6026	174	1	6	1	10	5	10	5	13	6	23	8	14	11	21	5	28	4	3		
WIST6027	1,796	14	59	16	103	34	115	44	173	50	245	56	268	63	217	16	291	29	1		2
WIST6028	250	5	19	9	15	12	28	9	32	8	27	12	23	6	24	3	15	2		1	
WIST6029	590	7	20	8	37	9	42	16	72	14	83	18	88	22	63	7	74	9		1	
WIST6030	124	1	1	2	5	7	10	9	10	6	13	3	14	10	7	8	14	4			

40 CFR Part 51.366 (a)(3)
Initial Test Volume by Model Year and Test Station

WIST7003	6,059	61	305	106	520	184	593	202	685	173	757	172	867	170	574	46	609	28	6		1
WIST7004	3,889	52	241	78	334	113	432	121	506	103	456	108	509	83	331	31	366	19	4	2	
WIST7006	1,032	4	31	21	56	20	83	26	103	26	150	31	163	32	113	14	145	13		1	
WIST7007	1,302	6	63	14	90	26	129	35	148	23	211	28	176	37	157	6	148	4	1		
WIST7009	3,379	29	130	59	241	87	284	97	397	116	433	112	550	99	327	35	357	19	6	1	
WIST7011	3,000	38	171	65	257	102	353	106	350	95	418	85	359	67	264	21	236	11	2		
WIST7012	478	6	26	5	50	8	54	12	51	9	70	6	73	13	46	3	45	1			
WIST7014	6,028	46	279	98	474	111	581	146	748	169	891	172	851	159	563	34	668	27	8	3	
WIST7015	2,231	18	67	24	145	32	199	57	265	58	332	61	365	61	246	22	261	16	2		
WIST7016	7,353	36	229	56	415	114	570	144	895	182	1,107	184	1,221	219	877	74	979	41	9	1	
WIST7017	4,928	46	221	80	391	100	489	143	610	105	694	135	750	140	481	49	462	24	4	3	1
WIST7018	1,319	8	39	15	77	17	111	27	162	22	170	32	205	43	171	11	183	20	5		1
WIST7019	969	9	44	10	109	20	98	30	128	25	137	28	122	23	86	5	87	6	2		
WIST7020	851	6	50	13	72	20	102	32	89	18	133	21	114	16	70	3	88	3		1	
WIST7021	1,373	21	90	32	139	30	154	48	165	45	187	36	195	33	87	11	96	3	1		
WIST7022	3,122	17	113	23	179	41	256	58	384	55	440	65	543	77	372	25	458	14	1		1
WIST7023	3,027	41	195	56	313	103	312	110	391	92	396	109	385	77	233	15	189	8	1	1	
WIST7024	1,535	32	61	40	147	48	152	61	169	45	229	49	192	38	130	8	123	9	2		
WIST7025	1,586	14	59	13	122	27	156	50	213	37	218	35	250	45	148	11	179	8	1		
WIST7026	1,189	27	80	46	106	58	136	71	140	49	152	44	109	42	65	9	53	1	1		
WIST7027	4,601	130	313	174	503	305	499	248	515	221	468	216	436	139	229	32	164	5	3	1	
WIST7030	5,109	62	264	88	418	156	514	144	644	160	744	125	660	136	470	37	467	15	1	4	
WIST7031	1,411	7	35	8	79	12	105	24	143	39	194	38	278	40	183	14	204	5	3		
WIST7032	2,334	44	156	79	259	120	251	120	259	91	260	72	265	52	161	20	119	6			
WIST7033	4,434	77	303	113	468	172	554	176	545	149	539	122	492	96	310	14	284	19	1		
WIST7034	1,868	27	94	30	154	31	178	38	255	39	283	44	293	46	172	9	172	2	1		
WIST7036	5,641	85	367	138	590	207	634	200	731	199	683	163	629	125	402	40	422	19	5	2	
WIST7037	411	1	22	4	30	5	52	7	59	4	72	5	55	9	46	2	37		1		
WIST7038	514	4	37	7	40	14	59	16	76	20	70	12	60	9	44	4	39	2	1		
WIST7039	1,734	12	54	21	147	21	163	41	205	35	246	32	264	43	208	10	217	11	3		1
WIST7040	3,301	19	115	31	212	54	304	53	415	71	518	90	518	80	378	28	391	19	2	1	2
WIST7041	3,838	33	152	39	282	60	343	92	510	81	559	86	627	111	416	21	401	18	4	3	
WIST7042	6,801	46	242	65	487	121	623	171	886	170	1,016	156	1,053	172	751	56	745	33	8		
WIST7043	2,383	18	107	24	170	29	214	40	290	43	372	47	370	58	268	11	312	9	1		
WIST7044	4,395	31	215	50	314	77	413	97	547	98	636	109	662	101	487	29	496	30	2	1	
WIST7045	3,356	41	118	39	202	58	285	74	375	90	478	98	519	100	376	26	449	24	1	2	1
WIST7046	2,569	53	213	88	266	149	306	115	300	102	280	87	261	69	154	11	110	4	1		
WIST7049	3,744	33	114	42	255	58	276	65	446	80	559	108	588	109	442	29	511	26		2	1
WIST7052	7,084	61	244	59	434	130	585	147	852	171	1,045	171	1,191	193	782	50	915	34	15	3	2
WIST7053	1,863	25	105	32	163	36	208	58	247	56	246	30	249	36	183	10	167	11	1		
WIST7054	1,590	12	78	17	146	26	158	22	220	41	255	26	209	48	142	10	173	5	2		
WIST7055	4,640	51	286	76	414	133	504	119	633	120	640	109	585	96	419	13	418	20	3	1	
WIST7056	4,089	35	187	54	298	108	409	98	534	124	618	93	565	117	390	32	399	19	7	1	1
WIST7057	2,402	35	85	47	126	45	204	52	278	63	321	84	336	68	291	15	335	9	5	2	1
WIST7060	2,448	28	167	35	226	47	271	76	282	53	355	60	310	53	216	9	259		1		
WIST7061	1,377	11	59	31	122	26	150	38	166	37	178	29	206	43	131	13	127	10			
WIST7062	4,102	28	179	37	301	85	424	102	502	110	660	112	588	97	399	26	421	30	1		
WIST7065	4,439	66	265	83	441	115	529	152	602	143	637	119	519	102	322	25	300	16	3		
WIST7066	1,733	10	73	14	113	31	165	32	228	36	260	35	250	41	197	5	239	1	1		2
WIST7067	1,643	11	81	16	133	19	162	31	202	35	222	53	263	41	170	12	182	8	1	1	
WIST7068	2,857	15	91	30	167	46	228	66	318	57	439	68	482	86	322	27	403	8	2	1	1
WIST7069	7,950	68	291	92	494	129	667	191	927	210	1,158	209	1,240	222	930	61	995	48	14	2	2
WIST7070	2,335	13	77	26	124	32	216	48	305	44	353	43	379	58	273	17	306	17	4		
WIST7071	3,140	30	150	40	237	60	326	74	403	74	440	93	439	68	327	19	339	15	4	1	1
WIST7072	3,318	22	122	34	244	58	317	72	406	68	483	81	529	89	369	20	380	23	1		
WIST7073	3,572	53	168	67	297	118	354	102	443	102	494	98	477	107	325	27	329	7	2	2	
WIST7074	9,671	228	804	309	1,156	461	1,312	547	1,354	418	1,064	319	825	250	369	31	214	9	1		
WIST7075	3,198	29	167	36	240	59	361	81	414	75	486	69	444	56	331	18	313	14	3	2	

40 CFR Part 51.366 (a)(3)
Initial Test Volume by Model Year and Test Station

WIST7076	6,310	44	225	76	441	92	587	151	768	136	903	146	1,011	140	720	49	782	30	6	3	
WIST7078	4,179	21	164	51	286	76	376	92	549	102	563	101	611	99	453	38	571	19	6		1
WIST7079	2,101	36	128	49	213	98	244	98	246	79	272	68	243	68	118	12	118	7	4		
WIST7080	4,527	38	188	54	323	83	404	108	563	118	655	121	641	136	470	29	571	25			
WIST7081	5,521	66	301	135	472	172	634	172	684	143	696	151	722	166	497	54	425	23	7	1	
WIST7083	8,795	59	350	92	626	169	856	183	1,023	254	1,276	232	1,370	261	892	62	1,009	75	5	1	
WIST7084	1,116	10	32	5	56	9	96	16	132	15	175	21	190	29	141	4	184			1	
WIST7086	1,151	9	24	5	45	19	88	23	106	30	173	29	196	41	140	15	195	11	2		
WIST7087	2,981	53	202	76	288	104	376	109	392	91	382	74	333	62	234	7	193	2	3		
WIST7088	1,734	18	86	36	149	42	184	59	221	55	234	40	239	53	155	8	148	6			1
WIST7090	1,519	7	72	19	112	41	140	32	185	31	229	43	226	37	173	10	152	9		1	
WIST7091	832	10	34	9	59	26	60	26	92	23	118	36	132	29	83	8	83	3	1		
WIST7092	1,697	6	58	13	94	26	186	35	228	30	240	29	252	51	205	9	227	7	1		
WIST7093	3,214	25	143	37	192	60	327	63	354	70	460	94	514	87	365	26	372	23	2		
WIST7094	4,085	24	148	34	268	51	348	75	521	79	631	78	620	111	474	28	568	24	3		
WIST7095	1,749	8	53	15	133	25	178	33	229	34	246	25	279	38	227	17	198	10	1		
WIST7098	4,127	23	151	38	277	70	411	82	501	97	590	128	673	129	463	36	435	19	4		
WIST7103	4,044	40	204	57	315	78	434	76	496	94	583	88	623	84	406	25	420	19	2		
WIST7104	2,508	34	141	52	174	90	261	101	289	82	285	108	326	91	215	30	212	11	4	2	
WIST7106	4,753	28	110	23	185	39	297	70	483	93	643	110	850	151	820	72	736	31	9	3	
WIST7108	7,251	81	440	112	695	139	827	172	892	170	1,021	156	1,020	176	612	31	674	26	4	3	
WIST7109	5,089	53	246	75	411	122	505	132	631	145	728	134	757	144	476	35	446	42	4	2	1
WIST7111	5,518	97	384	183	516	278	603	264	753	228	637	181	578	159	328	35	275	14	3	2	
WIST7112	3,749	48	182	79	275	102	361	134	431	115	505	105	554	118	356	23	333	16	11	1	
WIST7113	2,941	35	133	33	190	58	266	83	357	80	432	82	462	74	282	29	333	11		1	
WIST7114	1,267	16	81	19	137	31	143	36	169	34	183	26	172	16	94	6	101	2	1		
WIST7115	192	1	9	4	10	5	15	6	18	6	24	3	38	3	21	2	25	2			
WIST7116	3,381	16	82	31	173	40	263	64	391	72	517	78	544	103	405	29	541	27	3	2	
WIST7117	4,288	53	224	79	326	109	406	138	523	135	601	112	620	108	405	22	404	17	4	2	
WIST7118	1,525	17	84	19	130	46	147	37	203	37	225	39	210	17	148	13	145	8			
WIST7119	1,775	12	41	14	99	25	131	30	211	30	247	34	287	34	243	12	314	9	2		
WIST7120	764	16	48	15	81	33	86	28	95	29	84	32	81	23	60	7	42	3		1	
WIST7121	942	4	16	6	36	23	55	23	75	29	97	35	144	39	134	13	178	33	1	1	
WIST7122	10		1					2	1		1	2		1	1		1				
WIST8001	1,384	10	56	15	92	24	115	25	160	38	189	30	207	46	153	14	201	8		1	
WIST8002	5,465	27	181	45	331	79	441	120	673	96	783	105	905	154	657	51	764	40	10	3	
WIST8003	91	22	3	4	8	2	2	5	1	8		9	3	1		11	1	11			
WIST8004	6,999	161	586	275	915	405	968	391	902	280	703	257	517	178	250	21	171	11	7	1	
WIST8005	3,423	26	136	71	234	81	325	107	389	115	447	120	522	116	331	26	361	11	2	3	
WIST8006	9,792	57	289	98	541	203	775	208	1,158	269	1,378	267	1,571	296	1,161	100	1,343	56	17	5	
WIST8007	2,702	25	100	44	159	54	245	56	307	71	415	80	394	73	317	15	331	15	1		
WIST8008	1,466	25	94	35	150	53	170	59	177	69	162	51	187	33	107	12	75	4		2	1
WIST8009	149	1	6	2	9	4	9	7	15	6	14	2	19	9	13	3	22	8			
WIST8010	128	4	5		10	3	14	2	10	4	21	5	16	7	11	2	12	2			
WIST8011	235		9	6	13	7	15	12	15	13	27	14	25	18	14	11	27	9			
WISTT001	3,191	20	121	35	222	50	280	56	340	86	457	75	500	112	384	29	397	15	8	1	3
WISTT002	3,301	43	247	91	374	116	392	151	425	124	421	88	340	76	199	11	193	10			
WISTT003	4,218	71	266	96	416	134	462	178	583	145	558	118	476	100	286	34	272	15	4	4	
WISTT005	2,544	28	101	33	198	42	232	64	298	74	334	49	385	68	281	19	316	15	4	3	
WISTT006	3,022	27	160	39	265	71	323	66	412	79	443	77	407	77	261	16	279	15	3	2	
Grand Total	611,851	6,479	28,677	9,731	47,186	15,035	59,760	17,473	74,824	16,945	84,146	16,429	86,672	16,563	59,809	4,508	63,765	3,020	609	178	42

40 CFR Part 51.366 (a)(4)
Initial Test Failure by MY and Station

Station ID	All Initial Tests			1996			1997			1998		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST1002	2083	169	8.1%	38	4	10.5%	173	30	17.3%	53	7	13.2%
WIST1003	1201	32	2.7%	10	1	10.0%	58	2	3.4%	7	1	14.3%
WIST1006	3409	81	2.4%	23		0.0%	91	3	3.3%	22	4	18.2%
WIST1011	908	33	3.6%	5	1	20.0%	28	1	3.6%	11	1	9.1%
WIST1012	714	27	3.8%	3		0.0%	46	2	4.3%	15	1	6.7%
WIST1013	2326	89	3.8%	14		0.0%	63	5	7.9%	23	3	13.0%
WIST1014	3388	197	5.8%	37	7	18.9%	176	19	10.8%	65	5	7.7%
WIST1015	5861	218	3.7%	36	1	2.8%	171	12	7.0%	58	2	3.4%
WIST1016	136	10	7.4%	1		0.0%	1	1	100.0%	4		0.0%
WIST2001	4022	182	4.5%	31	2	6.5%	153	10	6.5%	67	7	10.4%
WIST2003	2462	108	4.4%	10	2	20.0%	105	10	9.5%	23	3	13.0%
WIST2006	257	9	3.5%	2	1	50.0%	13	2	15.4%	2		0.0%
WIST2014	5517	595	10.8%	136	31	22.8%	341	72	21.1%	195	39	20.0%
WIST2015	2563	72	2.8%	20	1	5.0%	56	4	7.1%	32	2	6.3%
WIST2016	3168	285	9.0%	43	10	23.3%	133	20	15.0%	66	17	25.8%
WIST2017	2357	89	3.8%	8	2	25.0%	68	10	14.7%	24	1	4.2%
WIST2018	5024	239	4.8%	41	6	14.6%	187	22	11.8%	59	7	11.9%
WIST2019	965	56	5.8%	7	2	28.6%	50	2	4.0%	17	1	5.9%
WIST2020	5133	217	4.2%	46	2	4.3%	152	11	7.2%	43	2	4.7%
WIST2021	22	0	0.0%		0	#DIV/0!		0	#DIV/0!		0	#DIV/0!
WIST3003	1194	63	5.3%	14	3	21.4%	58	8	13.8%	21	2	9.5%
WIST3004	2596	105	4.0%	16	1	6.3%	89	5	5.6%	25	3	12.0%
WIST3005	3704	136	3.7%	32	6	18.8%	143	10	7.0%	30	4	13.3%
WIST3006	1498	75	5.0%	18	1	5.6%	86	5	5.8%	21	2	9.5%
WIST3007	1548	56	3.6%	14	2	14.3%	42	4	9.5%	7	1	14.3%
WIST3013	3831	261	6.8%	48	9	18.8%	151	23	15.2%	78	12	15.4%
WIST3014	1660	111	6.7%	28	2	7.1%	81	14	17.3%	27	3	11.1%
WIST3016	3655	297	8.1%	64	11	17.2%	193	28	14.5%	75	17	22.7%
WIST3017	2585	148	5.7%	15	3	20.0%	77	11	14.3%	24	2	8.3%
WIST3018	592	65	11.0%	11	4	36.4%	31	1	3.2%	18	7	38.9%
WIST3019	35	2	5.7%	1	1	100.0%	3		0.0%	1		0.0%
WIST4002	987	45	4.6%	6	1	16.7%	34	6	17.6%	17	1	5.9%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			1996			1997			1998		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST4003	3858	188	4.9%	30	4	13.3%	175	11	6.3%	42	4	9.5%
WIST4004	2999	128	4.3%	14	4	28.6%	132	10	7.6%	34	4	11.8%
WIST4006	6877	225	3.3%	43	1	2.3%	254	19	7.5%	58	5	8.6%
WIST4009	2064	82	4.0%	11		0.0%	96	6	6.3%	32	6	18.8%
WIST4011	5472	212	3.9%	19	1	5.3%	175	16	9.1%	41	4	9.8%
WIST4014	923	42	4.6%	9		0.0%	59	5	8.5%	19	4	21.1%
WIST4017	3693	153	4.1%	29	1	3.4%	139	11	7.9%	35	4	11.4%
WIST4019	1607	78	4.9%	21	1	4.8%	93	6	6.5%	34	8	23.5%
WIST4024	3234	84	2.6%	24	3	12.5%	135	3	2.2%	27	3	11.1%
WIST4026	1805	61	3.4%	16	1	6.3%	46	4	8.7%	16	2	12.5%
WIST4031	2974	186	6.3%	56	8	14.3%	188	14	7.4%	72	8	11.1%
WIST4032	5091	713	14.0%	127	34	26.8%	389	93	23.9%	182	47	25.8%
WIST4036	2456	61	2.5%	13	2	15.4%	68	7	10.3%	14		0.0%
WIST4039	1564	57	3.6%	18	2	11.1%	62	4	6.5%	12	2	16.7%
WIST4040	2079	55	2.6%	16	2	12.5%	87	5	5.7%	29	1	3.4%
WIST4041	279	22	7.9%	2		0.0%	17	4	23.5%	4		0.0%
WIST4042	3495	278	8.0%	52	4	7.7%	188	29	15.4%	94	20	21.3%
WIST4043	7494	480	6.4%	128	21	16.4%	458	56	12.2%	167	24	14.4%
WIST4044	4339	405	9.3%	87	18	20.7%	205	31	15.1%	110	18	16.4%
WIST4045	2080	100	4.8%	27	3	11.1%	90	7	7.8%	39	5	12.8%
WIST4046	2160	119	5.5%	23	3	13.0%	132	18	13.6%	45	4	8.9%
WIST4047	1135	132	11.6%	20	4	20.0%	62	14	22.6%	38	11	28.9%
WIST4048	759	43	5.7%	11	2	18.2%	31	2	6.5%	10	1	10.0%
WIST4049	489	19	3.9%	5		0.0%	20	1	5.0%	3		0.0%
WIST4050	112	6	5.4%	1		0.0%	1		0.0%	2	1	50.0%
WIST4051	178	14	7.9%	3		0.0%	4		0.0%	3		0.0%
WIST5001	3182	149	4.7%	32	2	6.3%	158	18	11.4%	27	4	14.8%
WIST5003	2580	171	6.6%	44	3	6.8%	118	14	11.9%	59	12	20.3%
WIST5004	2794	135	4.8%	14	2	14.3%	90	7	7.8%	29	5	17.2%
WIST5005	2079	107	5.1%	24	2	8.3%	130	10	7.7%	30	4	13.3%
WIST5007	1014	41	4.0%	9		0.0%	59	6	10.2%	14	1	7.1%
WIST5008	7912	381	4.8%	77	9	11.7%	401	39	9.7%	110	17	15.5%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			1996			1997			1998		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST5009	1342	50	3.7%	3	1	33.3%	26		0.0%	12	2	16.7%
WIST5011	3026	91	3.0%	10		0.0%	85	5	5.9%	21	1	4.8%
WIST5012	3077	123	4.0%	15	1	6.7%	131	9	6.9%	20		0.0%
WIST5014	7383	336	4.6%	56	10	17.9%	277	38	13.7%	79	8	10.1%
WIST5015	2876	280	9.7%	44	12	27.3%	177	26	14.7%	81	15	18.5%
WIST5017	1676	79	4.7%	10		0.0%	102	11	10.8%	22	2	9.1%
WIST5021	1178	59	5.0%	14		0.0%	47	7	14.9%	19	1	5.3%
WIST5022	3959	482	12.2%	66	15	22.7%	273	56	20.5%	136	23	16.9%
WIST5023	711	35	4.9%	6		0.0%	24	3	12.5%	15	1	6.7%
WIST5026	23	2	8.7%			#DIV/0!			#DIV/0!			#DIV/0!
WIST5028	2459	108	4.4%	22		0.0%	118	8	6.8%	28	4	14.3%
WIST5029	6158	252	4.1%	44	9	20.5%	207	22	10.6%	95	10	10.5%
WIST5036	1114	106	9.5%	22	4	18.2%	65	8	12.3%	41	8	19.5%
WIST5037	1597	51	3.2%	12	3	25.0%	65	3	4.6%	17	2	11.8%
WIST5040	1147	58	5.1%	15		0.0%	71	2	2.8%	17	2	11.8%
WIST5041	1280	35	2.7%	5		0.0%	44		0.0%	7		0.0%
WIST5043	423	23	5.4%	6	1	16.7%	18		0.0%	5		0.0%
WIST5044	729	22	3.0%	4		0.0%	15	1	6.7%	4		0.0%
WIST5045	1155	51	4.4%	11		0.0%	50	1	2.0%	12	2	16.7%
WIST5047	755	35	4.6%	5	1	20.0%	39	3	7.7%	10	1	10.0%
WIST5049	3029	108	3.6%	19		0.0%	113	2	1.8%	34	3	8.8%
WIST5050	299	14	4.7%	6		0.0%	11	2	18.2%	6		0.0%
WIST5052	1116	62	5.6%	12		0.0%	70	4	5.7%	16	2	12.5%
WIST5053	1031	26	2.5%	8	1	12.5%	86	7	8.1%	22	3	13.6%
WIST5055	4830	313	6.5%	43	6	14.0%	237	21	8.9%	75	16	21.3%
WIST5056	899	61	6.8%	7		0.0%	41	3	7.3%	17	5	29.4%
WIST5058	1737	112	6.4%	27	5	18.5%	95	7	7.4%	44	8	18.2%
WIST5061	2182	95	4.4%	17	1	5.9%	105	8	7.6%	43	3	7.0%
WIST5066	3675	228	6.2%	45	8	17.8%	200	23	11.5%	65	3	4.6%
WIST5067	1537	45	2.9%	14	2	14.3%	56	3	5.4%	22	2	9.1%
WIST5068	2097	90	4.3%	12	1	8.3%	63	9	14.3%	20	2	10.0%
WIST5069	4184	545	13.0%	98	21	21.4%	266	59	22.2%	128	34	26.6%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			1996			1997			1998		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST5070	1672	132	7.9%	21	4	19.0%	77	10	13.0%	36	7	19.4%
WIST5071	3465	236	6.8%	44	7	15.9%	142	16	11.3%	41	7	17.1%
WIST5072	452	28	6.2%	11	1	9.1%	34	8	23.5%	13	6	46.2%
WIST5073	56	7	12.5%			#DIV/0!	1		0.0%	1		0.0%
WIST6001	7224	575	8.0%	91	19	20.9%	527	72	13.7%	161	21	13.0%
WIST6004	5264	192	3.6%	43	6	14.0%	174	17	9.8%	38	5	13.2%
WIST6007	1367	41	3.0%	13	1	7.7%	84	4	4.8%	32	3	9.4%
WIST6012	1401	98	7.0%	15	4	26.7%	75	10	13.3%	18		0.0%
WIST6013	1735	76	4.4%	9	1	11.1%	75	6	8.0%	8	2	25.0%
WIST6014	1344	74	5.5%	15	2	13.3%	65	10	15.4%	20	2	10.0%
WIST6016	2841	142	5.0%	27	3	11.1%	161	22	13.7%	42	6	14.3%
WIST6018	3999	281	7.0%	41	5	12.2%	265	29	10.9%	82	10	12.2%
WIST6021	1608	59	3.7%	15	2	13.3%	51	6	11.8%	21		0.0%
WIST6022	3337	81	2.4%	19	1	5.3%	110	2	1.8%	25	1	4.0%
WIST6026	174	7	4.0%	1		0.0%	6		0.0%	1		0.0%
WIST6027	1796	103	5.7%	14	1	7.1%	59	3	5.1%	16	1	6.3%
WIST6028	250	23	9.2%	5		0.0%	19	3	15.8%	9	4	44.4%
WIST6029	590	39	6.6%	7		0.0%	20	4	20.0%	8		0.0%
WIST6030	124	7	5.6%	1		0.0%	1		0.0%	2		0.0%
WIST7003	6059	384	6.3%	61	7	11.5%	305	36	11.8%	106	13	12.3%
WIST7004	3889	299	7.7%	52	6	11.5%	241	32	13.3%	78	12	15.4%
WIST7006	1032	34	3.3%	4		0.0%	31	2	6.5%	21	1	4.8%
WIST7007	1302	58	4.5%	6		0.0%	63	5	7.9%	14	1	7.1%
WIST7009	3379	163	4.8%	29	3	10.3%	130	18	13.8%	59	11	18.6%
WIST7011	3000	208	6.9%	38	3	7.9%	171	23	13.5%	65	6	9.2%
WIST7012	478	23	4.8%	6		0.0%	26	3	11.5%	5	1	20.0%
WIST7014	6028	275	4.6%	46	3	6.5%	279	25	9.0%	98	8	8.2%
WIST7015	2231	70	3.1%	18	2	11.1%	67	2	3.0%	24	2	8.3%
WIST7016	7353	343	4.7%	36	4	11.1%	229	24	10.5%	56	5	8.9%
WIST7017	4928	296	6.0%	46	8	17.4%	221	26	11.8%	80	13	16.3%
WIST7018	1319	25	1.9%	8	1	12.5%	39		0.0%	15	1	6.7%
WIST7019	969	47	4.9%	9	1	11.1%	44	3	6.8%	10	1	10.0%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			1996			1997			1998		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7020	851	52	6.1%	6	1	16.7%	50	5	10.0%	13		0.0%
WIST7021	1373	93	6.8%	21	2	9.5%	90	13	14.4%	32	2	6.3%
WIST7022	3122	92	2.9%	17		0.0%	113	7	6.2%	23	1	4.3%
WIST7023	3027	187	6.2%	41	7	17.1%	195	21	10.8%	56	8	14.3%
WIST7024	1535	124	8.1%	32	6	18.8%	61	11	18.0%	40	7	17.5%
WIST7025	1586	78	4.9%	14		0.0%	59	4	6.8%	13	1	7.7%
WIST7026	1189	139	11.7%	27	5	18.5%	80	10	12.5%	46	8	17.4%
WIST7027	4601	517	11.2%	130	25	19.2%	313	66	21.1%	174	32	18.4%
WIST7030	5109	335	6.6%	62	7	11.3%	264	39	14.8%	88	10	11.4%
WIST7031	1411	60	4.3%	7	2	28.6%	35	3	8.6%	8		0.0%
WIST7032	2334	256	11.0%	44	6	13.6%	156	32	20.5%	79	13	16.5%
WIST7033	4434	344	7.8%	77	16	20.8%	303	33	10.9%	113	15	13.3%
WIST7034	1868	104	5.6%	27	8	29.6%	94	12	12.8%	30	4	13.3%
WIST7036	5641	452	8.0%	85	14	16.5%	367	57	15.5%	138	24	17.4%
WIST7037	411	27	6.6%	1		0.0%	22	3	13.6%	4	1	25.0%
WIST7038	514	45	8.8%	4		0.0%	37	4	10.8%	7	4	57.1%
WIST7039	1734	75	4.3%	12		0.0%	54	4	7.4%	21	2	9.5%
WIST7040	3301	154	4.7%	19	2	10.5%	115	9	7.8%	31	2	6.5%
WIST7041	3838	180	4.7%	33	3	9.1%	152	16	10.5%	39	2	5.1%
WIST7042	6801	261	3.8%	46	7	15.2%	242	16	6.6%	65	4	6.2%
WIST7043	2383	83	3.5%	18	1	5.6%	107	3	2.8%	24	1	4.2%
WIST7044	4395	166	3.8%	31	2	6.5%	215	17	7.9%	50	4	8.0%
WIST7045	3356	151	4.5%	41	4	9.8%	118	12	10.2%	39	5	12.8%
WIST7046	2569	273	10.6%	53	12	22.6%	213	36	16.9%	88	18	20.5%
WIST7049	3744	125	3.3%	33	4	12.1%	114	14	12.3%	42	4	9.5%
WIST7052	7084	316	4.5%	61	3	4.9%	244	38	15.6%	59	3	5.1%
WIST7053	1863	88	4.7%	25	2	8.0%	105	7	6.7%	32	3	9.4%
WIST7054	1590	38	2.4%	12	1	8.3%	78	4	5.1%	17	2	11.8%
WIST7055	4640	237	5.1%	51	8	15.7%	286	33	11.5%	76	17	22.4%
WIST7056	4089	172	4.2%	35	4	11.4%	187	18	9.6%	54	5	9.3%
WIST7057	2402	93	3.9%	35	4	11.4%	85	7	8.2%	47	5	10.6%
WIST7060	2448	130	5.3%	28	2	7.1%	167	14	8.4%	35	6	17.1%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			1996			1997			1998		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7061	1377	70	5.1%	11		0.0%	59	8	13.6%	31	5	16.1%
WIST7062	4102	167	4.1%	28	3	10.7%	179	14	7.8%	37	3	8.1%
WIST7065	4439	259	5.8%	66	7	10.6%	265	41	15.5%	83	6	7.2%
WIST7066	1733	77	4.4%	10	1	10.0%	73	4	5.5%	14	2	14.3%
WIST7067	1643	74	4.5%	11	1	9.1%	81	6	7.4%	16	3	18.8%
WIST7068	2857	61	2.1%	15	1	6.7%	91	3	3.3%	30	2	6.7%
WIST7069	7950	367	4.6%	68	4	5.9%	291	28	9.6%	92	14	15.2%
WIST7070	2335	87	3.7%	13	1	7.7%	77	7	9.1%	26	2	7.7%
WIST7071	3140	131	4.2%	30	2	6.7%	150	15	10.0%	40	3	7.5%
WIST7072	3318	146	4.4%	22	2	9.1%	122	14	11.5%	34	5	14.7%
WIST7073	3572	261	7.3%	53	7	13.2%	168	30	17.9%	67	13	19.4%
WIST7074	9671	967	10.0%	228	46	20.2%	804	114	14.2%	309	50	16.2%
WIST7075	3198	100	3.1%	29		0.0%	167	10	6.0%	36	4	11.1%
WIST7076	6310	243	3.9%	44	8	18.2%	225	20	8.9%	76	7	9.2%
WIST7078	4179	143	3.4%	21	2	9.5%	164	16	9.8%	51	5	9.8%
WIST7079	2101	234	11.1%	36	13	36.1%	128	29	22.7%	49	9	18.4%
WIST7080	4527	183	4.0%	38	2	5.3%	188	16	8.5%	54	2	3.7%
WIST7081	5521	372	6.7%	66	14	21.2%	301	46	15.3%	135	27	20.0%
WIST7083	8795	344	3.9%	59	6	10.2%	350	21	6.0%	92	7	7.6%
WIST7084	1116	36	3.2%	10	1	10.0%	32	4	12.5%	5		0.0%
WIST7086	1151	36	3.1%	9	4	44.4%	24	1	4.2%	5		0.0%
WIST7087	2981	234	7.8%	53	15	28.3%	202	33	16.3%	76	5	6.6%
WIST7088	1734	118	6.8%	18	2	11.1%	86	18	20.9%	36	6	16.7%
WIST7090	1519	58	3.8%	7	1	14.3%	72	5	6.9%	19	4	21.1%
WIST7091	832	40	4.8%	10	1	10.0%	34	2	5.9%	9	1	11.1%
WIST7092	1697	81	4.8%	6	1	16.7%	58	3	5.2%	13		0.0%
WIST7093	3214	109	3.4%	25	2	8.0%	143	11	7.7%	37	4	10.8%
WIST7094	4085	156	3.8%	24	4	16.7%	148	17	11.5%	34	1	2.9%
WIST7095	1749	46	2.6%	8		0.0%	53	1	1.9%	15	2	13.3%
WIST7098	4127	185	4.5%	23	2	8.7%	151	15	9.9%	38	5	13.2%
WIST7103	4044	173	4.3%	40	5	12.5%	204	8	3.9%	57	7	12.3%
WIST7104	2508	176	7.0%	34	6	17.6%	141	22	15.6%	52	10	19.2%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			1996			1997			1998		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7106	4753	78	1.6%	28		0.0%	110	8	7.3%	23	2	8.7%
WIST7108	7251	396	5.5%	81	8	9.9%	440	40	9.1%	112	14	12.5%
WIST7109	5089	302	5.9%	53	11	20.8%	246	24	9.8%	75	11	14.7%
WIST7111	5518	502	9.1%	97	24	24.7%	384	49	12.8%	183	32	17.5%
WIST7112	3749	259	6.9%	48	10	20.8%	182	16	8.8%	79	11	13.9%
WIST7113	2941	135	4.6%	35		0.0%	133	11	8.3%	33	6	18.2%
WIST7114	1267	72	5.7%	16	1	6.3%	81	6	7.4%	19	3	15.8%
WIST7115	192	2	1.0%	1		0.0%	9		0.0%	4	1	25.0%
WIST7116	3381	105	3.1%	16		0.0%	82	3	3.7%	31	3	9.7%
WIST7117	4288	241	5.6%	53	1	1.9%	224	19	8.5%	79	7	8.9%
WIST7118	1525	96	6.3%	17	1	5.9%	84	12	14.3%	19	1	5.3%
WIST7119	1775	72	4.1%	12		0.0%	41	4	9.8%	14	2	14.3%
WIST7120	764	86	11.3%	16	2	12.5%	48	4	8.3%	15	4	26.7%
WIST7121	942	22	2.3%	4		0.0%	16	2	12.5%	6		0.0%
WIST7122	10	1	10.0%			#DIV/0!	1		0.0%			#DIV/0!
WIST8001	1384	50	3.6%	10		0.0%	56	5	8.9%	15		0.0%
WIST8002	5465	209	3.8%	27	4	14.8%	181	16	8.8%	45	6	13.3%
WIST8003	91	38	41.8%	22	12	54.5%	3	1	33.3%	4	1	25.0%
WIST8004	6999	832	11.9%	161	33	20.5%	586	112	19.1%	275	53	19.3%
WIST8005	3423	247	7.2%	26	2	7.7%	136	22	16.2%	71	14	19.7%
WIST8006	9792	542	5.5%	57	10	17.5%	289	38	13.1%	98	17	17.3%
WIST8007	2702	135	5.0%	25	4	16.0%	100	5	5.0%	44	4	9.1%
WIST8008	1466	157	10.7%	25	7	28.0%	94	13	13.8%	35	10	28.6%
WIST8009	149	4	2.7%	1		0.0%	6		0.0%	2		0.0%
WIST8010	128	8	6.3%	4		0.0%	5		0.0%			#DIV/0!
WIST8011	235	11	4.7%			#DIV/0!	9	2	22.2%	6		0.0%
WISTT001	3191	132	4.1%	20	1	5.0%	121	8	6.6%	35	2	5.7%
WISTT002	3301	339	10.3%	43	10	23.3%	247	35	14.2%	91	11	12.1%
WISTT003	4218	424	10.1%	71	21	29.6%	266	41	15.4%	96	16	16.7%
WISTT005	2544	118	4.6%	28	4	14.3%	101	8	7.9%	33	5	15.2%
WISTT006	3022	133	4.4%	27	1	3.7%	160	17	10.6%	39	4	10.3%
Grand Tota	611851	34331	5.6%	6479	940	14.5%	28677	3266	11.4%	9731	1366	14.0%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			1999			2000			2001		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST1002	2083	169	8.1%	222	20	9.0%	73	6	8.2%	251	36	14.3%
WIST1003	1201	32	2.7%	84	2	2.4%	28	1	3.6%	115	8	7.0%
WIST1006	3409	81	2.4%	167	11	6.6%	29	3	10.3%	249	12	4.8%
WIST1011	908	33	3.6%	78	4	5.1%	19		0.0%	84	7	8.3%
WIST1012	714	27	3.8%	51	1	2.0%	19	3	15.8%	78	6	7.7%
WIST1013	2326	89	3.8%	139	13	9.4%	27	2	7.4%	178	15	8.4%
WIST1014	3388	197	5.8%	287	23	8.0%	87	4	4.6%	368	29	7.9%
WIST1015	5861	218	3.7%	363	26	7.2%	81	6	7.4%	482	46	9.5%
WIST1016	136	10	7.4%	12	2	16.7%	8	1	12.5%	12	1	8.3%
WIST2001	4022	182	4.5%	264	25	9.5%	97	4	4.1%	371	29	7.8%
WIST2003	2462	108	4.4%	164	15	9.1%	61	5	8.2%	190	24	12.6%
WIST2006	257	9	3.5%	18	2	11.1%	8		0.0%	32		0.0%
WIST2014	5517	595	10.8%	537	82	15.3%	307	51	16.6%	620	110	17.7%
WIST2015	2563	72	2.8%	120	5	4.2%	44	4	9.1%	164	12	7.3%
WIST2016	3168	285	9.0%	230	32	13.9%	95	23	24.2%	258	46	17.8%
WIST2017	2357	89	3.8%	97	6	6.2%	23	4	17.4%	150	14	9.3%
WIST2018	5024	239	4.8%	302	20	6.6%	109	5	4.6%	458	46	10.0%
WIST2019	965	56	5.8%	78	9	11.5%	19	2	10.5%	115	13	11.3%
WIST2020	5133	217	4.2%	286	29	10.1%	77	6	7.8%	397	31	7.8%
WIST2021	22	0	0.0%	1	0	0.0%		0	#DIV/0!		0	#DIV/0!
WIST3003	1194	63	5.3%	97	4	4.1%	32		0.0%	136	17	12.5%
WIST3004	2596	105	4.0%	159	9	5.7%	45	4	8.9%	207	17	8.2%
WIST3005	3704	136	3.7%	216	10	4.6%	64	1	1.6%	347	21	6.1%
WIST3006	1498	75	5.0%	144	13	9.0%	35		0.0%	195	20	10.3%
WIST3007	1548	56	3.6%	72	7	9.7%	31	3	9.7%	94	9	9.6%
WIST3013	3831	261	6.8%	257	31	12.1%	105	19	18.1%	301	39	13.0%
WIST3014	1660	111	6.7%	148	16	10.8%	56	5	8.9%	202	16	7.9%
WIST3016	3655	297	8.1%	351	38	10.8%	97	17	17.5%	405	67	16.5%
WIST3017	2585	148	5.7%	116	11	9.5%	34	8	23.5%	211	29	13.7%
WIST3018	592	65	11.0%	50	10	20.0%	27	2	7.4%	59	13	22.0%
WIST3019	35	2	5.7%	1		0.0%			#DIV/0!			#DIV/0!
WIST4002	987	45	4.6%	71	7	9.9%	9	1	11.1%	100	8	8.0%

40 CFR Part 51.366 (a)(4)
Initial Test Failure by MY and Station

Station ID	All Initial Tests			1999			2000			2001		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST4003	3858	188	4.9%	278	22	7.9%	84	3	3.6%	388	43	11.1%
WIST4004	2999	128	4.3%	239	18	7.5%	41	2	4.9%	335	33	9.9%
WIST4006	6877	225	3.3%	425	28	6.6%	110	10	9.1%	590	36	6.1%
WIST4009	2064	82	4.0%	148	10	6.8%	26	2	7.7%	212	14	6.6%
WIST4011	5472	212	3.9%	319	33	10.3%	71	14	19.7%	435	34	7.8%
WIST4014	923	42	4.6%	95	2	2.1%	23	2	8.7%	97	8	8.2%
WIST4017	3693	153	4.1%	253	14	5.5%	54	4	7.4%	317	34	10.7%
WIST4019	1607	78	4.9%	164	17	10.4%	55	2	3.6%	209	9	4.3%
WIST4024	3234	84	2.6%	216	10	4.6%	53	4	7.5%	292	16	5.5%
WIST4026	1805	61	3.4%	81	5	6.2%	19	1	5.3%	127	9	7.1%
WIST4031	2974	186	6.3%	287	31	10.8%	111	12	10.8%	345	34	9.9%
WIST4032	5091	713	14.0%	533	108	20.3%	290	60	20.7%	571	108	18.9%
WIST4036	2456	61	2.5%	108	7	6.5%	29	4	13.8%	154	6	3.9%
WIST4039	1564	57	3.6%	121	10	8.3%	20		0.0%	143	14	9.8%
WIST4040	2079	55	2.6%	130	6	4.6%	39	1	2.6%	189	8	4.2%
WIST4041	279	22	7.9%	24	1	4.2%	9		0.0%	30	3	10.0%
WIST4042	3495	278	8.0%	308	46	14.9%	136	14	10.3%	403	55	13.6%
WIST4043	7494	480	6.4%	650	56	8.6%	278	23	8.3%	859	96	11.2%
WIST4044	4339	405	9.3%	325	56	17.2%	178	26	14.6%	430	67	15.6%
WIST4045	2080	100	4.8%	171	15	8.8%	49	6	12.2%	215	16	7.4%
WIST4046	2160	119	5.5%	175	18	10.3%	56	4	7.1%	199	20	10.1%
WIST4047	1135	132	11.6%	109	17	15.6%	78	12	15.4%	105	20	19.0%
WIST4048	759	43	5.7%	42	4	9.5%	17		0.0%	67	9	13.4%
WIST4049	489	19	3.9%	44	3	6.8%	7		0.0%	49	4	8.2%
WIST4050	112	6	5.4%	3	1	33.3%	4		0.0%	1		0.0%
WIST4051	178	14	7.9%	15	2	13.3%	8		0.0%	18	6	33.3%
WIST5001	3182	149	4.7%	217	18	8.3%	50	10	20.0%	299	33	11.0%
WIST5003	2580	171	6.6%	172	14	8.1%	109	14	12.8%	224	24	10.7%
WIST5004	2794	135	4.8%	200	16	8.0%	35	8	22.9%	236	21	8.9%
WIST5005	2079	107	5.1%	219	19	8.7%	47	2	4.3%	254	25	9.8%
WIST5007	1014	41	4.0%	74	8	10.8%	27	2	7.4%	96	6	6.3%
WIST5008	7912	381	4.8%	628	43	6.8%	163	14	8.6%	862	67	7.8%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			1999			2000			2001		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST5009	1342	50	3.7%	56	5	8.9%	19	2	10.5%	96	10	10.4%
WIST5011	3026	91	3.0%	141	11	7.8%	31	2	6.5%	186	13	7.0%
WIST5012	3077	123	4.0%	235	17	7.2%	39	4	10.3%	320	31	9.7%
WIST5014	7383	336	4.6%	479	42	8.8%	129	18	14.0%	626	53	8.5%
WIST5015	2876	280	9.7%	303	36	11.9%	98	14	14.3%	357	53	14.8%
WIST5017	1676	79	4.7%	148	14	9.5%	34	3	8.8%	192	16	8.3%
WIST5021	1178	59	5.0%	95	7	7.4%	26		0.0%	130	12	9.2%
WIST5022	3959	482	12.2%	424	83	19.6%	186	26	14.0%	453	93	20.5%
WIST5023	711	35	4.9%	43	9	20.9%	22		0.0%	52	6	11.5%
WIST5026	23	2	8.7%	2	1	50.0%	1		0.0%	1		0.0%
WIST5028	2459	108	4.4%	210	16	7.6%	68	7	10.3%	287	21	7.3%
WIST5029	6158	252	4.1%	370	31	8.4%	127	8	6.3%	493	45	9.1%
WIST5036	1114	106	9.5%	118	22	18.6%	38	6	15.8%	122	15	12.3%
WIST5037	1597	51	3.2%	126	7	5.6%	25	2	8.0%	154	9	5.8%
WIST5040	1147	58	5.1%	121	15	12.4%	15	1	6.7%	119	7	5.9%
WIST5041	1280	35	2.7%	85	2	2.4%	16	3	18.8%	99	8	8.1%
WIST5043	423	23	5.4%	44	6	13.6%	6	1	16.7%	39	3	7.7%
WIST5044	729	22	3.0%	34	2	5.9%	11	1	9.1%	45	3	6.7%
WIST5045	1155	51	4.4%	95	4	4.2%	27	2	7.4%	113	15	13.3%
WIST5047	755	35	4.6%	42	5	11.9%	15	3	20.0%	66	7	10.6%
WIST5049	3029	108	3.6%	230	19	8.3%	50	5	10.0%	271	25	9.2%
WIST5050	299	14	4.7%	16	1	6.3%	10	1	10.0%	25	2	8.0%
WIST5052	1116	62	5.6%	88	12	13.6%	25	3	12.0%	110	11	10.0%
WIST5053	1031	26	2.5%	117	2	1.7%	24	1	4.2%	131	3	2.3%
WIST5055	4830	313	6.5%	399	33	8.3%	114	10	8.8%	481	65	13.5%
WIST5056	899	61	6.8%	87	13	14.9%	39	5	12.8%	104	10	9.6%
WIST5058	1737	112	6.4%	152	11	7.2%	50	4	8.0%	150	13	8.7%
WIST5061	2182	95	4.4%	197	14	7.1%	56		0.0%	242	17	7.0%
WIST5066	3675	228	6.2%	350	36	10.3%	111	7	6.3%	428	51	11.9%
WIST5067	1537	45	2.9%	117	5	4.3%	22	1	4.5%	133	5	3.8%
WIST5068	2097	90	4.3%	105	10	9.5%	26	4	15.4%	172	20	11.6%
WIST5069	4184	545	13.0%	381	65	17.1%	248	42	16.9%	434	82	18.9%

40 CFR Part 51.366 (a)(4)
Initial Test Failure by MY and Station

Station ID	All Initial Tests			1999			2000			2001		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST5070	1672	132	7.9%	125	12	9.6%	52	7	13.5%	156	22	14.1%
WIST5071	3465	236	6.8%	274	38	13.9%	77	11	14.3%	343	42	12.2%
WIST5072	452	28	6.2%	45	4	8.9%	9		0.0%	55	2	3.6%
WIST5073	56	7	12.5%	1	1	100.0%	2		0.0%	6	2	33.3%
WIST6001	7224	575	8.0%	766	104	13.6%	229	25	10.9%	879	116	13.2%
WIST6004	5264	192	3.6%	360	21	5.8%	77	6	7.8%	511	34	6.7%
WIST6007	1367	41	3.0%	112	6	5.4%	37	2	5.4%	138	5	3.6%
WIST6012	1401	98	7.0%	100	14	14.0%	30	3	10.0%	134	18	13.4%
WIST6013	1735	76	4.4%	121	13	10.7%	36	5	13.9%	169	17	10.1%
WIST6014	1344	74	5.5%	125	14	11.2%	30	1	3.3%	161	14	8.7%
WIST6016	2841	142	5.0%	235	18	7.7%	75	5	6.7%	269	12	4.5%
WIST6018	3999	281	7.0%	378	45	11.9%	124	11	8.9%	437	53	12.1%
WIST6021	1608	59	3.7%	97	7	7.2%	29	2	6.9%	156	10	6.4%
WIST6022	3337	81	2.4%	199	10	5.0%	48	2	4.2%	300	17	5.7%
WIST6026	174	7	4.0%	10	1	10.0%	5	1	20.0%	10	1	10.0%
WIST6027	1796	103	5.7%	103	20	19.4%	34	5	14.7%	115	11	9.6%
WIST6028	250	23	9.2%	15		0.0%	12	2	16.7%	28	2	7.1%
WIST6029	590	39	6.6%	37	5	13.5%	9		0.0%	42	4	9.5%
WIST6030	124	7	5.6%	5		0.0%	7	1	14.3%	10	2	20.0%
WIST7003	6059	384	6.3%	520	45	8.7%	184	21	11.4%	593	69	11.6%
WIST7004	3889	299	7.7%	334	46	13.8%	113	18	15.9%	432	63	14.6%
WIST7006	1032	34	3.3%	56	1	1.8%	20	4	20.0%	83	6	7.2%
WIST7007	1302	58	4.5%	90	11	12.2%	26	2	7.7%	129	12	9.3%
WIST7009	3379	163	4.8%	241	18	7.5%	87	9	10.3%	284	29	10.2%
WIST7011	3000	208	6.9%	257	28	10.9%	102	14	13.7%	353	36	10.2%
WIST7012	478	23	4.8%	50	6	12.0%	8		0.0%	54	4	7.4%
WIST7014	6028	275	4.6%	474	47	9.9%	111	7	6.3%	581	50	8.6%
WIST7015	2231	70	3.1%	145	6	4.1%	32	2	6.3%	199	15	7.5%
WIST7016	7353	343	4.7%	415	34	8.2%	114	14	12.3%	570	52	9.1%
WIST7017	4928	296	6.0%	391	44	11.3%	100	10	10.0%	489	50	10.2%
WIST7018	1319	25	1.9%	77	3	3.9%	17	1	5.9%	111	5	4.5%
WIST7019	969	47	4.9%	109	9	8.3%	20	2	10.0%	98	9	9.2%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			1999			2000			2001		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7020	851	52	6.1%	72	9	12.5%	20		0.0%	102	11	10.8%
WIST7021	1373	93	6.8%	139	15	10.8%	30	5	16.7%	154	14	9.1%
WIST7022	3122	92	2.9%	179	8	4.5%	41	1	2.4%	256	27	10.5%
WIST7023	3027	187	6.2%	313	35	11.2%	103	13	12.6%	312	33	10.6%
WIST7024	1535	124	8.1%	147	13	8.8%	48	3	6.3%	152	19	12.5%
WIST7025	1586	78	4.9%	122	12	9.8%	27	1	3.7%	156	16	10.3%
WIST7026	1189	139	11.7%	106	18	17.0%	58	11	19.0%	136	31	22.8%
WIST7027	4601	517	11.2%	503	73	14.5%	305	34	11.1%	499	101	20.2%
WIST7030	5109	335	6.6%	418	41	9.8%	156	18	11.5%	514	60	11.7%
WIST7031	1411	60	4.3%	79	7	8.9%	12	2	16.7%	105	14	13.3%
WIST7032	2334	256	11.0%	259	52	20.1%	120	19	15.8%	251	40	15.9%
WIST7033	4434	344	7.8%	468	49	10.5%	172	14	8.1%	554	76	13.7%
WIST7034	1868	104	5.6%	154	16	10.4%	31	5	16.1%	178	10	5.6%
WIST7036	5641	452	8.0%	590	62	10.5%	207	29	14.0%	634	84	13.2%
WIST7037	411	27	6.6%	30	3	10.0%	5		0.0%	52	6	11.5%
WIST7038	514	45	8.8%	40	7	17.5%	14	1	7.1%	59	6	10.2%
WIST7039	1734	75	4.3%	147	9	6.1%	21		0.0%	163	16	9.8%
WIST7040	3301	154	4.7%	212	12	5.7%	54	3	5.6%	304	23	7.6%
WIST7041	3838	180	4.7%	282	19	6.7%	60	9	15.0%	343	42	12.2%
WIST7042	6801	261	3.8%	487	32	6.6%	121	11	9.1%	623	55	8.8%
WIST7043	2383	83	3.5%	170	10	5.9%	29	3	10.3%	214	17	7.9%
WIST7044	4395	166	3.8%	314	25	8.0%	77	11	14.3%	413	27	6.5%
WIST7045	3356	151	4.5%	202	19	9.4%	58	4	6.9%	285	28	9.8%
WIST7046	2569	273	10.6%	266	44	16.5%	149	20	13.4%	306	44	14.4%
WIST7049	3744	125	3.3%	255	19	7.5%	58	3	5.2%	276	19	6.9%
WIST7052	7084	316	4.5%	434	29	6.7%	130	12	9.2%	585	52	8.9%
WIST7053	1863	88	4.7%	163	9	5.5%	36	1	2.8%	208	21	10.1%
WIST7054	1590	38	2.4%	146	7	4.8%	26	1	3.8%	158	8	5.1%
WIST7055	4640	237	5.1%	414	23	5.6%	133	7	5.3%	504	49	9.7%
WIST7056	4089	172	4.2%	298	18	6.0%	108	5	4.6%	409	41	10.0%
WIST7057	2402	93	3.9%	126	12	9.5%	45	6	13.3%	204	16	7.8%
WIST7060	2448	130	5.3%	226	21	9.3%	47	6	12.8%	271	24	8.9%

40 CFR Part 51.366 (a)(4)
Initial Test Failure by MY and Station

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	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7061	1377	70	5.1%	122	12	9.8%	26	1	3.8%	150	9	6.0%
WIST7062	4102	167	4.1%	301	18	6.0%	85	3	3.5%	424	30	7.1%
WIST7065	4439	259	5.8%	441	39	8.8%	115	5	4.3%	529	40	7.6%
WIST7066	1733	77	4.4%	113	10	8.8%	31	2	6.5%	165	12	7.3%
WIST7067	1643	74	4.5%	133	11	8.3%	19	2	10.5%	162	14	8.6%
WIST7068	2857	61	2.1%	167	8	4.8%	46	3	6.5%	228	16	7.0%
WIST7069	7950	367	4.6%	494	53	10.7%	129	9	7.0%	667	56	8.4%
WIST7070	2335	87	3.7%	124	9	7.3%	32	2	6.3%	216	14	6.5%
WIST7071	3140	131	4.2%	237	23	9.7%	60	2	3.3%	326	27	8.3%
WIST7072	3318	146	4.4%	244	19	7.8%	58	6	10.3%	317	25	7.9%
WIST7073	3572	261	7.3%	297	27	9.1%	118	22	18.6%	354	48	13.6%
WIST7074	9671	967	10.0%	1156	172	14.9%	461	67	14.5%	1312	174	13.3%
WIST7075	3198	100	3.1%	240	14	5.8%	59	1	1.7%	361	23	6.4%
WIST7076	6310	243	3.9%	441	26	5.9%	92	5	5.4%	587	43	7.3%
WIST7078	4179	143	3.4%	286	17	5.9%	76	8	10.5%	376	20	5.3%
WIST7079	2101	234	11.1%	213	27	12.7%	98	23	23.5%	244	34	13.9%
WIST7080	4527	183	4.0%	323	23	7.1%	83	5	6.0%	404	39	9.7%
WIST7081	5521	372	6.7%	472	34	7.2%	172	36	20.9%	634	78	12.3%
WIST7083	8795	344	3.9%	626	45	7.2%	169	15	8.9%	856	70	8.2%
WIST7084	1116	36	3.2%	56	3	5.4%	9	1	11.1%	96	7	7.3%
WIST7086	1151	36	3.1%	45	3	6.7%	19	1	5.3%	88	10	11.4%
WIST7087	2981	234	7.8%	288	31	10.8%	104	11	10.6%	376	45	12.0%
WIST7088	1734	118	6.8%	149	15	10.1%	42	5	11.9%	184	14	7.6%
WIST7090	1519	58	3.8%	112	10	8.9%	41	1	2.4%	140	11	7.9%
WIST7091	832	40	4.8%	59	7	11.9%	26	4	15.4%	60	5	8.3%
WIST7092	1697	81	4.8%	94	9	9.6%	26	4	15.4%	186	19	10.2%
WIST7093	3214	109	3.4%	192	12	6.3%	60	7	11.7%	327	17	5.2%
WIST7094	4085	156	3.8%	268	18	6.7%	51	1	2.0%	348	20	5.7%
WIST7095	1749	46	2.6%	133	8	6.0%	25	3	12.0%	178	8	4.5%
WIST7098	4127	185	4.5%	277	15	5.4%	70	11	15.7%	411	51	12.4%
WIST7103	4044	173	4.3%	315	20	6.3%	78	8	10.3%	434	35	8.1%
WIST7104	2508	176	7.0%	174	15	8.6%	90	11	12.2%	261	30	11.5%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			1999			2000			2001		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7106	4753	78	1.6%	185	8	4.3%	39	3	7.7%	297	14	4.7%
WIST7108	7251	396	5.5%	695	44	6.3%	139	9	6.5%	827	86	10.4%
WIST7109	5089	302	5.9%	411	42	10.2%	122	13	10.7%	505	53	10.5%
WIST7111	5518	502	9.1%	516	75	14.5%	278	38	13.7%	603	75	12.4%
WIST7112	3749	259	6.9%	275	29	10.5%	102	12	11.8%	361	44	12.2%
WIST7113	2941	135	4.6%	190	12	6.3%	58	7	12.1%	266	27	10.2%
WIST7114	1267	72	5.7%	137	12	8.8%	31	4	12.9%	143	15	10.5%
WIST7115	192	2	1.0%	10		0.0%	5		0.0%	15		0.0%
WIST7116	3381	105	3.1%	173	10	5.8%	40	1	2.5%	263	19	7.2%
WIST7117	4288	241	5.6%	326	36	11.0%	109	12	11.0%	406	34	8.4%
WIST7118	1525	96	6.3%	130	9	6.9%	46	4	8.7%	147	26	17.7%
WIST7119	1775	72	4.1%	99	5	5.1%	25	2	8.0%	131	13	9.9%
WIST7120	764	86	11.3%	81	15	18.5%	33	11	33.3%	86	11	12.8%
WIST7121	942	22	2.3%	36	1	2.8%	23		0.0%	55	3	5.5%
WIST7122	10	1	10.0%			#DIV/0!			#DIV/0!			#DIV/0!
WIST8001	1384	50	3.6%	92	8	8.7%	24	1	4.2%	115	9	7.8%
WIST8002	5465	209	3.8%	331	24	7.3%	79	6	7.6%	441	37	8.4%
WIST8003	91	38	41.8%	8	2	25.0%	2	2	100.0%	2	1	50.0%
WIST8004	6999	832	11.9%	915	139	15.2%	405	69	17.0%	968	148	15.3%
WIST8005	3423	247	7.2%	234	32	13.7%	81	12	14.8%	325	44	13.5%
WIST8006	9792	542	5.5%	541	65	12.0%	203	19	9.4%	775	99	12.8%
WIST8007	2702	135	5.0%	159	10	6.3%	54	3	5.6%	245	27	11.0%
WIST8008	1466	157	10.7%	150	30	20.0%	53	8	15.1%	170	29	17.1%
WIST8009	149	4	2.7%	9		0.0%	4		0.0%	9		0.0%
WIST8010	128	8	6.3%	10	1	10.0%	3		0.0%	14	2	14.3%
WIST8011	235	11	4.7%	13	1	7.7%	7	3	42.9%	15	1	6.7%
WISTT001	3191	132	4.1%	222	14	6.3%	50	6	12.0%	280	24	8.6%
WISTT002	3301	339	10.3%	374	61	16.3%	116	20	17.2%	392	64	16.3%
WISTT003	4218	424	10.1%	416	48	11.5%	134	19	14.2%	462	87	18.8%
WISTT005	2544	118	4.6%	198	14	7.1%	42	2	4.8%	232	30	12.9%
WISTT006	3022	133	4.4%	265	20	7.5%	71	2	2.8%	323	36	11.1%
Grand Tota	611851	34331	5.6%	47186	4576	9.7%	15035	1656	11.0%	59760	6259	10.5%

40 CFR Part 51.366 (a)(4)
Initial Test Failure by MY and Station

Station ID	All Initial Tests			2002			2003			2004		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST1002	2083	169	8.1%	93	5	5.4%	316	33	10.4%	98	7	7.1%
WIST1003	1201	32	2.7%	32	2	6.3%	147	3	2.0%	28		0.0%
WIST1006	3409	81	2.4%	64	8	12.5%	399	9	2.3%	74		0.0%
WIST1011	908	33	3.6%	21	1	4.8%	130	4	3.1%	20		0.0%
WIST1012	714	27	3.8%	17	2	11.8%	93	3	3.2%	21		0.0%
WIST1013	2326	89	3.8%	45	4	8.9%	291	16	5.5%	41		0.0%
WIST1014	3388	197	5.8%	100	11	11.0%	474	48	10.1%	94	4	4.3%
WIST1015	5861	218	3.7%	139	8	5.8%	701	34	4.9%	133	5	3.8%
WIST1016	136	10	7.4%	7		0.0%	8		0.0%	3	1	33.3%
WIST2001	4022	182	4.5%	114	11	9.6%	512	32	6.3%	122	4	3.3%
WIST2003	2462	108	4.4%	68	4	5.9%	307	16	5.2%	74	4	5.4%
WIST2006	257	9	3.5%	2		0.0%	34		0.0%	7		0.0%
WIST2014	5517	595	10.8%	261	35	13.4%	612	60	9.8%	237	23	9.7%
WIST2015	2563	72	2.8%	56	5	8.9%	257	12	4.7%	59	4	6.8%
WIST2016	3168	285	9.0%	98	16	16.3%	359	38	10.6%	116	11	9.5%
WIST2017	2357	89	3.8%	45	5	11.1%	228	12	5.3%	58	7	12.1%
WIST2018	5024	239	4.8%	153	12	7.8%	575	32	5.6%	123	2	1.6%
WIST2019	965	56	5.8%	25	1	4.0%	131	13	9.9%	17		0.0%
WIST2020	5133	217	4.2%	94	5	5.3%	628	43	6.8%	97	5	5.2%
WIST2021	22	0	0.0%			#DIV/0!	1	0	0.0%	1	0	0.0%
WIST3003	1194	63	5.3%	39	1	2.6%	122	7	5.7%	32	3	9.4%
WIST3004	2596	105	4.0%	75	8	10.7%	265	18	6.8%	61	2	3.3%
WIST3005	3704	136	3.7%	61	8	13.1%	447	22	4.9%	108	8	7.4%
WIST3006	1498	75	5.0%	20	2	10.0%	207	13	6.3%	39		0.0%
WIST3007	1548	56	3.6%	34	1	2.9%	143	5	3.5%	43	3	7.0%
WIST3013	3831	261	6.8%	152	25	16.4%	388	19	4.9%	150	16	10.7%
WIST3014	1660	111	6.7%	65	7	10.8%	214	24	11.2%	55	1	1.8%
WIST3016	3655	297	8.1%	120	13	10.8%	459	35	7.6%	123	7	5.7%
WIST3017	2585	148	5.7%	54	7	13.0%	281	20	7.1%	48	4	8.3%
WIST3018	592	65	11.0%	42	3	7.1%	78	11	14.1%	24	1	4.2%
WIST3019	35	2	5.7%	1		0.0%	3		0.0%	2		0.0%
WIST4002	987	45	4.6%	22	1	4.5%	135	9	6.7%	27	1	3.7%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2002			2003			2004		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST4003	3858	188	4.9%	112	4	3.6%	501	33	6.6%	92	10	10.9%
WIST4004	2999	128	4.3%	71	4	5.6%	371	17	4.6%	78	2	2.6%
WIST4006	6877	225	3.3%	146	7	4.8%	799	45	5.6%	137	5	3.6%
WIST4009	2064	82	4.0%	42	6	14.3%	275	17	6.2%	46	4	8.7%
WIST4011	5472	212	3.9%	87	8	9.2%	633	30	4.7%	99	7	7.1%
WIST4014	923	42	4.6%	21	2	9.5%	113	9	8.0%	16		0.0%
WIST4017	3693	153	4.1%	76	6	7.9%	473	22	4.7%	83	3	3.6%
WIST4019	1607	78	4.9%	56	8	14.3%	210	5	2.4%	37	3	8.1%
WIST4024	3234	84	2.6%	63	5	7.9%	424	10	2.4%	66		0.0%
WIST4026	1805	61	3.4%	39	3	7.7%	177	16	9.0%	48		0.0%
WIST4031	2974	186	6.3%	117	13	11.1%	371	26	7.0%	92	5	5.4%
WIST4032	5091	713	14.0%	254	47	18.5%	581	76	13.1%	197	25	12.7%
WIST4036	2456	61	2.5%	39	2	5.1%	268	9	3.4%	60	2	3.3%
WIST4039	1564	57	3.6%	23	1	4.3%	178	8	4.5%	26		0.0%
WIST4040	2079	55	2.6%	54	6	11.1%	256	8	3.1%	42	1	2.4%
WIST4041	279	22	7.9%	13	2	15.4%	32	5	15.6%	9	2	22.2%
WIST4042	3495	278	8.0%	143	12	8.4%	479	42	8.8%	133	6	4.5%
WIST4043	7494	480	6.4%	353	35	9.9%	986	68	6.9%	279	14	5.0%
WIST4044	4339	405	9.3%	167	35	21.0%	509	59	11.6%	169	14	8.3%
WIST4045	2080	100	4.8%	61	4	6.6%	257	14	5.4%	39	2	5.1%
WIST4046	2160	119	5.5%	93	9	9.7%	284	16	5.6%	76	4	5.3%
WIST4047	1135	132	11.6%	61	12	19.7%	132	10	7.6%	55	4	7.3%
WIST4048	759	43	5.7%	17	2	11.8%	81	3	3.7%	16	2	12.5%
WIST4049	489	19	3.9%	14		0.0%	61	3	4.9%	11	1	9.1%
WIST4050	112	6	5.4%	1		0.0%	7	1	14.3%	9	1	11.1%
WIST4051	178	14	7.9%	11	1	9.1%	17	2	11.8%	12		0.0%
WIST5001	3182	149	4.7%	64	4	6.3%	378	18	4.8%	62	2	3.2%
WIST5003	2580	171	6.6%	96	13	13.5%	261	23	8.8%	107	7	6.5%
WIST5004	2794	135	4.8%	74	6	8.1%	382	31	8.1%	73	2	2.7%
WIST5005	2079	107	5.1%	67	3	4.5%	272	13	4.8%	52	2	3.8%
WIST5007	1014	41	4.0%	25	3	12.0%	132	2	1.5%	27	3	11.1%
WIST5008	7912	381	4.8%	208	15	7.2%	1082	54	5.0%	181	10	5.5%

40 CFR Part 51.366 (a)(4)
Initial Test Failure by MY and Station

Station ID	All Initial Tests			2002			2003			2004		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST5009	1342	50	3.7%	17	1	5.9%	132	8	6.1%	32	2	6.3%
WIST5011	3026	91	3.0%	47	4	8.5%	354	24	6.8%	64	1	1.6%
WIST5012	3077	123	4.0%	65	7	10.8%	415	15	3.6%	66	3	4.5%
WIST5014	7383	336	4.6%	165	17	10.3%	834	43	5.2%	193	11	5.7%
WIST5015	2876	280	9.7%	136	18	13.2%	359	35	9.7%	95	8	8.4%
WIST5017	1676	79	4.7%	54	5	9.3%	208	9	4.3%	37	1	2.7%
WIST5021	1178	59	5.0%	27	3	11.1%	140	5	3.6%	25	2	8.0%
WIST5022	3959	482	12.2%	193	37	19.2%	485	59	12.2%	141	18	12.8%
WIST5023	711	35	4.9%	28	3	10.7%	83	1	1.2%	28	1	3.6%
WIST5026	23	2	8.7%			#DIV/0!	2		0.0%	2	1	50.0%
WIST5028	2459	108	4.4%	82	8	9.8%	318	20	6.3%	67	1	1.5%
WIST5029	6158	252	4.1%	146	14	9.6%	654	32	4.9%	168	6	3.6%
WIST5036	1114	106	9.5%	45	4	8.9%	161	16	9.9%	39	2	5.1%
WIST5037	1597	51	3.2%	24	3	12.5%	212	7	3.3%	32	1	3.1%
WIST5040	1147	58	5.1%	32	3	9.4%	116	4	3.4%	39	3	7.7%
WIST5041	1280	35	2.7%	23	1	4.3%	166	6	3.6%	25	3	12.0%
WIST5043	423	23	5.4%	7	1	14.3%	55	4	7.3%	7		0.0%
WIST5044	729	22	3.0%	11		0.0%	70		0.0%	13	1	7.7%
WIST5045	1155	51	4.4%	25	1	4.0%	166	8	4.8%	30	3	10.0%
WIST5047	755	35	4.6%	18		0.0%	107	5	4.7%	19		0.0%
WIST5049	3029	108	3.6%	54	2	3.7%	445	18	4.0%	74	2	2.7%
WIST5050	299	14	4.7%	12	1	8.3%	28	1	3.6%	9		0.0%
WIST5052	1116	62	5.6%	29	3	10.3%	133	8	6.0%	22	2	9.1%
WIST5053	1031	26	2.5%	22		0.0%	122	1	0.8%	31		0.0%
WIST5055	4830	313	6.5%	158	17	10.8%	611	55	9.0%	121	7	5.8%
WIST5056	899	61	6.8%	35	4	11.4%	123	9	7.3%	52	2	3.8%
WIST5058	1737	112	6.4%	54	6	11.1%	192	9	4.7%	74	8	10.8%
WIST5061	2182	95	4.4%	58	5	8.6%	293	22	7.5%	56	6	10.7%
WIST5066	3675	228	6.2%	106	12	11.3%	501	30	6.0%	102	3	2.9%
WIST5067	1537	45	2.9%	35	2	5.7%	175	9	5.1%	32		0.0%
WIST5068	2097	90	4.3%	41	3	7.3%	236	13	5.5%	49	4	8.2%
WIST5069	4184	545	13.0%	222	43	19.4%	482	70	14.5%	196	22	11.2%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2002			2003			2004		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST5070	1672	132	7.9%	47	11	23.4%	189	24	12.7%	52	3	5.8%
WIST5071	3465	236	6.8%	107	18	16.8%	405	36	8.9%	95	10	10.5%
WIST5072	452	28	6.2%	21	1	4.8%	45	3	6.7%	18		0.0%
WIST5073	56	7	12.5%			#DIV/0!	8	2	25.0%	3		0.0%
WIST6001	7224	575	8.0%	226	26	11.5%	881	79	9.0%	208	18	8.7%
WIST6004	5264	192	3.6%	112	9	8.0%	675	33	4.9%	112	2	1.8%
WIST6007	1367	41	3.0%	33	1	3.0%	182	7	3.8%	31		0.0%
WIST6012	1401	98	7.0%	33	2	6.1%	164	18	11.0%	40	2	5.0%
WIST6013	1735	76	4.4%	29	5	17.2%	212	8	3.8%	28		0.0%
WIST6014	1344	74	5.5%	40	6	15.0%	197	8	4.1%	35		0.0%
WIST6016	2841	142	5.0%	77	7	9.1%	351	28	8.0%	74	5	6.8%
WIST6018	3999	281	7.0%	135	19	14.1%	519	49	9.4%	132	7	5.3%
WIST6021	1608	59	3.7%	46	1	2.2%	210	12	5.7%	26		0.0%
WIST6022	3337	81	2.4%	61	5	8.2%	388	11	2.8%	84	8	9.5%
WIST6026	174	7	4.0%	5	1	20.0%	13		0.0%	6		0.0%
WIST6027	1796	103	5.7%	44	5	11.4%	173	17	9.8%	50	1	2.0%
WIST6028	250	23	9.2%	9	2	22.2%	32	5	15.6%	8		0.0%
WIST6029	590	39	6.6%	16		0.0%	72	9	12.5%	14		0.0%
WIST6030	124	7	5.6%	9	1	11.1%	10		0.0%	6	1	16.7%
WIST7003	6059	384	6.3%	202	20	9.9%	685	54	7.9%	173	16	9.2%
WIST7004	3889	299	7.7%	121	9	7.4%	506	37	7.3%	103	12	11.7%
WIST7006	1032	34	3.3%	26	2	7.7%	103	4	3.9%	26	2	7.7%
WIST7007	1302	58	4.5%	35	1	2.9%	148	9	6.1%	23		0.0%
WIST7009	3379	163	4.8%	97	12	12.4%	397	20	5.0%	116	7	6.0%
WIST7011	3000	208	6.9%	106	12	11.3%	350	24	6.9%	95	4	4.2%
WIST7012	478	23	4.8%	12		0.0%	51	2	3.9%	9		0.0%
WIST7014	6028	275	4.6%	146	15	10.3%	748	34	4.5%	169	2	1.2%
WIST7015	2231	70	3.1%	57	3	5.3%	265	11	4.2%	58	4	6.9%
WIST7016	7353	343	4.7%	144	14	9.7%	895	68	7.6%	182	5	2.7%
WIST7017	4928	296	6.0%	143	13	9.1%	610	48	7.9%	105	7	6.7%
WIST7018	1319	25	1.9%	27	3	11.1%	162	2	1.2%	22	1	4.5%
WIST7019	969	47	4.9%	30	1	3.3%	128	7	5.5%	25	3	12.0%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2002			2003			2004		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7020	851	52	6.1%	32	4	12.5%	89	9	10.1%	18	1	5.6%
WIST7021	1373	93	6.8%	48	6	12.5%	165	12	7.3%	45	4	8.9%
WIST7022	3122	92	2.9%	58	2	3.4%	384	13	3.4%	55	4	7.3%
WIST7023	3027	187	6.2%	110	6	5.5%	391	27	6.9%	92	4	4.3%
WIST7024	1535	124	8.1%	61	10	16.4%	169	14	8.3%	45	5	11.1%
WIST7025	1586	78	4.9%	50	5	10.0%	213	13	6.1%	37	4	10.8%
WIST7026	1189	139	11.7%	71	5	7.0%	140	11	7.9%	49	5	10.2%
WIST7027	4601	517	11.2%	248	38	15.3%	515	49	9.5%	221	21	9.5%
WIST7030	5109	335	6.6%	144	16	11.1%	644	50	7.8%	160	14	8.8%
WIST7031	1411	60	4.3%	24	3	12.5%	143	13	9.1%	39	1	2.6%
WIST7032	2334	256	11.0%	120	25	20.8%	259	25	9.7%	91	8	8.8%
WIST7033	4434	344	7.8%	176	24	13.6%	545	44	8.1%	149	12	8.1%
WIST7034	1868	104	5.6%	38	4	10.5%	255	11	4.3%	39	4	10.3%
WIST7036	5641	452	8.0%	200	19	9.5%	731	60	8.2%	199	15	7.5%
WIST7037	411	27	6.6%	7	1	14.3%	59	4	6.8%	4		0.0%
WIST7038	514	45	8.8%	16	1	6.3%	76	9	11.8%	20	1	5.0%
WIST7039	1734	75	4.3%	41	2	4.9%	205	14	6.8%	35	3	8.6%
WIST7040	3301	154	4.7%	53	10	18.9%	415	31	7.5%	71	4	5.6%
WIST7041	3838	180	4.7%	92	7	7.6%	510	26	5.1%	81	9	11.1%
WIST7042	6801	261	3.8%	171	12	7.0%	886	42	4.7%	170	9	5.3%
WIST7043	2383	83	3.5%	40	3	7.5%	290	20	6.9%	43	4	9.3%
WIST7044	4395	166	3.8%	97	3	3.1%	547	20	3.7%	98	3	3.1%
WIST7045	3356	151	4.5%	74	6	8.1%	375	23	6.1%	90	8	8.9%
WIST7046	2569	273	10.6%	115	19	16.5%	300	31	10.3%	102	10	9.8%
WIST7049	3744	125	3.3%	65	6	9.2%	446	23	5.2%	80	6	7.5%
WIST7052	7084	316	4.5%	147	12	8.2%	852	47	5.5%	171	13	7.6%
WIST7053	1863	88	4.7%	58	4	6.9%	247	14	5.7%	56	1	1.8%
WIST7054	1590	38	2.4%	22		0.0%	220	3	1.4%	41	1	2.4%
WIST7055	4640	237	5.1%	119	9	7.6%	633	26	4.1%	120	6	5.0%
WIST7056	4089	172	4.2%	98	9	9.2%	534	18	3.4%	124	5	4.0%
WIST7057	2402	93	3.9%	52	6	11.5%	278	15	5.4%	63	4	6.3%
WIST7060	2448	130	5.3%	76	4	5.3%	282	16	5.7%	53	2	3.8%

40 CFR Part 51.366 (a)(4)
Initial Test Failure by MY and Station

Station ID	All Initial Tests			2002			2003			2004		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7061	1377	70	5.1%	38	2	5.3%	166	10	6.0%	37	4	10.8%
WIST7062	4102	167	4.1%	102	8	7.8%	502	25	5.0%	110	6	5.5%
WIST7065	4439	259	5.8%	152	19	12.5%	602	36	6.0%	143	5	3.5%
WIST7066	1733	77	4.4%	32	3	9.4%	228	15	6.6%	36	3	8.3%
WIST7067	1643	74	4.5%	31	3	9.7%	202	17	8.4%	35	1	2.9%
WIST7068	2857	61	2.1%	66	4	6.1%	318	8	2.5%	57	1	1.8%
WIST7069	7950	367	4.6%	191	14	7.3%	927	60	6.5%	210	15	7.1%
WIST7070	2335	87	3.7%	48	2	4.2%	305	17	5.6%	44	2	4.5%
WIST7071	3140	131	4.2%	74	1	1.4%	403	21	5.2%	74	1	1.4%
WIST7072	3318	146	4.4%	72	12	16.7%	406	18	4.4%	68	3	4.4%
WIST7073	3572	261	7.3%	102	12	11.8%	443	40	9.0%	102	9	8.8%
WIST7074	9671	967	10.0%	547	57	10.4%	1354	121	8.9%	418	30	7.2%
WIST7075	3198	100	3.1%	81	5	6.2%	414	12	2.9%	75	2	2.7%
WIST7076	6310	243	3.9%	151	12	7.9%	768	38	4.9%	136	11	8.1%
WIST7078	4179	143	3.4%	92	4	4.3%	549	30	5.5%	102	4	3.9%
WIST7079	2101	234	11.1%	98	12	12.2%	246	27	11.0%	79	18	22.8%
WIST7080	4527	183	4.0%	108	11	10.2%	563	31	5.5%	118	4	3.4%
WIST7081	5521	372	6.7%	172	26	15.1%	684	43	6.3%	143	8	5.6%
WIST7083	8795	344	3.9%	183	16	8.7%	1023	47	4.6%	254	9	3.5%
WIST7084	1116	36	3.2%	16		0.0%	132	4	3.0%	15		0.0%
WIST7086	1151	36	3.1%	23	2	8.7%	106	5	4.7%	30	1	3.3%
WIST7087	2981	234	7.8%	109	13	11.9%	392	33	8.4%	91	6	6.6%
WIST7088	1734	118	6.8%	59	7	11.9%	221	16	7.2%	55	4	7.3%
WIST7090	1519	58	3.8%	32	2	6.3%	185	10	5.4%	31	2	6.5%
WIST7091	832	40	4.8%	26	2	7.7%	92	5	5.4%	23	3	13.0%
WIST7092	1697	81	4.8%	35	4	11.4%	228	12	5.3%	30	1	3.3%
WIST7093	3214	109	3.4%	63	4	6.3%	354	17	4.8%	70	3	4.3%
WIST7094	4085	156	3.8%	75	6	8.0%	521	25	4.8%	79	3	3.8%
WIST7095	1749	46	2.6%	33	4	12.1%	229	5	2.2%	34		0.0%
WIST7098	4127	185	4.5%	82	5	6.1%	501	28	5.6%	97	6	6.2%
WIST7103	4044	173	4.3%	76	6	7.9%	496	27	5.4%	94	3	3.2%
WIST7104	2508	176	7.0%	101	7	6.9%	289	26	9.0%	82	8	9.8%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2002			2003			2004		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7106	4753	78	1.6%	70	2	2.9%	483	19	3.9%	93	3	3.2%
WIST7108	7251	396	5.5%	172	14	8.1%	892	76	8.5%	170	10	5.9%
WIST7109	5089	302	5.9%	132	14	10.6%	631	38	6.0%	145	9	6.2%
WIST7111	5518	502	9.1%	264	28	10.6%	753	63	8.4%	228	22	9.6%
WIST7112	3749	259	6.9%	134	20	14.9%	431	45	10.4%	115	5	4.3%
WIST7113	2941	135	4.6%	83	7	8.4%	357	17	4.8%	80	1	1.3%
WIST7114	1267	72	5.7%	36	2	5.6%	169	9	5.3%	34	3	8.8%
WIST7115	192	2	1.0%	6		0.0%	18		0.0%	6		0.0%
WIST7116	3381	105	3.1%	64	5	7.8%	391	24	6.1%	72	3	4.2%
WIST7117	4288	241	5.6%	138	16	11.6%	523	33	6.3%	135	9	6.7%
WIST7118	1525	96	6.3%	37	6	16.2%	203	16	7.9%	37	2	5.4%
WIST7119	1775	72	4.1%	30	3	10.0%	211	15	7.1%	30	1	3.3%
WIST7120	764	86	11.3%	28	4	14.3%	95	17	17.9%	29	2	6.9%
WIST7121	942	22	2.3%	23	1	4.3%	75	2	2.7%	29	1	3.4%
WIST7122	10	1	10.0%	2		0.0%	1		0.0%			#DIV/0!
WIST8001	1384	50	3.6%	25	1	4.0%	160	6	3.8%	38	2	5.3%
WIST8002	5465	209	3.8%	120	7	5.8%	673	32	4.8%	96	3	3.1%
WIST8003	91	38	41.8%	5	3	60.0%	1	1	100.0%	8	2	25.0%
WIST8004	6999	832	11.9%	391	47	12.0%	902	90	10.0%	280	26	9.3%
WIST8005	3423	247	7.2%	107	16	15.0%	389	30	7.7%	115	13	11.3%
WIST8006	9792	542	5.5%	208	25	12.0%	1158	89	7.7%	269	22	8.2%
WIST8007	2702	135	5.0%	56	6	10.7%	307	24	7.8%	71	6	8.5%
WIST8008	1466	157	10.7%	59	10	16.9%	177	20	11.3%	69	8	11.6%
WIST8009	149	4	2.7%	7		0.0%	15		0.0%	6		0.0%
WIST8010	128	8	6.3%	2		0.0%	10	1	10.0%	4		0.0%
WIST8011	235	11	4.7%	12	1	8.3%	15		0.0%	13	1	7.7%
WISTT001	3191	132	4.1%	56	2	3.6%	340	19	5.6%	86	9	10.5%
WISTT002	3301	339	10.3%	151	26	17.2%	425	52	12.2%	124	10	8.1%
WISTT003	4218	424	10.1%	178	25	14.0%	583	67	11.5%	145	16	11.0%
WISTT005	2544	118	4.6%	64	2	3.1%	298	17	5.7%	74	4	5.4%
WISTT006	3022	133	4.4%	66	4	6.1%	412	17	4.1%	79		0.0%
Grand Tota	611851	34331	5.6%	17473	1805	10.3%	74824	4902	6.6%	16945	1070	6.3%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2005			2006			2007		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST1002	2083	169	8.1%	245	12	4.9%	68	1	1.5%	219	6	2.7%
WIST1003	1201	32	2.7%	171	2	1.2%	21	1	4.8%	184	2	1.1%
WIST1006	3409	81	2.4%	477	11	2.3%	94	3	3.2%	571	13	2.3%
WIST1011	908	33	3.6%	120	5	4.2%	16		0.0%	144	5	3.5%
WIST1012	714	27	3.8%	86	5	5.8%	25		0.0%	112	4	3.6%
WIST1013	2326	89	3.8%	343	11	3.2%	47	3	6.4%	396	10	2.5%
WIST1014	3388	197	5.8%	453	15	3.3%	97	3	3.1%	451	24	5.3%
WIST1015	5861	218	3.7%	866	29	3.3%	127	5	3.9%	942	29	3.1%
WIST1016	136	10	7.4%	15	1	6.7%	6	1	16.7%	29	1	3.4%
WIST2001	4022	182	4.5%	553	23	4.2%	138	3	2.2%	545	18	3.3%
WIST2003	2462	108	4.4%	342	11	3.2%	70	2	2.9%	372	6	1.6%
WIST2006	257	9	3.5%	28		0.0%	9		0.0%	40	1	2.5%
WIST2014	5517	595	10.8%	593	29	4.9%	204	14	6.9%	574	33	5.7%
WIST2015	2563	72	2.8%	326	6	1.8%	85	3	3.5%	463	7	1.5%
WIST2016	3168	285	9.0%	396	32	8.1%	121	8	6.6%	429	13	3.0%
WIST2017	2357	89	3.8%	296	9	3.0%	53	1	1.9%	406	9	2.2%
WIST2018	5024	239	4.8%	736	47	6.4%	149	3	2.0%	779	22	2.8%
WIST2019	965	56	5.8%	140	6	4.3%	21		0.0%	138	2	1.4%
WIST2020	5133	217	4.2%	744	29	3.9%	117	4	3.4%	759	27	3.6%
WIST2021	22	0	0.0%	3	0	0.0%	3	0	0.0%	5	0	0.0%
WIST3003	1194	63	5.3%	182	6	3.3%	32	2	6.3%	164	5	3.0%
WIST3004	2596	105	4.0%	380	11	2.9%	66	5	7.6%	371	13	3.5%
WIST3005	3704	136	3.7%	538	16	3.0%	89	4	4.5%	539	12	2.2%
WIST3006	1498	75	5.0%	214	9	4.2%	22		0.0%	190	4	2.1%
WIST3007	1548	56	3.6%	181	8	4.4%	39	2	5.1%	257	6	2.3%
WIST3013	3831	261	6.8%	434	31	7.1%	125	2	1.6%	573	16	2.8%
WIST3014	1660	111	6.7%	241	12	5.0%	47	1	2.1%	194	6	3.1%
WIST3016	3655	297	8.1%	488	35	7.2%	113	7	6.2%	456	14	3.1%
WIST3017	2585	148	5.7%	364	20	5.5%	77	4	5.2%	422	17	4.0%
WIST3018	592	65	11.0%	79	4	5.1%	23	3	13.0%	67	3	4.5%
WIST3019	35	2	5.7%			#DIV/0!	4		0.0%	7	1	14.3%
WIST4002	987	45	4.6%	143	1	0.7%	23	1	4.3%	164	8	4.9%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2005			2006			2007		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST4003	3858	188	4.9%	566	18	3.2%	103	5	4.9%	554	23	4.2%
WIST4004	2999	128	4.3%	470	12	2.6%	55	3	5.5%	425	8	1.9%
WIST4006	6877	225	3.3%	1011	31	3.1%	178	5	2.8%	1056	19	1.8%
WIST4009	2064	82	4.0%	284	5	1.8%	52	2	3.8%	307	5	1.6%
WIST4011	5472	212	3.9%	757	32	4.2%	105	6	5.7%	895	15	1.7%
WIST4014	923	42	4.6%	116	7	6.0%	26		0.0%	133	3	2.3%
WIST4017	3693	153	4.1%	581	28	4.8%	74	3	4.1%	587	13	2.2%
WIST4019	1607	78	4.9%	227	8	3.5%	41	1	2.4%	206	6	2.9%
WIST4024	3234	84	2.6%	492	12	2.4%	70	5	7.1%	513	10	1.9%
WIST4026	1805	61	3.4%	247	8	3.2%	45		0.0%	297	6	2.0%
WIST4031	2974	186	6.3%	412	16	3.9%	94	5	5.3%	310	10	3.2%
WIST4032	5091	713	14.0%	540	51	9.4%	191	13	6.8%	513	32	6.2%
WIST4036	2456	61	2.5%	322	10	3.1%	56		0.0%	406	6	1.5%
WIST4039	1564	57	3.6%	230	7	3.0%	36		0.0%	276	6	2.2%
WIST4040	2079	55	2.6%	309	7	2.3%	42	1	2.4%	268	3	1.1%
WIST4041	279	22	7.9%	34		0.0%	9	2	22.2%	37	2	5.4%
WIST4042	3495	278	8.0%	477	23	4.8%	126	7	5.6%	401	11	2.7%
WIST4043	7494	480	6.4%	980	36	3.7%	261	8	3.1%	901	25	2.8%
WIST4044	4339	405	9.3%	513	29	5.7%	159	14	8.8%	535	15	2.8%
WIST4045	2080	100	4.8%	311	13	4.2%	42	1	2.4%	300	9	3.0%
WIST4046	2160	119	5.5%	263	15	5.7%	65	1	1.5%	268	6	2.2%
WIST4047	1135	132	11.6%	106	10	9.4%	47	1	2.1%	114	9	7.9%
WIST4048	759	43	5.7%	106	9	8.5%	20	1	5.0%	112	3	2.7%
WIST4049	489	19	3.9%	59	1	1.7%	23	1	4.3%	76	3	3.9%
WIST4050	112	6	5.4%	9		0.0%	7		0.0%	9	1	11.1%
WIST4051	178	14	7.9%	15	2	13.3%	9		0.0%	20		0.0%
WIST5001	3182	149	4.7%	469	19	4.1%	52		0.0%	520	17	3.3%
WIST5003	2580	171	6.6%	340	21	6.2%	100	7	7.0%	352	13	3.7%
WIST5004	2794	135	4.8%	421	22	5.2%	61	3	4.9%	441	8	1.8%
WIST5005	2079	107	5.1%	308	17	5.5%	46	1	2.2%	256	6	2.3%
WIST5007	1014	41	4.0%	141	6	4.3%	27	1	3.7%	152	2	1.3%
WIST5008	7912	381	4.8%	1223	60	4.9%	190	7	3.7%	1140	29	2.5%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2005			2006			2007		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST5009	1342	50	3.7%	194	6	3.1%	37	2	5.4%	261	7	2.7%
WIST5011	3026	91	3.0%	497	14	2.8%	54	1	1.9%	532	11	2.1%
WIST5012	3077	123	4.0%	467	15	3.2%	66	5	7.6%	465	10	2.2%
WIST5014	7383	336	4.6%	1013	45	4.4%	163	5	3.1%	1115	27	2.4%
WIST5015	2876	280	9.7%	342	27	7.9%	85	6	7.1%	311	18	5.8%
WIST5017	1676	79	4.7%	242	10	4.1%	29	1	3.4%	228	5	2.2%
WIST5021	1178	59	5.0%	174	10	5.7%	29		0.0%	192	8	4.2%
WIST5022	3959	482	12.2%	444	31	7.0%	112	10	8.9%	461	18	3.9%
WIST5023	711	35	4.9%	119	7	5.9%	30	1	3.3%	95	1	1.1%
WIST5026	23	2	8.7%	7		0.0%			#DIV/0!	2		0.0%
WIST5028	2459	108	4.4%	328	11	3.4%	70	3	4.3%	295	4	1.4%
WIST5029	6158	252	4.1%	775	24	3.1%	177	6	3.4%	953	30	3.1%
WIST5036	1114	106	9.5%	134	7	5.2%	37	3	8.1%	123	8	6.5%
WIST5037	1597	51	3.2%	256	8	3.1%	46	1	2.2%	233	3	1.3%
WIST5040	1147	58	5.1%	156	9	5.8%	24	2	8.3%	166	5	3.0%
WIST5041	1280	35	2.7%	199	2	1.0%	23	1	4.3%	210	5	2.4%
WIST5043	423	23	5.4%	64	3	4.7%	21	1	4.8%	57	2	3.5%
WIST5044	729	22	3.0%	100	8	8.0%	15		0.0%	103	1	1.0%
WIST5045	1155	51	4.4%	155	6	3.9%	16		0.0%	165	5	3.0%
WIST5047	755	35	4.6%	113	5	4.4%	27		0.0%	115	2	1.7%
WIST5049	3029	108	3.6%	459	13	2.8%	70	1	1.4%	452	8	1.8%
WIST5050	299	14	4.7%	34	2	5.9%	5	1	20.0%	41	2	4.9%
WIST5052	1116	62	5.6%	161	5	3.1%	17	4	23.5%	154	3	1.9%
WIST5053	1031	26	2.5%	152	5	3.3%	23		0.0%	140	2	1.4%
WIST5055	4830	313	6.5%	680	34	5.0%	164	9	5.5%	684	21	3.1%
WIST5056	899	61	6.8%	112	3	2.7%	38	4	10.5%	102	2	2.0%
WIST5058	1737	112	6.4%	222	21	9.5%	62	6	9.7%	242	10	4.1%
WIST5061	2182	95	4.4%	335	15	4.5%	53		0.0%	299	2	0.7%
WIST5066	3675	228	6.2%	498	26	5.2%	93	6	6.5%	462	17	3.7%
WIST5067	1537	45	2.9%	222	5	2.3%	39		0.0%	239	7	2.9%
WIST5068	2097	90	4.3%	315	8	2.5%	51	1	2.0%	369	10	2.7%
WIST5069	4184	545	13.0%	445	37	8.3%	162	17	10.5%	465	29	6.2%

40 CFR Part 51.366 (a)(4)
Initial Test Failure by MY and Station

Station ID	All Initial Tests			2005			2006			2007		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST5070	1672	132	7.9%	218	12	5.5%	64	3	4.7%	234	14	6.0%
WIST5071	3465	236	6.8%	464	19	4.1%	86	2	2.3%	530	18	3.4%
WIST5072	452	28	6.2%	43	2	4.7%	18		0.0%	50	1	2.0%
WIST5073	56	7	12.5%	6	2	33.3%	4		0.0%	5		0.0%
WIST6001	7224	575	8.0%	918	50	5.4%	158	9	5.7%	853	23	2.7%
WIST6004	5264	192	3.6%	767	26	3.4%	120	3	2.5%	865	21	2.4%
WIST6007	1367	41	3.0%	217	7	3.2%	20		0.0%	199	4	2.0%
WIST6012	1401	98	7.0%	184	10	5.4%	33	1	3.0%	203	7	3.4%
WIST6013	1735	76	4.4%	233	7	3.0%	40		0.0%	300	9	3.0%
WIST6014	1344	74	5.5%	184	11	6.0%	44	2	4.5%	163	2	1.2%
WIST6016	2841	142	5.0%	410	19	4.6%	59	1	1.7%	391	10	2.6%
WIST6018	3999	281	7.0%	522	25	4.8%	87	6	6.9%	477	11	2.3%
WIST6021	1608	59	3.7%	240	7	2.9%	34	2	5.9%	264	6	2.3%
WIST6022	3337	81	2.4%	499	13	2.6%	72	1	1.4%	551	5	0.9%
WIST6026	174	7	4.0%	23	1	4.3%	8	1	12.5%	14	1	7.1%
WIST6027	1796	103	5.7%	245	14	5.7%	56	2	3.6%	268	12	4.5%
WIST6028	250	23	9.2%	27	1	3.7%	12	1	8.3%	23	1	4.3%
WIST6029	590	39	6.6%	83	6	7.2%	18		0.0%	88	8	9.1%
WIST6030	124	7	5.6%	13	1	7.7%	3		0.0%	14		0.0%
WIST7003	6059	384	6.3%	757	37	4.9%	172	10	5.8%	867	37	4.3%
WIST7004	3889	299	7.7%	456	29	6.4%	108	10	9.3%	509	14	2.8%
WIST7006	1032	34	3.3%	150	2	1.3%	31		0.0%	163	7	4.3%
WIST7007	1302	58	4.5%	211	8	3.8%	28	2	7.1%	176	3	1.7%
WIST7009	3379	163	4.8%	433	13	3.0%	112	4	3.6%	550	9	1.6%
WIST7011	3000	208	6.9%	418	22	5.3%	85	4	4.7%	359	17	4.7%
WIST7012	478	23	4.8%	70	5	7.1%	6		0.0%	73		0.0%
WIST7014	6028	275	4.6%	891	37	4.2%	172	9	5.2%	851	23	2.7%
WIST7015	2231	70	3.1%	332	7	2.1%	61	1	1.6%	365	10	2.7%
WIST7016	7353	343	4.7%	1107	55	5.0%	184	5	2.7%	1221	40	3.3%
WIST7017	4928	296	6.0%	694	24	3.5%	135	8	5.9%	750	21	2.8%
WIST7018	1319	25	1.9%	170	3	1.8%	32	1	3.1%	205	3	1.5%
WIST7019	969	47	4.9%	137	6	4.4%	28		0.0%	122	3	2.5%

40 CFR Part 51.366 (a)(4)
Initial Test Failure by MY and Station

Station ID	All Initial Tests			2005			2006			2007		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7020	851	52	6.1%	133	5	3.8%	21		0.0%	114	5	4.4%
WIST7021	1373	93	6.8%	187	10	5.3%	36		0.0%	195	5	2.6%
WIST7022	3122	92	2.9%	440	13	3.0%	65	3	4.6%	543	9	1.7%
WIST7023	3027	187	6.2%	396	8	2.0%	109	7	6.4%	385	12	3.1%
WIST7024	1535	124	8.1%	229	18	7.9%	49	3	6.1%	192	9	4.7%
WIST7025	1586	78	4.9%	218	8	3.7%	35	3	8.6%	250	10	4.0%
WIST7026	1189	139	11.7%	152	19	12.5%	44	4	9.1%	109	4	3.7%
WIST7027	4601	517	11.2%	468	44	9.4%	216	10	4.6%	436	16	3.7%
WIST7030	5109	335	6.6%	744	40	5.4%	125	4	3.2%	660	22	3.3%
WIST7031	1411	60	4.3%	194	5	2.6%	38	3	7.9%	278	4	1.4%
WIST7032	2334	256	11.0%	260	16	6.2%	72	4	5.6%	265	6	2.3%
WIST7033	4434	344	7.8%	539	25	4.6%	122	7	5.7%	492	18	3.7%
WIST7034	1868	104	5.6%	283	10	3.5%	44	3	6.8%	293	12	4.1%
WIST7036	5641	452	8.0%	683	40	5.9%	163	9	5.5%	629	26	4.1%
WIST7037	411	27	6.6%	72	5	6.9%	5		0.0%	55	3	5.5%
WIST7038	514	45	8.8%	70	4	5.7%	12	2	16.7%	60	2	3.3%
WIST7039	1734	75	4.3%	246	7	2.8%	32		0.0%	264	11	4.2%
WIST7040	3301	154	4.7%	518	26	5.0%	90	4	4.4%	518	20	3.9%
WIST7041	3838	180	4.7%	559	23	4.1%	86	1	1.2%	627	15	2.4%
WIST7042	6801	261	3.8%	1016	33	3.2%	156	7	4.5%	1053	17	1.6%
WIST7043	2383	83	3.5%	372	7	1.9%	47	2	4.3%	370	6	1.6%
WIST7044	4395	166	3.8%	636	26	4.1%	109	3	2.8%	662	14	2.1%
WIST7045	3356	151	4.5%	478	23	4.8%	98	4	4.1%	519	11	2.1%
WIST7046	2569	273	10.6%	280	21	7.5%	87	4	4.6%	261	6	2.3%
WIST7049	3744	125	3.3%	559	15	2.7%	108	2	1.9%	588	7	1.2%
WIST7052	7084	316	4.5%	1045	50	4.8%	171	2	1.2%	1191	30	2.5%
WIST7053	1863	88	4.7%	246	9	3.7%	30	2	6.7%	249	8	3.2%
WIST7054	1590	38	2.4%	255	7	2.7%	26		0.0%	209	3	1.4%
WIST7055	4640	237	5.1%	640	31	4.8%	109	6	5.5%	585	13	2.2%
WIST7056	4089	172	4.2%	618	22	3.6%	93	6	6.5%	565	15	2.7%
WIST7057	2402	93	3.9%	321	9	2.8%	84	1	1.2%	336	5	1.5%
WIST7060	2448	130	5.3%	355	16	4.5%	60	3	5.0%	310	11	3.5%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2005			2006			2007		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7061	1377	70	5.1%	178	11	6.2%	29	1	3.4%	206	4	1.9%
WIST7062	4102	167	4.1%	660	24	3.6%	112	7	6.3%	588	14	2.4%
WIST7065	4439	259	5.8%	637	35	5.5%	119	3	2.5%	519	16	3.1%
WIST7066	1733	77	4.4%	260	12	4.6%	35	3	8.6%	250	7	2.8%
WIST7067	1643	74	4.5%	222	8	3.6%	53	2	3.8%	263	5	1.9%
WIST7068	2857	61	2.1%	439	9	2.1%	68		0.0%	482	6	1.2%
WIST7069	7950	367	4.6%	1158	51	4.4%	209	5	2.4%	1240	39	3.1%
WIST7070	2335	87	3.7%	353	13	3.7%	43	2	4.7%	379	12	3.2%
WIST7071	3140	131	4.2%	440	15	3.4%	93	2	2.2%	439	16	3.6%
WIST7072	3318	146	4.4%	483	18	3.7%	81	3	3.7%	529	15	2.8%
WIST7073	3572	261	7.3%	494	25	5.1%	98	4	4.1%	477	13	2.7%
WIST7074	9671	967	10.0%	1064	65	6.1%	319	13	4.1%	825	36	4.4%
WIST7075	3198	100	3.1%	486	13	2.7%	69	1	1.4%	444	7	1.6%
WIST7076	6310	243	3.9%	903	32	3.5%	146	4	2.7%	1011	27	2.7%
WIST7078	4179	143	3.4%	563	16	2.8%	101	4	4.0%	611	11	1.8%
WIST7079	2101	234	11.1%	272	20	7.4%	68	6	8.8%	243	6	2.5%
WIST7080	4527	183	4.0%	655	28	4.3%	121	1	0.8%	641	12	1.9%
WIST7081	5521	372	6.7%	696	30	4.3%	151	5	3.3%	722	17	2.4%
WIST7083	8795	344	3.9%	1276	54	4.2%	232	5	2.2%	1370	31	2.3%
WIST7084	1116	36	3.2%	175	8	4.6%	21	1	4.8%	190	3	1.6%
WIST7086	1151	36	3.1%	173	4	2.3%	29	1	3.4%	196	2	1.0%
WIST7087	2981	234	7.8%	382	19	5.0%	74	7	9.5%	333	7	2.1%
WIST7088	1734	118	6.8%	234	11	4.7%	40	2	5.0%	239	8	3.3%
WIST7090	1519	58	3.8%	229	2	0.9%	43	2	4.7%	226	6	2.7%
WIST7091	832	40	4.8%	118	1	0.8%	36	1	2.8%	132	4	3.0%
WIST7092	1697	81	4.8%	240	20	8.3%	29		0.0%	252	4	1.6%
WIST7093	3214	109	3.4%	460	9	2.0%	94	1	1.1%	514	12	2.3%
WIST7094	4085	156	3.8%	631	30	4.8%	78	2	2.6%	620	18	2.9%
WIST7095	1749	46	2.6%	246	9	3.7%	25		0.0%	279	4	1.4%
WIST7098	4127	185	4.5%	590	15	2.5%	128	1	0.8%	673	14	2.1%
WIST7103	4044	173	4.3%	583	26	4.5%	88	4	4.5%	623	11	1.8%
WIST7104	2508	176	7.0%	285	15	5.3%	108	7	6.5%	326	10	3.1%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2005			2006			2007		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7106	4753	78	1.6%	643	7	1.1%	110	1	0.9%	850	6	0.7%
WIST7108	7251	396	5.5%	1021	34	3.3%	156	11	7.1%	1020	27	2.6%
WIST7109	5089	302	5.9%	728	46	6.3%	134	6	4.5%	757	18	2.4%
WIST7111	5518	502	9.1%	637	49	7.7%	181	6	3.3%	578	20	3.5%
WIST7112	3749	259	6.9%	505	20	4.0%	105	6	5.7%	554	24	4.3%
WIST7113	2941	135	4.6%	432	15	3.5%	82	5	6.1%	462	20	4.3%
WIST7114	1267	72	5.7%	183	7	3.8%	26	3	11.5%	172	6	3.5%
WIST7115	192	2	1.0%	24		0.0%	3		0.0%	38	1	2.6%
WIST7116	3381	105	3.1%	517	14	2.7%	78	3	3.8%	544	12	2.2%
WIST7117	4288	241	5.6%	601	38	6.3%	112	7	6.3%	620	18	2.9%
WIST7118	1525	96	6.3%	225	7	3.1%	39		0.0%	210	8	3.8%
WIST7119	1775	72	4.1%	247	8	3.2%	34	2	5.9%	287	8	2.8%
WIST7120	764	86	11.3%	84	4	4.8%	32	1	3.1%	81	5	6.2%
WIST7121	942	22	2.3%	97	4	4.1%	35	1	2.9%	144	3	2.1%
WIST7122	10	1	10.0%	1		0.0%	2	1	50.0%			#DIV/0!
WIST8001	1384	50	3.6%	189	8	4.2%	30		0.0%	207	8	3.9%
WIST8002	5465	209	3.8%	783	31	4.0%	105	5	4.8%	905	17	1.9%
WIST8003	91	38	41.8%			#DIV/0!	9	4	44.4%	3		0.0%
WIST8004	6999	832	11.9%	703	50	7.1%	257	21	8.2%	517	25	4.8%
WIST8005	3423	247	7.2%	447	20	4.5%	120	10	8.3%	522	14	2.7%
WIST8006	9792	542	5.5%	1378	64	4.6%	267	12	4.5%	1571	49	3.1%
WIST8007	2702	135	5.0%	415	13	3.1%	80	5	6.3%	394	12	3.0%
WIST8008	1466	157	10.7%	162	6	3.7%	51	3	5.9%	187	11	5.9%
WIST8009	149	4	2.7%	14	1	7.1%	2		0.0%	19	2	10.5%
WIST8010	128	8	6.3%	21		0.0%	5	1	20.0%	16	1	6.3%
WIST8011	235	11	4.7%	27		0.0%	14	2	14.3%	25		0.0%
WISTT001	3191	132	4.1%	457	25	5.5%	75		0.0%	500	13	2.6%
WISTT002	3301	339	10.3%	421	21	5.0%	88	1	1.1%	340	22	6.5%
WISTT003	4218	424	10.1%	558	39	7.0%	118	14	11.9%	476	21	4.4%
WISTT005	2544	118	4.6%	334	14	4.2%	49	2	4.1%	385	12	3.1%
WISTT006	3022	133	4.4%	443	19	4.3%	77	3	3.9%	407	4	1.0%
Grand Tota	611851	34331	5.6%	84146	3681	4.4%	16429	720	4.4%	86672	2423	2.8%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2008			2009			2010		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST1002	2083	169	8.1%	64	1	1.6%	88	1	1.1%	10		0.0%
WIST1003	1201	32	2.7%	37	1	2.7%	120	5	4.2%	6		0.0%
WIST1006	3409	81	2.4%	85	2	2.4%	486	1	0.2%	32		0.0%
WIST1011	908	33	3.6%	20		0.0%	100	3	3.0%	4		0.0%
WIST1012	714	27	3.8%	17		0.0%	61		0.0%	8		0.0%
WIST1013	2326	89	3.8%	64	1	1.6%	304	2	0.7%	20	1	5.0%
WIST1014	3388	197	5.8%	86	1	1.2%	274	1	0.4%	19	1	5.3%
WIST1015	5861	218	3.7%	151	4	2.6%	668	9	1.3%	37		0.0%
WIST1016	136	10	7.4%	8		0.0%	7		0.0%	2	1	50.0%
WIST2001	4022	182	4.5%	171	1	0.6%	414	8	1.9%	38		0.0%
WIST2003	2462	108	4.4%	74	2	2.7%	243	2	0.8%	18		0.0%
WIST2006	257	9	3.5%	7		0.0%	28	3	10.7%	1		0.0%
WIST2014	5517	595	10.8%	186	3	1.6%	358	9	2.5%	38		0.0%
WIST2015	2563	72	2.8%	79	1	1.3%	376	4	1.1%	28		0.0%
WIST2016	3168	285	9.0%	137	3	2.2%	329	8	2.4%	29	3	10.3%
WIST2017	2357	89	3.8%	97		0.0%	288	5	1.7%	29	1	3.4%
WIST2018	5024	239	4.8%	137	3	2.2%	529	5	0.9%	41	1	2.4%
WIST2019	965	56	5.8%	18	1	5.6%	98	3	3.1%	10		0.0%
WIST2020	5133	217	4.2%	133	1	0.8%	639	11	1.7%	44		0.0%
WIST2021	22	0	0.0%	1	0	0.0%	1	0	0.0%	1	0	0.0%
WIST3003	1194	63	5.3%	30	1	3.3%	100	1	1.0%	6		0.0%
WIST3004	2596	105	4.0%	79	5	6.3%	309	3	1.0%	20		0.0%
WIST3005	3704	136	3.7%	105	2	1.9%	378	6	1.6%	28	2	7.1%
WIST3006	1498	75	5.0%	37	2	5.4%	121	2	1.7%	4		0.0%
WIST3007	1548	56	3.6%	52	2	3.8%	203	1	0.5%	12		0.0%
WIST3013	3831	261	6.8%	146	2	1.4%	407	8	2.0%	48	1	2.1%
WIST3014	1660	111	6.7%	51	1	2.0%	132	2	1.5%	12		0.0%
WIST3016	3655	297	8.1%	95	3	3.2%	262	3	1.1%	21		0.0%
WIST3017	2585	148	5.7%	79	4	5.1%	330	5	1.5%	19	2	10.5%
WIST3018	592	65	11.0%	11		0.0%	31	2	6.5%	3		0.0%
WIST3019	35	2	5.7%	1		0.0%	4		0.0%	2		0.0%
WIST4002	987	45	4.6%	22		0.0%	92		0.0%	5		0.0%

40 CFR Part 51.366 (a)(4)
Initial Test Failure by MY and Station

Station ID	All Initial Tests			2008			2009			2010		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST4003	3858	188	4.9%	87	2	2.3%	392	4	1.0%	38		0.0%
WIST4004	2999	128	4.3%	73	3	4.1%	291	7	2.4%	21		0.0%
WIST4006	6877	225	3.3%	192		0.0%	828	11	1.3%	64	1	1.6%
WIST4009	2064	82	4.0%	56		0.0%	218	4	1.8%	17		0.0%
WIST4011	5472	212	3.9%	119	4	3.4%	765	5	0.7%	51		0.0%
WIST4014	923	42	4.6%	15		0.0%	80		0.0%	2		0.0%
WIST4017	3693	153	4.1%	81	4	4.9%	410	5	1.2%	32	1	3.1%
WIST4019	1607	78	4.9%	45	1	2.2%	96	3	3.1%	8		0.0%
WIST4024	3234	84	2.6%	74	1	1.4%	377	1	0.3%	22		0.0%
WIST4026	1805	61	3.4%	57	1	1.8%	259	2	0.8%	21		0.0%
WIST4031	2974	186	6.3%	81	1	1.2%	201	2	1.0%	10		0.0%
WIST4032	5091	713	14.0%	157	8	5.1%	271	9	3.3%	36	1	2.8%
WIST4036	2456	61	2.5%	80		0.0%	338	1	0.3%	16		0.0%
WIST4039	1564	57	3.6%	41	1	2.4%	150	2	1.3%	7		0.0%
WIST4040	2079	55	2.6%	60	1	1.7%	248	3	1.2%	22		0.0%
WIST4041	279	22	7.9%	5		0.0%	28		0.0%	3		0.0%
WIST4042	3495	278	8.0%	100	2	2.0%	245	7	2.9%	27		0.0%
WIST4043	7494	480	6.4%	236	6	2.5%	482	9	1.9%	45	1	2.2%
WIST4044	4339	405	9.3%	109	6	5.5%	390	15	3.8%	40		0.0%
WIST4045	2080	100	4.8%	57	1	1.8%	167	3	1.8%	12		0.0%
WIST4046	2160	119	5.5%	52		0.0%	206	1	0.5%	11		0.0%
WIST4047	1135	132	11.6%	36	1	2.8%	73	3	4.1%	7		0.0%
WIST4048	759	43	5.7%	19		0.0%	92	4	4.3%	10		0.0%
WIST4049	489	19	3.9%	5		0.0%	49	1	2.0%	10	1	10.0%
WIST4050	112	6	5.4%	12		0.0%	7		0.0%	7	1	14.3%
WIST4051	178	14	7.9%	10		0.0%	9	1	11.1%	10		0.0%
WIST5001	3182	149	4.7%	53		0.0%	352	3	0.9%	9		0.0%
WIST5003	2580	171	6.6%	103	3	2.9%	192	2	1.0%	34	1	2.9%
WIST5004	2794	135	4.8%	60	2	3.3%	317	2	0.6%	18		0.0%
WIST5005	2079	107	5.1%	37		0.0%	172	2	1.2%	15		0.0%
WIST5007	1014	41	4.0%	22		0.0%	98		0.0%	9		0.0%
WIST5008	7912	381	4.8%	176	2	1.1%	693	13	1.9%	45		0.0%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2008			2009			2010		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST5009	1342	50	3.7%	41		0.0%	176	2	1.1%	15		0.0%
WIST5011	3026	91	3.0%	74	1	1.4%	389	2	0.5%	28		0.0%
WIST5012	3077	123	4.0%	71	2	2.8%	343	4	1.2%	20		0.0%
WIST5014	7383	336	4.6%	238	6	2.5%	860	8	0.9%	61		0.0%
WIST5015	2876	280	9.7%	74	4	5.4%	192	4	2.1%	12	2	16.7%
WIST5017	1676	79	4.7%	38	1	2.6%	153	1	0.7%	8		0.0%
WIST5021	1178	59	5.0%	24		0.0%	105	2	1.9%	7		0.0%
WIST5022	3959	482	12.2%	92	4	4.3%	258	7	2.7%	24		0.0%
WIST5023	711	35	4.9%	15	1	6.7%	68		0.0%	8		0.0%
WIST5026	23	2	8.7%	4		0.0%	2		0.0%			#DIV/0!
WIST5028	2459	108	4.4%	65		0.0%	207	4	1.9%	14		0.0%
WIST5029	6158	252	4.1%	206	4	1.9%	747	7	0.9%	56	2	3.6%
WIST5036	1114	106	9.5%	29		0.0%	82	2	2.4%	8		0.0%
WIST5037	1597	51	3.2%	38	2	5.3%	154		0.0%	15		0.0%
WIST5040	1147	58	5.1%	27	1	3.7%	104	4	3.8%	8		0.0%
WIST5041	1280	35	2.7%	25		0.0%	172	3	1.7%	8		0.0%
WIST5043	423	23	5.4%	7		0.0%	48		0.0%	8	1	12.5%
WIST5044	729	22	3.0%	24		0.0%	120	2	1.7%	15	1	6.7%
WIST5045	1155	51	4.4%	23	1	4.3%	121	1	0.8%	4		0.0%
WIST5047	755	35	4.6%	22		0.0%	88	1	1.1%	8	1	12.5%
WIST5049	3029	108	3.6%	79	2	2.5%	303	4	1.3%	24		0.0%
WIST5050	299	14	4.7%	12	1	8.3%	23		0.0%	2		0.0%
WIST5052	1116	62	5.6%	30	3	10.0%	102	1	1.0%	6		0.0%
WIST5053	1031	26	2.5%	21		0.0%	58	1	1.7%	6		0.0%
WIST5055	4830	313	6.5%	151	6	4.0%	452	11	2.4%	46		0.0%
WIST5056	899	61	6.8%	26	1	3.8%	62		0.0%	9		0.0%
WIST5058	1737	112	6.4%	51	1	2.0%	155	2	1.3%	8		0.0%
WIST5061	2182	95	4.4%	48		0.0%	186	2	1.1%	13		0.0%
WIST5066	3675	228	6.2%	82	4	4.9%	285	2	0.7%	31		0.0%
WIST5067	1537	45	2.9%	36	2	5.6%	179	1	0.6%	8		0.0%
WIST5068	2097	90	4.3%	45		0.0%	251	3	1.2%	19		0.0%
WIST5069	4184	545	13.0%	164	9	5.5%	247	11	4.5%	34	1	2.9%

40 CFR Part 51.366 (a)(4)
Initial Test Failure by MY and Station

Station ID	All Initial Tests			2008			2009			2010		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST5070	1672	132	7.9%	56		0.0%	177	1	0.6%	9		0.0%
WIST5071	3465	236	6.8%	88	3	3.4%	355	8	2.3%	11		0.0%
WIST5072	452	28	6.2%	6		0.0%	42		0.0%	4		0.0%
WIST5073	56	7	12.5%	3		0.0%	7		0.0%	1		0.0%
WIST6001	7224	575	8.0%	153	1	0.7%	559	7	1.3%	41		0.0%
WIST6004	5264	192	3.6%	122		0.0%	577	4	0.7%	33		0.0%
WIST6007	1367	41	3.0%	37		0.0%	103	1	1.0%	9		0.0%
WIST6012	1401	98	7.0%	39	1	2.6%	163	6	3.7%	13		0.0%
WIST6013	1735	76	4.4%	45	1	2.2%	203		0.0%	20	1	5.0%
WIST6014	1344	74	5.5%	35	1	2.9%	124	1	0.8%	3		0.0%
WIST6016	2841	142	5.0%	76	2	2.6%	274	3	1.1%	17		0.0%
WIST6018	3999	281	7.0%	111		0.0%	344	8	2.3%	29		0.0%
WIST6021	1608	59	3.7%	45		0.0%	160	1	0.6%	12	2	16.7%
WIST6022	3337	81	2.4%	81		0.0%	454	4	0.9%	23		0.0%
WIST6026	174	7	4.0%	11		0.0%	21		0.0%	5		0.0%
WIST6027	1796	103	5.7%	63		0.0%	217	6	2.8%	16	1	6.3%
WIST6028	250	23	9.2%	6		0.0%	24	2	8.3%	3		0.0%
WIST6029	590	39	6.6%	22	1	4.5%	63	1	1.6%	7		0.0%
WIST6030	124	7	5.6%	10		0.0%	7		0.0%	8		0.0%
WIST7003	6059	384	6.3%	170	4	2.4%	574	12	2.1%	46	2	4.3%
WIST7004	3889	299	7.7%	83	1	1.2%	331	8	2.4%	31	2	6.5%
WIST7006	1032	34	3.3%	32	1	3.1%	113	2	1.8%	14		0.0%
WIST7007	1302	58	4.5%	37	1	2.7%	157	2	1.3%	6		0.0%
WIST7009	3379	163	4.8%	99	1	1.0%	327	7	2.1%	35		0.0%
WIST7011	3000	208	6.9%	67	5	7.5%	264	9	3.4%	21		0.0%
WIST7012	478	23	4.8%	13	1	7.7%	46	1	2.2%	3		0.0%
WIST7014	6028	275	4.6%	159	6	3.8%	563	7	1.2%	34		0.0%
WIST7015	2231	70	3.1%	61	1	1.6%	246	2	0.8%	22		0.0%
WIST7016	7353	343	4.7%	219	2	0.9%	877	14	1.6%	74	2	2.7%
WIST7017	4928	296	6.0%	140	8	5.7%	481	10	2.1%	49	1	2.0%
WIST7018	1319	25	1.9%	43		0.0%	171	1	0.6%	11		0.0%
WIST7019	969	47	4.9%	23	1	4.3%	86		0.0%	5	1	20.0%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2008			2009			2010		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7020	851	52	6.1%	16		0.0%	70	1	1.4%	3		0.0%
WIST7021	1373	93	6.8%	33	1	3.0%	87	2	2.3%	11	1	9.1%
WIST7022	3122	92	2.9%	77	1	1.3%	372	3	0.8%	25		0.0%
WIST7023	3027	187	6.2%	77	2	2.6%	233	1	0.4%	15	1	6.7%
WIST7024	1535	124	8.1%	38	4	10.5%	130	2	1.5%	8		0.0%
WIST7025	1586	78	4.9%	45	1	2.2%	148		0.0%	11		0.0%
WIST7026	1189	139	11.7%	42	3	7.1%	65	4	6.2%	9	1	11.1%
WIST7027	4601	517	11.2%	139	3	2.2%	229	4	1.7%	32		0.0%
WIST7030	5109	335	6.6%	136	5	3.7%	470	6	1.3%	37		0.0%
WIST7031	1411	60	4.3%	40	1	2.5%	183	2	1.1%	14		0.0%
WIST7032	2334	256	11.0%	52	2	3.8%	161	6	3.7%	20		0.0%
WIST7033	4434	344	7.8%	96	2	2.1%	310	6	1.9%	14		0.0%
WIST7034	1868	104	5.6%	46	3	6.5%	172	1	0.6%	9	1	11.1%
WIST7036	5641	452	8.0%	125	3	2.4%	402	8	2.0%	40		0.0%
WIST7037	411	27	6.6%	9		0.0%	46	1	2.2%	2		0.0%
WIST7038	514	45	8.8%	9	1	11.1%	44	3	6.8%	4		0.0%
WIST7039	1734	75	4.3%	43		0.0%	208	4	1.9%	10		0.0%
WIST7040	3301	154	4.7%	80	1	1.3%	378	3	0.8%	28		0.0%
WIST7041	3838	180	4.7%	111	3	2.7%	416	1	0.2%	21	2	9.5%
WIST7042	6801	261	3.8%	172	4	2.3%	751	11	1.5%	56		0.0%
WIST7043	2383	83	3.5%	58	1	1.7%	268	3	1.1%	11		0.0%
WIST7044	4395	166	3.8%	101	2	2.0%	487	6	1.2%	29		0.0%
WIST7045	3356	151	4.5%	100		0.0%	376	4	1.1%	26		0.0%
WIST7046	2569	273	10.6%	69	4	5.8%	154	1	0.6%	11		0.0%
WIST7049	3744	125	3.3%	109	1	0.9%	442	2	0.5%	29		0.0%
WIST7052	7084	316	4.5%	193	5	2.6%	782	9	1.2%	50		0.0%
WIST7053	1863	88	4.7%	36	1	2.8%	183	4	2.2%	10		0.0%
WIST7054	1590	38	2.4%	48		0.0%	142	1	0.7%	10		0.0%
WIST7055	4640	237	5.1%	96	3	3.1%	419	5	1.2%	13	1	7.7%
WIST7056	4089	172	4.2%	117	2	1.7%	390	2	0.5%	32		0.0%
WIST7057	2402	93	3.9%	68	2	2.9%	291		0.0%	15		0.0%
WIST7060	2448	130	5.3%	53	2	3.8%	216	1	0.5%	9		0.0%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2008			2009			2010		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7061	1377	70	5.1%	43	1	2.3%	131	1	0.8%	13		0.0%
WIST7062	4102	167	4.1%	97	4	4.1%	399	7	1.8%	26		0.0%
WIST7065	4439	259	5.8%	102	2	2.0%	322	3	0.9%	25		0.0%
WIST7066	1733	77	4.4%	41	1	2.4%	197		0.0%	5		0.0%
WIST7067	1643	74	4.5%	41		0.0%	170		0.0%	12		0.0%
WIST7068	2857	61	2.1%	86		0.0%	322		0.0%	27		0.0%
WIST7069	7950	367	4.6%	222	2	0.9%	930	10	1.1%	61	2	3.3%
WIST7070	2335	87	3.7%	58		0.0%	273	3	1.1%	17		0.0%
WIST7071	3140	131	4.2%	68	2	2.9%	327	1	0.3%	19		0.0%
WIST7072	3318	146	4.4%	89	1	1.1%	369	3	0.8%	20	2	10.0%
WIST7073	3572	261	7.3%	107	3	2.8%	325	6	1.8%	27		0.0%
WIST7074	9671	967	10.0%	250	6	2.4%	369	9	2.4%	31	2	6.5%
WIST7075	3198	100	3.1%	56	1	1.8%	331	5	1.5%	18		0.0%
WIST7076	6310	243	3.9%	140	1	0.7%	720	2	0.3%	49	1	2.0%
WIST7078	4179	143	3.4%	99	2	2.0%	453	4	0.9%	38		0.0%
WIST7079	2101	234	11.1%	68		0.0%	118	6	5.1%	12	1	8.3%
WIST7080	4527	183	4.0%	136		0.0%	470	4	0.9%	29		0.0%
WIST7081	5521	372	6.7%	166	2	1.2%	497	5	1.0%	54		0.0%
WIST7083	8795	344	3.9%	261	5	1.9%	892	11	1.2%	62		0.0%
WIST7084	1116	36	3.2%	29	2	6.9%	141	2	1.4%	4		0.0%
WIST7086	1151	36	3.1%	41		0.0%	140	2	1.4%	15		0.0%
WIST7087	2981	234	7.8%	62	3	4.8%	234	5	2.1%	7		0.0%
WIST7088	1734	118	6.8%	53	4	7.5%	155	3	1.9%	8		0.0%
WIST7090	1519	58	3.8%	37	1	2.7%	173	1	0.6%	10		0.0%
WIST7091	832	40	4.8%	29	2	6.9%	83	2	2.4%	8		0.0%
WIST7092	1697	81	4.8%	51	1	2.0%	205	2	1.0%	9		0.0%
WIST7093	3214	109	3.4%	87	2	2.3%	365	7	1.9%	26		0.0%
WIST7094	4085	156	3.8%	111		0.0%	474	7	1.5%	28		0.0%
WIST7095	1749	46	2.6%	38	1	2.6%	227	1	0.4%	17		0.0%
WIST7098	4127	185	4.5%	129	3	2.3%	463	10	2.2%	36	2	5.6%
WIST7103	4044	173	4.3%	84		0.0%	406	8	2.0%	25		0.0%
WIST7104	2508	176	7.0%	91	2	2.2%	215	3	1.4%	30	1	3.3%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2008			2009			2010		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7106	4753	78	1.6%	151	2	1.3%	820	2	0.2%	72		0.0%
WIST7108	7251	396	5.5%	176	5	2.8%	612	10	1.6%	31	1	3.2%
WIST7109	5089	302	5.9%	144	6	4.2%	476	8	1.7%	35		0.0%
WIST7111	5518	502	9.1%	159	5	3.1%	328	9	2.7%	35	1	2.9%
WIST7112	3749	259	6.9%	118	4	3.4%	356	10	2.8%	23	1	4.3%
WIST7113	2941	135	4.6%	74	1	1.4%	282	3	1.1%	29		0.0%
WIST7114	1267	72	5.7%	16		0.0%	94	1	1.1%	6		0.0%
WIST7115	192	2	1.0%	3		0.0%	21		0.0%	2		0.0%
WIST7116	3381	105	3.1%	103		0.0%	405	5	1.2%	29	1	3.4%
WIST7117	4288	241	5.6%	108	6	5.6%	405	4	1.0%	22		0.0%
WIST7118	1525	96	6.3%	17	1	5.9%	148		0.0%	13		0.0%
WIST7119	1775	72	4.1%	34		0.0%	243	4	1.6%	12		0.0%
WIST7120	764	86	11.3%	23	2	8.7%	60	1	1.7%	7	1	14.3%
WIST7121	942	22	2.3%	39		0.0%	134	2	1.5%	13		0.0%
WIST7122	10	1	10.0%	1		0.0%	1		0.0%			#DIV/0!
WIST8001	1384	50	3.6%	46	1	2.2%	153		0.0%	14		0.0%
WIST8002	5465	209	3.8%	154	2	1.3%	657	12	1.8%	51	1	2.0%
WIST8003	91	38	41.8%	1	1	100.0%			#DIV/0!	11	5	45.5%
WIST8004	6999	832	11.9%	178	7	3.9%	250	7	2.8%	21		0.0%
WIST8005	3423	247	7.2%	116	6	5.2%	331	10	3.0%	26		0.0%
WIST8006	9792	542	5.5%	296	8	2.7%	1161	16	1.4%	100	1	1.0%
WIST8007	2702	135	5.0%	73	4	5.5%	317	9	2.8%	15		0.0%
WIST8008	1466	157	10.7%	33		0.0%	107	1	0.9%	12		0.0%
WIST8009	149	4	2.7%	9		0.0%	13	1	7.7%	3		0.0%
WIST8010	128	8	6.3%	7	1	14.3%	11		0.0%	2	1	50.0%
WIST8011	235	11	4.7%	18		0.0%	14		0.0%	11		0.0%
WISTT001	3191	132	4.1%	112	1	0.9%	384	4	1.0%	29		0.0%
WISTT002	3301	339	10.3%	76	3	3.9%	199	2	1.0%	11		0.0%
WISTT003	4218	424	10.1%	100	4	4.0%	286	6	2.1%	34		0.0%
WISTT005	2544	118	4.6%	68	1	1.5%	281	2	0.7%	19		0.0%
WISTT006	3022	133	4.4%	77	2	2.6%	261	2	0.8%	16		0.0%
Grand Tota	611851	34331	5.6%	16563	385	2.3%	59809	829	1.4%	4508	71	1.6%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2011			2012			2013		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST1002	2083	169	8.1%	68		0.0%			#DIV/0!	4		0.0%
WIST1003	1201	32	2.7%	144	1	0.7%	6		0.0%	3		0.0%
WIST1006	3409	81	2.4%	503		0.0%	31		0.0%	10	1	10.0%
WIST1011	908	33	3.6%	107	1	0.9%	1		0.0%			#DIV/0!
WIST1012	714	27	3.8%	58		0.0%	4		0.0%			#DIV/0!
WIST1013	2326	89	3.8%	318	2	0.6%	12	1	8.3%	1		0.0%
WIST1014	3388	197	5.8%	302	2	0.7%	15		0.0%	2		0.0%
WIST1015	5861	218	3.7%	850	2	0.2%	51		0.0%	1		0.0%
WIST1016	136	10	7.4%	12		0.0%	1		0.0%			#DIV/0!
WIST2001	4022	182	4.5%	396	5	1.3%	29		0.0%	6		0.0%
WIST2003	2462	108	4.4%	322	2	0.6%	15		0.0%	3		0.0%
WIST2006	257	9	3.5%	26		0.0%			#DIV/0!			#DIV/0!
WIST2014	5517	595	10.8%	287	4	1.4%	15		0.0%	13		0.0%
WIST2015	2563	72	2.8%	369	2	0.5%	18		0.0%	9		0.0%
WIST2016	3168	285	9.0%	311	5	1.6%	16		0.0%			#DIV/0!
WIST2017	2357	89	3.8%	463	3	0.6%	20		0.0%	3		0.0%
WIST2018	5024	239	4.8%	625	5	0.8%	19	1	5.3%	2		0.0%
WIST2019	965	56	5.8%	70	1	1.4%	2		0.0%	9		0.0%
WIST2020	5133	217	4.2%	817	10	1.2%	49		0.0%	9		0.0%
WIST2021	22	0	0.0%	4	0	0.0%	1	0	0.0%		0	#DIV/0!
WIST3003	1194	63	5.3%	118	3	2.5%	9		0.0%	1		0.0%
WIST3004	2596	105	4.0%	394	1	0.3%	30		0.0%	4		0.0%
WIST3005	3704	136	3.7%	551	4	0.7%	24		0.0%	1		0.0%
WIST3006	1498	75	5.0%	137	2	1.5%	5		0.0%	1		0.0%
WIST3007	1548	56	3.6%	318	2	0.6%	2		0.0%	4		0.0%
WIST3013	3831	261	6.8%	430	8	1.9%	23		0.0%	15		0.0%
WIST3014	1660	111	6.7%	96	1	1.0%	8		0.0%	2		0.0%
WIST3016	3655	297	8.1%	308	1	0.3%	15		0.0%	6	1	16.7%
WIST3017	2585	148	5.7%	404	1	0.2%	27		0.0%			#DIV/0!
WIST3018	592	65	11.0%	36	1	2.8%	2		0.0%			#DIV/0!
WIST3019	35	2	5.7%	4		0.0%	1		0.0%			#DIV/0!
WIST4002	987	45	4.6%	109		0.0%	5		0.0%	2		0.0%

40 CFR Part 51.366 (a)(4)
Initial Test Failure by MY and Station

Station ID	All Initial Tests			2011			2012			2013		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST4003	3858	188	4.9%	396	2	0.5%	17		0.0%	2		0.0%
WIST4004	2999	128	4.3%	334	1	0.3%	14		0.0%	1		0.0%
WIST4006	6877	225	3.3%	914	1	0.1%	66		0.0%	6	1	16.7%
WIST4009	2064	82	4.0%	230	1	0.4%	10		0.0%	2		0.0%
WIST4011	5472	212	3.9%	863	3	0.3%	31		0.0%	6		0.0%
WIST4014	923	42	4.6%	95		0.0%	3		0.0%	1		0.0%
WIST4017	3693	153	4.1%	433		0.0%	29		0.0%	5		0.0%
WIST4019	1607	78	4.9%	100		0.0%	5		0.0%			#DIV/0!
WIST4024	3234	84	2.6%	368	1	0.3%	14		0.0%	4		0.0%
WIST4026	1805	61	3.4%	295	2	0.7%	10		0.0%	5	1	20.0%
WIST4031	2974	186	6.3%	213	1	0.5%	12		0.0%	1		0.0%
WIST4032	5091	713	14.0%	241	1	0.4%	11		0.0%	5		0.0%
WIST4036	2456	61	2.5%	474	5	1.1%	7		0.0%	3		0.0%
WIST4039	1564	57	3.6%	212		0.0%	7		0.0%	1		0.0%
WIST4040	2079	55	2.6%	271	2	0.7%	15		0.0%	1		0.0%
WIST4041	279	22	7.9%	23	1	4.3%			#DIV/0!			#DIV/0!
WIST4042	3495	278	8.0%	168		0.0%	11		0.0%	4		0.0%
WIST4043	7494	480	6.4%	402	2	0.5%	19		0.0%	7		0.0%
WIST4044	4339	405	9.3%	394	2	0.5%	16		0.0%	2		0.0%
WIST4045	2080	100	4.8%	230	1	0.4%	10		0.0%	2		0.0%
WIST4046	2160	119	5.5%	202		0.0%	10		0.0%			#DIV/0!
WIST4047	1135	132	11.6%	86	4	4.7%	6		0.0%			#DIV/0!
WIST4048	759	43	5.7%	99	1	1.0%	8		0.0%	1		0.0%
WIST4049	489	19	3.9%	51		0.0%	2		0.0%			#DIV/0!
WIST4050	112	6	5.4%	22		0.0%	10		0.0%			#DIV/0!
WIST4051	178	14	7.9%	9		0.0%	5		0.0%			#DIV/0!
WIST5001	3182	149	4.7%	430	1	0.2%	5		0.0%	4		0.0%
WIST5003	2580	171	6.6%	254		0.0%	4		0.0%	9		0.0%
WIST5004	2794	135	4.8%	332		0.0%	8		0.0%	2		0.0%
WIST5005	2079	107	5.1%	145	1	0.7%	4		0.0%	1		0.0%
WIST5007	1014	41	4.0%	91	1	1.1%	9		0.0%	2		0.0%
WIST5008	7912	381	4.8%	696	2	0.3%	33		0.0%	4		0.0%

40 CFR Part 51.366 (a)(4)
Initial Test Failure by MY and Station

Station ID	All Initial Tests			2011			2012			2013		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST5009	1342	50	3.7%	210	2	1.0%	13		0.0%	2		0.0%
WIST5011	3026	91	3.0%	480	1	0.2%	28		0.0%	4		0.0%
WIST5012	3077	123	4.0%	329		0.0%	7		0.0%	2		0.0%
WIST5014	7383	336	4.6%	1040	5	0.5%	46		0.0%	7		0.0%
WIST5015	2876	280	9.7%	199	2	1.0%	9		0.0%	1		0.0%
WIST5017	1676	79	4.7%	164		0.0%	6		0.0%	1		0.0%
WIST5021	1178	59	5.0%	115	2	1.7%	6		0.0%	1		0.0%
WIST5022	3959	482	12.2%	208	2	1.0%	3		0.0%			#DIV/0!
WIST5023	711	35	4.9%	71	1	1.4%	4		0.0%			#DIV/0!
WIST5026	23	2	8.7%			#DIV/0!			#DIV/0!			#DIV/0!
WIST5028	2459	108	4.4%	262	1	0.4%	9		0.0%	6		0.0%
WIST5029	6158	252	4.1%	883	2	0.2%	39		0.0%	13		0.0%
WIST5036	1114	106	9.5%	43	1	2.3%	5		0.0%	2		0.0%
WIST5037	1597	51	3.2%	180		0.0%	6		0.0%	1		0.0%
WIST5040	1147	58	5.1%	107		0.0%	6		0.0%	4		0.0%
WIST5041	1280	35	2.7%	160	1	0.6%	11		0.0%	1		0.0%
WIST5043	423	23	5.4%	28		0.0%	1		0.0%	1		0.0%
WIST5044	729	22	3.0%	127	2	1.6%	11		0.0%	2		0.0%
WIST5045	1155	51	4.4%	142	2	1.4%			#DIV/0!			#DIV/0!
WIST5047	755	35	4.6%	56	1	1.8%	5		0.0%			#DIV/0!
WIST5049	3029	108	3.6%	335	4	1.2%	15		0.0%	2		0.0%
WIST5050	299	14	4.7%	57		0.0%	1		0.0%			#DIV/0!
WIST5052	1116	62	5.6%	135	1	0.7%	5		0.0%	1		0.0%
WIST5053	1031	26	2.5%	66		0.0%	2		0.0%			#DIV/0!
WIST5055	4830	313	6.5%	390	2	0.5%	20		0.0%	4		0.0%
WIST5056	899	61	6.8%	37		0.0%	7		0.0%	1		0.0%
WIST5058	1737	112	6.4%	148	1	0.7%	9		0.0%	1		0.0%
WIST5061	2182	95	4.4%	170		0.0%	8		0.0%	1		0.0%
WIST5066	3675	228	6.2%	303		0.0%	11		0.0%	2		0.0%
WIST5067	1537	45	2.9%	207	1	0.5%			#DIV/0!	1		0.0%
WIST5068	2097	90	4.3%	314	2	0.6%	5		0.0%	2		0.0%
WIST5069	4184	545	13.0%	199	3	1.5%	10		0.0%	3		0.0%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2011			2012			2013		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST5070	1672	132	7.9%	149	2	1.3%	8		0.0%			#DIV/0!
WIST5071	3465	236	6.8%	380	1	0.3%	15		0.0%	6		0.0%
WIST5072	452	28	6.2%	34		0.0%	3		0.0%	1		0.0%
WIST5073	56	7	12.5%	3		0.0%	4		0.0%			#DIV/0!
WIST6001	7224	575	8.0%	539	5	0.9%	28		0.0%	6		0.0%
WIST6004	5264	192	3.6%	641	5	0.8%	33		0.0%	3		0.0%
WIST6007	1367	41	3.0%	118		0.0%	2		0.0%			#DIV/0!
WIST6012	1401	98	7.0%	152	2	1.3%	4		0.0%	1		0.0%
WIST6013	1735	76	4.4%	194	1	0.5%	12		0.0%	1		0.0%
WIST6014	1344	74	5.5%	99		0.0%	2		0.0%	1		0.0%
WIST6016	2841	142	5.0%	282	1	0.4%	18		0.0%	3		0.0%
WIST6018	3999	281	7.0%	296	3	1.0%	13		0.0%	7		0.0%
WIST6021	1608	59	3.7%	197	1	0.5%	5		0.0%			#DIV/0!
WIST6022	3337	81	2.4%	402	1	0.2%	15		0.0%	4		0.0%
WIST6026	174	7	4.0%	28		0.0%	4		0.0%	3		0.0%
WIST6027	1796	103	5.7%	291	3	1.0%	29	1	3.4%	1		0.0%
WIST6028	250	23	9.2%	15		0.0%	2		0.0%			#DIV/0!
WIST6029	590	39	6.6%	74	1	1.4%	9		0.0%			#DIV/0!
WIST6030	124	7	5.6%	14		0.0%	4	1	25.0%			#DIV/0!
WIST7003	6059	384	6.3%	609	1	0.2%	28		0.0%	6		0.0%
WIST7004	3889	299	7.7%	366		0.0%	19		0.0%	4		0.0%
WIST7006	1032	34	3.3%	145		0.0%	13		0.0%			#DIV/0!
WIST7007	1302	58	4.5%	148	1	0.7%	4		0.0%	1		0.0%
WIST7009	3379	163	4.8%	357	2	0.6%	19		0.0%	6		0.0%
WIST7011	3000	208	6.9%	236	1	0.4%	11		0.0%	2		0.0%
WIST7012	478	23	4.8%	45		0.0%	1		0.0%			#DIV/0!
WIST7014	6028	275	4.6%	668	2	0.3%	27		0.0%	8		0.0%
WIST7015	2231	70	3.1%	261	1	0.4%	16	1	6.3%	2		0.0%
WIST7016	7353	343	4.7%	979	5	0.5%	41		0.0%	9		0.0%
WIST7017	4928	296	6.0%	462	5	1.1%	24		0.0%	4		0.0%
WIST7018	1319	25	1.9%	183		0.0%	20		0.0%	5		0.0%
WIST7019	969	47	4.9%	87		0.0%	6		0.0%	2		0.0%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2011			2012			2013		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7020	851	52	6.1%	88	1	1.1%	3		0.0%			#DIV/0!
WIST7021	1373	93	6.8%	96	1	1.0%	3		0.0%	1		0.0%
WIST7022	3122	92	2.9%	458		0.0%	14		0.0%	1		0.0%
WIST7023	3027	187	6.2%	189	2	1.1%	8		0.0%	1		0.0%
WIST7024	1535	124	8.1%	123		0.0%	9		0.0%	2		0.0%
WIST7025	1586	78	4.9%	179		0.0%	8		0.0%	1		0.0%
WIST7026	1189	139	11.7%	53		0.0%	1		0.0%	1		0.0%
WIST7027	4601	517	11.2%	164	1	0.6%	5		0.0%	3		0.0%
WIST7030	5109	335	6.6%	467	3	0.6%	15		0.0%	1		0.0%
WIST7031	1411	60	4.3%	204		0.0%	5		0.0%	3		0.0%
WIST7032	2334	256	11.0%	119	2	1.7%	6		0.0%			#DIV/0!
WIST7033	4434	344	7.8%	284	3	1.1%	19		0.0%	1		0.0%
WIST7034	1868	104	5.6%	172		0.0%	2		0.0%	1		0.0%
WIST7036	5641	452	8.0%	422	2	0.5%	19		0.0%	5		0.0%
WIST7037	411	27	6.6%	37		0.0%			#DIV/0!	1		0.0%
WIST7038	514	45	8.8%	39		0.0%	2		0.0%	1		0.0%
WIST7039	1734	75	4.3%	217	3	1.4%	11		0.0%	3		0.0%
WIST7040	3301	154	4.7%	391	4	1.0%	19		0.0%	2		0.0%
WIST7041	3838	180	4.7%	401	2	0.5%	18		0.0%	4		0.0%
WIST7042	6801	261	3.8%	745	1	0.1%	33		0.0%	8		0.0%
WIST7043	2383	83	3.5%	312	2	0.6%	9		0.0%	1		0.0%
WIST7044	4395	166	3.8%	496	3	0.6%	30		0.0%	2		0.0%
WIST7045	3356	151	4.5%	449		0.0%	24		0.0%	1		0.0%
WIST7046	2569	273	10.6%	110	3	2.7%	4		0.0%	1		0.0%
WIST7049	3744	125	3.3%	511		0.0%	26		0.0%			#DIV/0!
WIST7052	7084	316	4.5%	915	10	1.1%	34	1	2.9%	15		0.0%
WIST7053	1863	88	4.7%	167	2	1.2%	11		0.0%	1		0.0%
WIST7054	1590	38	2.4%	173		0.0%	5		0.0%	2		0.0%
WIST7055	4640	237	5.1%	418		0.0%	20		0.0%	3		0.0%
WIST7056	4089	172	4.2%	399	2	0.5%	19		0.0%	7		0.0%
WIST7057	2402	93	3.9%	335		0.0%	9	1	11.1%	5		0.0%
WIST7060	2448	130	5.3%	259	2	0.8%			#DIV/0!	1		0.0%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2011			2012			2013		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7061	1377	70	5.1%	127	1	0.8%	10		0.0%			#DIV/0!
WIST7062	4102	167	4.1%	421	1	0.2%	30		0.0%	1		0.0%
WIST7065	4439	259	5.8%	300	2	0.7%	16		0.0%	3		0.0%
WIST7066	1733	77	4.4%	239	2	0.8%	1		0.0%	1		0.0%
WIST7067	1643	74	4.5%	182	1	0.5%	8		0.0%	1		0.0%
WIST7068	2857	61	2.1%	403		0.0%	8		0.0%	2		0.0%
WIST7069	7950	367	4.6%	995	4	0.4%	48		0.0%	14	1	7.1%
WIST7070	2335	87	3.7%	306	1	0.3%	17		0.0%	4		0.0%
WIST7071	3140	131	4.2%	339		0.0%	15		0.0%	4		0.0%
WIST7072	3318	146	4.4%	380		0.0%	23		0.0%	1		0.0%
WIST7073	3572	261	7.3%	329	2	0.6%	7		0.0%	2		0.0%
WIST7074	9671	967	10.0%	214	4	1.9%	9	1	11.1%	1		0.0%
WIST7075	3198	100	3.1%	313	2	0.6%	14		0.0%	3		0.0%
WIST7076	6310	243	3.9%	782	5	0.6%	30		0.0%	6	1	16.7%
WIST7078	4179	143	3.4%	571		0.0%	19		0.0%	6		0.0%
WIST7079	2101	234	11.1%	118	3	2.5%	7		0.0%	4		0.0%
WIST7080	4527	183	4.0%	571	5	0.9%	25		0.0%			#DIV/0!
WIST7081	5521	372	6.7%	425	1	0.2%	23		0.0%	7		0.0%
WIST7083	8795	344	3.9%	1009	2	0.2%	75		0.0%	5		0.0%
WIST7084	1116	36	3.2%	184		0.0%			#DIV/0!			#DIV/0!
WIST7086	1151	36	3.1%	195		0.0%	11		0.0%	2		0.0%
WIST7087	2981	234	7.8%	193	1	0.5%	2		0.0%	3		0.0%
WIST7088	1734	118	6.8%	148	3	2.0%	6		0.0%			#DIV/0!
WIST7090	1519	58	3.8%	152		0.0%	9		0.0%			#DIV/0!
WIST7091	832	40	4.8%	83		0.0%	3		0.0%	1		0.0%
WIST7092	1697	81	4.8%	227	1	0.4%	7		0.0%	1		0.0%
WIST7093	3214	109	3.4%	372	1	0.3%	23		0.0%	2		0.0%
WIST7094	4085	156	3.8%	568	4	0.7%	24		0.0%	3		0.0%
WIST7095	1749	46	2.6%	198		0.0%	10		0.0%	1		0.0%
WIST7098	4127	185	4.5%	435	2	0.5%	19		0.0%	4		0.0%
WIST7103	4044	173	4.3%	420	5	1.2%	19		0.0%	2		0.0%
WIST7104	2508	176	7.0%	212	3	1.4%	11		0.0%	4		0.0%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2011			2012			2013		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7106	4753	78	1.6%	736	1	0.1%	31		0.0%	9		0.0%
WIST7108	7251	396	5.5%	674	7	1.0%	26		0.0%	4		0.0%
WIST7109	5089	302	5.9%	446	3	0.7%	42		0.0%	4		0.0%
WIST7111	5518	502	9.1%	275	5	1.8%	14		0.0%	3		0.0%
WIST7112	3749	259	6.9%	333	1	0.3%	16	1	6.3%	11		0.0%
WIST7113	2941	135	4.6%	333	3	0.9%	11		0.0%			#DIV/0!
WIST7114	1267	72	5.7%	101		0.0%	2		0.0%	1		0.0%
WIST7115	192	2	1.0%	25		0.0%	2		0.0%			#DIV/0!
WIST7116	3381	105	3.1%	541	2	0.4%	27		0.0%	3		0.0%
WIST7117	4288	241	5.6%	404	1	0.2%	17		0.0%	4		0.0%
WIST7118	1525	96	6.3%	145	3	2.1%	8		0.0%			#DIV/0!
WIST7119	1775	72	4.1%	314	5	1.6%	9		0.0%	2		0.0%
WIST7120	764	86	11.3%	42	2	4.8%	3		0.0%			#DIV/0!
WIST7121	942	22	2.3%	178	2	1.1%	33		0.0%	1		0.0%
WIST7122	10	1	10.0%	1		0.0%			#DIV/0!			#DIV/0!
WIST8001	1384	50	3.6%	201	1	0.5%	8		0.0%			#DIV/0!
WIST8002	5465	209	3.8%	764	6	0.8%	40		0.0%	10		0.0%
WIST8003	91	38	41.8%	1	1	100.0%	11	2	18.2%			#DIV/0!
WIST8004	6999	832	11.9%	171	5	2.9%	11		0.0%	7		0.0%
WIST8005	3423	247	7.2%	361	2	0.6%	11		0.0%	2		0.0%
WIST8006	9792	542	5.5%	1343	7	0.5%	56		0.0%	17	1	5.9%
WIST8007	2702	135	5.0%	331	3	0.9%	15		0.0%	1		0.0%
WIST8008	1466	157	10.7%	75	1	1.3%	4		0.0%			#DIV/0!
WIST8009	149	4	2.7%	22		0.0%	8		0.0%			#DIV/0!
WIST8010	128	8	6.3%	12		0.0%	2		0.0%			#DIV/0!
WIST8011	235	11	4.7%	27		0.0%	9		0.0%			#DIV/0!
WISTT001	3191	132	4.1%	397	4	1.0%	15		0.0%	8		0.0%
WISTT002	3301	339	10.3%	193	1	0.5%	10		0.0%			#DIV/0!
WISTT003	4218	424	10.1%	272		0.0%	15		0.0%	4		0.0%
WISTT005	2544	118	4.6%	316	1	0.3%	15		0.0%	4		0.0%
WISTT006	3022	133	4.4%	279	2	0.7%	15		0.0%	3		0.0%
Grand Tota	611851	34331	5.6%	63765	362	0.6%	3020	11	0.4%	609	7	1.1%

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2014			2015		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST1002	2083	169	8.1%			#DIV/0!			#DIV/0!
WIST1003	1201	32	2.7%			#DIV/0!			#DIV/0!
WIST1006	3409	81	2.4%	2		0.0%			#DIV/0!
WIST1011	908	33	3.6%			#DIV/0!			#DIV/0!
WIST1012	714	27	3.8%			#DIV/0!			#DIV/0!
WIST1013	2326	89	3.8%			#DIV/0!			#DIV/0!
WIST1014	3388	197	5.8%			#DIV/0!	1		0.0%
WIST1015	5861	218	3.7%	4		0.0%			#DIV/0!
WIST1016	136	10	7.4%			#DIV/0!			#DIV/0!
WIST2001	4022	182	4.5%	1		0.0%			#DIV/0!
WIST2003	2462	108	4.4%			#DIV/0!	1		0.0%
WIST2006	257	9	3.5%			#DIV/0!			#DIV/0!
WIST2014	5517	595	10.8%	3		0.0%			#DIV/0!
WIST2015	2563	72	2.8%	2		0.0%			#DIV/0!
WIST2016	3168	285	9.0%	1		0.0%	1		0.0%
WIST2017	2357	89	3.8%	1		0.0%			#DIV/0!
WIST2018	5024	239	4.8%			#DIV/0!			#DIV/0!
WIST2019	965	56	5.8%			#DIV/0!			#DIV/0!
WIST2020	5133	217	4.2%	2	1	50.0%			#DIV/0!
WIST2021	22	0	0.0%		0	#DIV/0!			#DIV/0!
WIST3003	1194	63	5.3%	1		0.0%			#DIV/0!
WIST3004	2596	105	4.0%	1		0.0%			#DIV/0!
WIST3005	3704	136	3.7%	2		0.0%	1		0.0%
WIST3006	1498	75	5.0%	2		0.0%			#DIV/0!
WIST3007	1548	56	3.6%			#DIV/0!			#DIV/0!
WIST3013	3831	261	6.8%			#DIV/0!			#DIV/0!
WIST3014	1660	111	6.7%	1		0.0%			#DIV/0!
WIST3016	3655	297	8.1%	4		0.0%			#DIV/0!
WIST3017	2585	148	5.7%	3		0.0%			#DIV/0!
WIST3018	592	65	11.0%			#DIV/0!			#DIV/0!
WIST3019	35	2	5.7%			#DIV/0!			#DIV/0!
WIST4002	987	45	4.6%			#DIV/0!	1		0.0%

40 CFR Part 51.366 (a)(4)
Initial Test Failure by MY and Station

Station ID	All Initial Tests			2014			2015		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST4003	3858	188	4.9%	1		0.0%			#DIV/0!
WIST4004	2999	128	4.3%			#DIV/0!			#DIV/0!
WIST4006	6877	225	3.3%			#DIV/0!			#DIV/0!
WIST4009	2064	82	4.0%			#DIV/0!			#DIV/0!
WIST4011	5472	212	3.9%	1		0.0%			#DIV/0!
WIST4014	923	42	4.6%			#DIV/0!			#DIV/0!
WIST4017	3693	153	4.1%	2		0.0%			#DIV/0!
WIST4019	1607	78	4.9%			#DIV/0!			#DIV/0!
WIST4024	3234	84	2.6%			#DIV/0!			#DIV/0!
WIST4026	1805	61	3.4%			#DIV/0!			#DIV/0!
WIST4031	2974	186	6.3%	1		0.0%			#DIV/0!
WIST4032	5091	713	14.0%	2		0.0%			#DIV/0!
WIST4036	2456	61	2.5%	1		0.0%			#DIV/0!
WIST4039	1564	57	3.6%	1		0.0%			#DIV/0!
WIST4040	2079	55	2.6%	1		0.0%			#DIV/0!
WIST4041	279	22	7.9%			#DIV/0!			#DIV/0!
WIST4042	3495	278	8.0%			#DIV/0!			#DIV/0!
WIST4043	7494	480	6.4%	3		0.0%			#DIV/0!
WIST4044	4339	405	9.3%	1		0.0%			#DIV/0!
WIST4045	2080	100	4.8%	1		0.0%			#DIV/0!
WIST4046	2160	119	5.5%			#DIV/0!			#DIV/0!
WIST4047	1135	132	11.6%			#DIV/0!			#DIV/0!
WIST4048	759	43	5.7%			#DIV/0!			#DIV/0!
WIST4049	489	19	3.9%			#DIV/0!			#DIV/0!
WIST4050	112	6	5.4%			#DIV/0!			#DIV/0!
WIST4051	178	14	7.9%			#DIV/0!			#DIV/0!
WIST5001	3182	149	4.7%			#DIV/0!	1		0.0%
WIST5003	2580	171	6.6%	1		0.0%	1		0.0%
WIST5004	2794	135	4.8%	1		0.0%			#DIV/0!
WIST5005	2079	107	5.1%			#DIV/0!			#DIV/0!
WIST5007	1014	41	4.0%			#DIV/0!			#DIV/0!
WIST5008	7912	381	4.8%			#DIV/0!			#DIV/0!

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2014			2015		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST5009	1342	50	3.7%			#DIV/0!			#DIV/0!
WIST5011	3026	91	3.0%	1		0.0%			#DIV/0!
WIST5012	3077	123	4.0%			#DIV/0!	1		0.0%
WIST5014	7383	336	4.6%	2		0.0%			#DIV/0!
WIST5015	2876	280	9.7%	1		0.0%			#DIV/0!
WIST5017	1676	79	4.7%			#DIV/0!			#DIV/0!
WIST5021	1178	59	5.0%	2		0.0%			#DIV/0!
WIST5022	3959	482	12.2%			#DIV/0!			#DIV/0!
WIST5023	711	35	4.9%			#DIV/0!			#DIV/0!
WIST5026	23	2	8.7%			#DIV/0!			#DIV/0!
WIST5028	2459	108	4.4%	2		0.0%	1		0.0%
WIST5029	6158	252	4.1%	4		0.0%	1		0.0%
WIST5036	1114	106	9.5%			#DIV/0!			#DIV/0!
WIST5037	1597	51	3.2%			#DIV/0!	1		0.0%
WIST5040	1147	58	5.1%			#DIV/0!			#DIV/0!
WIST5041	1280	35	2.7%	1		0.0%			#DIV/0!
WIST5043	423	23	5.4%			#DIV/0!	1		0.0%
WIST5044	729	22	3.0%	5		0.0%			#DIV/0!
WIST5045	1155	51	4.4%			#DIV/0!			#DIV/0!
WIST5047	755	35	4.6%			#DIV/0!			#DIV/0!
WIST5049	3029	108	3.6%			#DIV/0!			#DIV/0!
WIST5050	299	14	4.7%	1		0.0%			#DIV/0!
WIST5052	1116	62	5.6%			#DIV/0!			#DIV/0!
WIST5053	1031	26	2.5%			#DIV/0!			#DIV/0!
WIST5055	4830	313	6.5%			#DIV/0!			#DIV/0!
WIST5056	899	61	6.8%			#DIV/0!			#DIV/0!
WIST5058	1737	112	6.4%	1		0.0%			#DIV/0!
WIST5061	2182	95	4.4%	2		0.0%			#DIV/0!
WIST5066	3675	228	6.2%			#DIV/0!			#DIV/0!
WIST5067	1537	45	2.9%			#DIV/0!			#DIV/0!
WIST5068	2097	90	4.3%	1		0.0%	1		0.0%
WIST5069	4184	545	13.0%			#DIV/0!			#DIV/0!

40 CFR Part 51.366 (a)(4)
Initial Test Failure by MY and Station

Station ID	All Initial Tests			2014			2015		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST5070	1672	132	7.9%	1		0.0%	1		0.0%
WIST5071	3465	236	6.8%	2		0.0%			#DIV/0!
WIST5072	452	28	6.2%			#DIV/0!			#DIV/0!
WIST5073	56	7	12.5%	1		0.0%			#DIV/0!
WIST6001	7224	575	8.0%	1		0.0%			#DIV/0!
WIST6004	5264	192	3.6%	1		0.0%			#DIV/0!
WIST6007	1367	41	3.0%			#DIV/0!			#DIV/0!
WIST6012	1401	98	7.0%			#DIV/0!			#DIV/0!
WIST6013	1735	76	4.4%			#DIV/0!			#DIV/0!
WIST6014	1344	74	5.5%	1		0.0%			#DIV/0!
WIST6016	2841	142	5.0%			#DIV/0!			#DIV/0!
WIST6018	3999	281	7.0%			#DIV/0!			#DIV/0!
WIST6021	1608	59	3.7%			#DIV/0!			#DIV/0!
WIST6022	3337	81	2.4%	2		0.0%			#DIV/0!
WIST6026	174	7	4.0%			#DIV/0!			#DIV/0!
WIST6027	1796	103	5.7%			#DIV/0!	2		0.0%
WIST6028	250	23	9.2%	1		0.0%			#DIV/0!
WIST6029	590	39	6.6%	1		0.0%			#DIV/0!
WIST6030	124	7	5.6%			#DIV/0!			#DIV/0!
WIST7003	6059	384	6.3%			#DIV/0!	1		0.0%
WIST7004	3889	299	7.7%	2		0.0%			#DIV/0!
WIST7006	1032	34	3.3%	1		0.0%			#DIV/0!
WIST7007	1302	58	4.5%			#DIV/0!			#DIV/0!
WIST7009	3379	163	4.8%	1		0.0%			#DIV/0!
WIST7011	3000	208	6.9%			#DIV/0!			#DIV/0!
WIST7012	478	23	4.8%			#DIV/0!			#DIV/0!
WIST7014	6028	275	4.6%	3		0.0%			#DIV/0!
WIST7015	2231	70	3.1%			#DIV/0!			#DIV/0!
WIST7016	7353	343	4.7%	1		0.0%			#DIV/0!
WIST7017	4928	296	6.0%	3		0.0%	1		0.0%
WIST7018	1319	25	1.9%			#DIV/0!	1		0.0%
WIST7019	969	47	4.9%			#DIV/0!			#DIV/0!

40 CFR Part 51.366 (a)(4)

Initial Test Failure by MY and Station

Station ID	All Initial Tests			2014			2015		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7020	851	52	6.1%	1		0.0%			#DIV/0!
WIST7021	1373	93	6.8%			#DIV/0!			#DIV/0!
WIST7022	3122	92	2.9%			#DIV/0!	1		0.0%
WIST7023	3027	187	6.2%	1		0.0%			#DIV/0!
WIST7024	1535	124	8.1%			#DIV/0!			#DIV/0!
WIST7025	1586	78	4.9%			#DIV/0!			#DIV/0!
WIST7026	1189	139	11.7%			#DIV/0!			#DIV/0!
WIST7027	4601	517	11.2%	1		0.0%			#DIV/0!
WIST7030	5109	335	6.6%	4		0.0%			#DIV/0!
WIST7031	1411	60	4.3%			#DIV/0!			#DIV/0!
WIST7032	2334	256	11.0%			#DIV/0!			#DIV/0!
WIST7033	4434	344	7.8%			#DIV/0!			#DIV/0!
WIST7034	1868	104	5.6%			#DIV/0!			#DIV/0!
WIST7036	5641	452	8.0%	2		0.0%			#DIV/0!
WIST7037	411	27	6.6%			#DIV/0!			#DIV/0!
WIST7038	514	45	8.8%			#DIV/0!			#DIV/0!
WIST7039	1734	75	4.3%			#DIV/0!	1		0.0%
WIST7040	3301	154	4.7%	1		0.0%	2		0.0%
WIST7041	3838	180	4.7%	3		0.0%			#DIV/0!
WIST7042	6801	261	3.8%			#DIV/0!			#DIV/0!
WIST7043	2383	83	3.5%			#DIV/0!			#DIV/0!
WIST7044	4395	166	3.8%	1		0.0%			#DIV/0!
WIST7045	3356	151	4.5%	2		0.0%	1		0.0%
WIST7046	2569	273	10.6%			#DIV/0!			#DIV/0!
WIST7049	3744	125	3.3%	2		0.0%	1		0.0%
WIST7052	7084	316	4.5%	3		0.0%	2		0.0%
WIST7053	1863	88	4.7%			#DIV/0!			#DIV/0!
WIST7054	1590	38	2.4%			#DIV/0!			#DIV/0!
WIST7055	4640	237	5.1%	1		0.0%			#DIV/0!
WIST7056	4089	172	4.2%	1		0.0%	1		0.0%
WIST7057	2402	93	3.9%	2		0.0%	1		0.0%
WIST7060	2448	130	5.3%			#DIV/0!			#DIV/0!

40 CFR Part 51.366 (a)(4)
Initial Test Failure by MY and Station

Station ID	All Initial Tests			2014			2015		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7061	1377	70	5.1%			#DIV/0!			#DIV/0!
WIST7062	4102	167	4.1%			#DIV/0!			#DIV/0!
WIST7065	4439	259	5.8%			#DIV/0!			#DIV/0!
WIST7066	1733	77	4.4%			#DIV/0!	2		0.0%
WIST7067	1643	74	4.5%	1		0.0%			#DIV/0!
WIST7068	2857	61	2.1%	1		0.0%	1		0.0%
WIST7069	7950	367	4.6%	2		0.0%	2		0.0%
WIST7070	2335	87	3.7%			#DIV/0!			#DIV/0!
WIST7071	3140	131	4.2%	1		0.0%	1		0.0%
WIST7072	3318	146	4.4%			#DIV/0!			#DIV/0!
WIST7073	3572	261	7.3%	2		0.0%			#DIV/0!
WIST7074	9671	967	10.0%			#DIV/0!			#DIV/0!
WIST7075	3198	100	3.1%	2		0.0%			#DIV/0!
WIST7076	6310	243	3.9%	3		0.0%			#DIV/0!
WIST7078	4179	143	3.4%			#DIV/0!	1		0.0%
WIST7079	2101	234	11.1%			#DIV/0!			#DIV/0!
WIST7080	4527	183	4.0%			#DIV/0!			#DIV/0!
WIST7081	5521	372	6.7%	1		0.0%			#DIV/0!
WIST7083	8795	344	3.9%	1		0.0%			#DIV/0!
WIST7084	1116	36	3.2%	1		0.0%			#DIV/0!
WIST7086	1151	36	3.1%			#DIV/0!			#DIV/0!
WIST7087	2981	234	7.8%			#DIV/0!			#DIV/0!
WIST7088	1734	118	6.8%			#DIV/0!	1		0.0%
WIST7090	1519	58	3.8%	1		0.0%			#DIV/0!
WIST7091	832	40	4.8%			#DIV/0!			#DIV/0!
WIST7092	1697	81	4.8%			#DIV/0!			#DIV/0!
WIST7093	3214	109	3.4%			#DIV/0!			#DIV/0!
WIST7094	4085	156	3.8%			#DIV/0!			#DIV/0!
WIST7095	1749	46	2.6%			#DIV/0!			#DIV/0!
WIST7098	4127	185	4.5%			#DIV/0!			#DIV/0!
WIST7103	4044	173	4.3%			#DIV/0!			#DIV/0!
WIST7104	2508	176	7.0%	2		0.0%			#DIV/0!

40 CFR Part 51.366 (a)(4)
Initial Test Failure by MY and Station

Station ID	All Initial Tests			2014			2015		
	Total	Fail	Fail %	Total	Fail	Fail %	Total	Fail	Fail %
WIST7106	4753	78	1.6%	3		0.0%			#DIV/0!
WIST7108	7251	396	5.5%	3		0.0%			#DIV/0!
WIST7109	5089	302	5.9%	2		0.0%	1		0.0%
WIST7111	5518	502	9.1%	2	1	50.0%			#DIV/0!
WIST7112	3749	259	6.9%	1		0.0%			#DIV/0!
WIST7113	2941	135	4.6%	1		0.0%			#DIV/0!
WIST7114	1267	72	5.7%			#DIV/0!			#DIV/0!
WIST7115	192	2	1.0%			#DIV/0!			#DIV/0!
WIST7116	3381	105	3.1%	2		0.0%			#DIV/0!
WIST7117	4288	241	5.6%	2		0.0%			#DIV/0!
WIST7118	1525	96	6.3%			#DIV/0!			#DIV/0!
WIST7119	1775	72	4.1%			#DIV/0!			#DIV/0!
WIST7120	764	86	11.3%	1		0.0%			#DIV/0!
WIST7121	942	22	2.3%	1		0.0%			#DIV/0!
WIST7122	10	1	10.0%			#DIV/0!			#DIV/0!
WIST8001	1384	50	3.6%	1		0.0%			#DIV/0!
WIST8002	5465	209	3.8%	3		0.0%			#DIV/0!
WIST8003	91	38	41.8%			#DIV/0!			#DIV/0!
WIST8004	6999	832	11.9%	1		0.0%			#DIV/0!
WIST8005	3423	247	7.2%	3		0.0%			#DIV/0!
WIST8006	9792	542	5.5%	5		0.0%			#DIV/0!
WIST8007	2702	135	5.0%			#DIV/0!			#DIV/0!
WIST8008	1466	157	10.7%	2		0.0%	1		0.0%
WIST8009	149	4	2.7%			#DIV/0!			#DIV/0!
WIST8010	128	8	6.3%			#DIV/0!			#DIV/0!
WIST8011	235	11	4.7%			#DIV/0!			#DIV/0!
WISTT001	3191	132	4.1%	1		0.0%	3		0.0%
WISTT002	3301	339	10.3%			#DIV/0!			#DIV/0!
WISTT003	4218	424	10.1%	4		0.0%			#DIV/0!
WISTT005	2544	118	4.6%	3		0.0%			#DIV/0!
WISTT006	3022	133	4.4%	2		0.0%			#DIV/0!
Grand Tota	611851	34331	5.6%	178	2	1.1%	42	0	0.0%

Appendix 3(c)(2) Equipment Audits

Station	Company	Address	City	Zip	County	Total Equip Audits
WIST1002	Engine & Transmission Exchange	2727 S. 27th St.	Milwaukee	53215	Milwaukee	12
WIST1003	Allenton Service	5908 Hillcrest Dr.	Allenton	53002	Washington	24
WIST1006	Schlossmann's Honda City	3450 South 108th St.	Greenfield	53227	Milwaukee	12
WIST1011	Lynch Truck Center	29000 Sharon Lane	Waterford	53185	Racine	6
WIST1012	Butler Auto Body	4830 N. 125th St.	Butler	53007	Waukesha	33
WIST1013	Mobil 1 Lube Express #12	W156 N8390 Pilgrim Rd	Menomonee Falls	53051	Waukesha	24
WIST1014	Mission Auto Services	1230 South West Ave	Waukesha	53186	Waukesha	15
WIST1015	Sudz Wash & Lube	N95 W18255 Appleton Avenue	Menomonee Falls	53051	Waukesha	24
WIST1016	Tenley Auto	9208 West Capitol Drive	Milwaukee	53222	Milwaukee	12
WIST2001	Braeger Chevy Inc	4100 S. 27th St	Milwaukee	53221	Milwaukee	15
WIST2003	Hartnell Chevrolet	7800 Antioch Rd. (Hwy 83)	Salem	53168	Kenosha	12
WIST2006	LaBelle Automotive (Formerly Auto Connectionz Plus)	N56 W39413 Hwy 16	Oconomowoc	53066	Waukesha	0
WIST2014	Midas Auto Service Center	3706 W. Wisconsin Ave.	Milwaukee	53208	Milwaukee	24
WIST2015	Heiser Toyota	11301 W. Metro Blvd.	Milwaukee	53224	Milwaukee	24
WIST2016	O'Reilly Motor Cars Inc	324 West Cherry St.	Milwaukee	53212	Milwaukee	18
WIST2017	Ewald Chevrolet	36833 E. Wisconsin Ave	Oconomowoc	53066	Waukesha	12
WIST2018	Fast Track Oil Change #13	1557 W Moreland Blvd	Waukesha	53186	Waukesha	12
WIST2019	Automotive Solutions	215 Klein Lane	Saukville	53080	Ozaukee	30
WIST2020	Sudz Wash & Lube	7700 W. Rawson Ave	Franklin	53132	Milwaukee	15
WIST2021	Port Washington Super Lube	1610 N Washington St	Port Washington	53074	Ozaukee	9
WIST3003	Accelerated Auto Service	667 W. State St.	Burlington	53105	Racine	12
WIST3004	Gordie Boucher Ford	8301 75th St.	Kenosha	53142	Kenosha	15
WIST3005	Gordie Boucher Ford Lincoln	3021 W. Washington St.	West Bend	53095	Washington	27
WIST3006	Martin's Automotive Services	W230 S8750 Wynn Dr	Big Bend	53103	Waukesha	12
WIST3007	Lynch Chevrolet of Kenosha	7650 75th St.	Kenosha	53142	Kenosha	15
WIST3013	John Amato Hyundai Inc.	8301 N. 76th St.	Milwaukee	53223	Milwaukee	21
WIST3014	Komp Tech Automotive Service	8832 W. Greenfield Ave.	West Allis	53214	Milwaukee	12
WIST3016	Mobil 1 Lube Express	1328 Indiana Ave.	Sheboygan	53081	Sheboygan	39
WIST3017	Valvoline	6100 N Port Washington Rd	Glendale	53212	Milwaukee	21
WIST3018	Larrys Auto	6373 North 91st Street	Milwaukee	53225	Milwaukee	21
WIST3019	Lemay Auto	8220 75th Street	Kenosha	53142	Kenosha	3
WIST3022	Fleet 1	749 W STATE ST	Milwaukee	53202	Milwaukee	0
WIST4002	Joe's Slinger Service LLC	220 Info Hwy. Crt.	Slinger	53086	Washington	24
WIST4003	Kusch's Automotive	136 N. 120th St.	Wauwatosa	53226	Milwaukee	12
WIST4004	Jim's Mobil Service Inc.	12401 W. Cleveland Ave.	New Berlin	53151	Waukesha	12
WIST4006	Newman Chevrolet	1181 Wauwatosa Rd	Cedarburg	53012	Ozaukee	24
WIST4009	Bluemound Auto Service	6000 W. Bluemound Rd	Wauwatosa	53213	Milwaukee	24
WIST4011	Jenior Tire & Automotive Service Inc.	201 S Main St.	Thiensville	53092	Ozaukee	27
WIST4014	Laubenheimer's Garage LLC	1860 Hwy 175, PO Box 36	Richfield	53076	Washington	24
WIST4017	F & F Tire World	2930 W. Rawson Ave.	Franklin	53132	Milwaukee	15

Appendix 3(c)(2) Equipment Audits

Station	Company	Address	City	Zip	County	Total Equip Audits
WIST4019	Fleet Auto Sales & Service	7400 W. National Ave.	West Allis	53214	Milwaukee	12
WIST4024	Girard's Service	5517 W. Rawson Ave.	Franklin	53132	Milwaukee	15
WIST4026	Russ Darrow Kia of Wauwatosa	1901 N. Mayfair Rd	Wauwatosa	53226	Milwaukee	24
WIST4031	R & R Automotive	6930 39th Ave.	Kenosha	53142	Kenosha	15
WIST4032	Laus Tire & Auto	5025 W. Villard Ave.	Milwaukee	53218	Milwaukee	27
WIST4036	Boucher Chevrolet, Inc.	1583 E Moreland Blvd	Waukesha	53186	Waukesha	3
WIST4039	Van Horn Dodge	3000 Eastern Ave	Plymouth	53073	Sheboygan	30
WIST4040	Ewald Venus Ford	2727 E. Layton Ave.	Cudahy	53110	Milwaukee	15
WIST4041	Hillside Auto Body & Service	1336 East Main St.	Waukesha	53186	Waukesha	3
WIST4042	Meineke Car Care Center	4320 S 27TH ST	Milwaukee	53221	Milwaukee	12
WIST4043	Fast Track Oil Change #7	4296 S 27TH ST	Milwaukee	53221	Milwaukee	12
WIST4044	Fast Track Oil Change #11	6207 W North Ave	Wauwatosa	53213	Milwaukee	21
WIST4045	Bob's Main Street Auto & Tow	1200 N Main St	West Bend	53090	Washington	33
WIST4046	Valvoline	3015 52nd St	Kenosha	53144	Kenosha	15
WIST4047	Valvoline	7028 W Capitol Dr	Milwaukee	53216	Milwaukee	18
WIST4048	West Bend Super Lube	2353 W Washington St	West Bend	53095	Washington	21
WIST4049	LaBelle Auto	N56 W39413 Hwy 16	Oconomowoc	53066	Waukesha	12
WIST4050	Rick's Car Care	6121 W Mequon Rd	Mequon	53092	Ozaukee	9
WIST4051	Kastenson Auto (formally Tenhagen Auto)	21445 Durand Ave	Union Grove	53182	Racine	0
WIST5001	Lois Tire Shop	916 Milwaukee Ave.	Burlington	53105	Racine	12
WIST5003	Russ Darrow Chrysler Jeep Dodge	7676 North 76th St	Milwaukee	53223	Milwaukee	18
WIST5004	O'Gorman's West Town Auto	7105 W. North Ave.	Wauwatosa	53213	Milwaukee	21
WIST5005	Dave's Garage Inc.	5454 W. Forest Home Ave.	Greenfield	53220	Milwaukee	12
WIST5007	Monro	N88 W15176 Main St.	Menomonee Falls	53051	Waukesha	24
WIST5008	Bob's Main Street Auto & Tow	115 W. Decorah Rd	West Bend	53095	Washington	33
WIST5009	F & F Tire World	410 N. Moorland Rd	Brookfield	53005	Waukesha	18
WIST5011	F & F Tire World	20120 Bluemound Rd.	Brookfield	53045	Waukesha	18
WIST5012	Krueger's Auto Tech Center	W61 N225 Cardinal Ave.	Cedarburg	53012	Ozaukee	27
WIST5014	Frank Boucher Chevrolet Cadillac	8600 Washington Ave.	Racine	53406	Racine	12
WIST5015	Durand Automotive Center	1623 Durand Ave.	Racine	53403	Racine	12
WIST5017	Pro Auto Center	303 E. Monroe Ave.	Hartford	53027	Washington	24
WIST5021	Monro	5930 W. Bluemound Rd	Milwaukee	53213	Milwaukee	24
WIST5022	Lindem's Auto Repair	117 E. Capitol Dr	Milwaukee	53212	Milwaukee	15
WIST5023	Russ Darrow Mitsubishi	W226 S1700 Hwy 164	Waukesha	53186	Waukesha	12
WIST5026	Bob Fish Buick GMC	2275 S. Main St.	West Bend	53095	Washington	0
WIST5028	Braeger Ford Inc	4201 S. 27th St	Milwaukee	53221	Milwaukee	12
WIST5029	Palmen Buick, GMC, Cadillac	7110 74th Place	Kenosha	53142	Kenosha	15
WIST5036	Monro	3849 S. 27th St.	Milwaukee	53221	Milwaukee	15
WIST5037	Richlonns Tire & Service Center	4440 S. 108th St.	Greenfield	53228	Milwaukee	12
WIST5040	Dads Auto Service	S98 W12575 Loomis Crt.	Muskego	53150	Waukesha	12

Appendix 3(c)(2) Equipment Audits

Station	Company	Address	City	Zip	County	Total Equip Audits
WIST5041	Falls Auto Tech	N84 W15859 Appleton Ave.	Menomonee Falls	53051	Waukesha	21
WIST5043	F & F Tire World	4671 S. 27th St.	Milwaukee	53220	Milwaukee	6
WIST5044	Russ Darrow Nissan	11212 W Metro Blvd	Milwaukee	53224	Milwaukee	21
WIST5045	Dave's Truck & 4 X 4 Repair, LLC	2993 Sherman Rd.	Jackson	53037	Washington	27
WIST5047	Monro	1212 S. 108th St.	West Allis	53214	Milwaukee	12
WIST5049	Chris Auto Service	14000 W. Greenfield Ave.	Brookfield	53005	Waukesha	12
WIST5050	Boucher Kia	8730 N. 91st St	Milwaukee	53224	Milwaukee	9
WIST5052	Jacks Auto Service Inc.	9901 Kraut Rd	Franksville	53126	Racine	15
WIST5053	Mayer Automotive LLC.	W6082 Hwy W	Cascade	53011	Sheboygan	30
WIST5055	Curriepark Auto Center	10745 W. Capitol Dr.	Wauwatosa	53222	Milwaukee	18
WIST5056	Aamco Transmission #15160 (#423)	9055 N. 76th St.	Milwaukee	53223	Milwaukee	27
WIST5058	Ruby Isle Auto	11137 W. Silver Spring Dr.	Milwaukee	53225	Milwaukee	27
WIST5061	Engine & Transmission Exchange	1604 S. West Ave.	Waukesha	53189	Waukesha	15
WIST5066	Grady's Automotive Inc.	6272 S. Packard Ave	Cudahy	53110	Milwaukee	15
WIST5067	Lynch GM Superstore	2300 Browns Lake Dr.	Burlington	53105	Racine	6
WIST5068	Brookfield Super Lube	600 Woelfel Rd	Brookfield	53045	Waukesha	15
WIST5069	Fast Track Oil Change #08	7515 W Capitol Dr	Milwaukee	53216	Milwaukee	21
WIST5070	Tender Car Care	1825 S Kinnickinnic Ave	Milwaukee	53204	Milwaukee	12
WIST5071	Fast Track Oil Change #5	5428 Washington Ave	Racine	53406	Racine	12
WIST5072	Habhegger	102 W Capitol Dr	Milwaukee	53212	Milwaukee	21
WIST5073	Valvoline	1700 E North Ave	Milwaukee	53202	Milwaukee	0
WIST6001	M & M Citgo	2101 Douglas Ave.	Racine	53402	Racine	12
WIST6004	Chuck's Main St. Auto	N64 W23876 Main St.	Sussex	53089	Waukesha	33
WIST6007	Anderson Automotive	240 Highland Dr.	Fredonia	53021	Ozaukee	33
WIST6012	Monro	7500 W. Layton Ave.	Greenfield	53220	Milwaukee	12
WIST6013	Lutter's Elmbrook Automotive	16880 Greenfield Ave.	Brookfield	53005	Waukesha	12
WIST6014	Monro	6084 S. Packard Ave.	Cudahy	53110	Milwaukee	15
WIST6016	Mertens Auto Service Center	389 Milwaukee Ave.	Burlington	53105	Racine	12
WIST6018	Paul's Bender Center	8313 22nd Ave.	Kenosha	53143	Kenosha	15
WIST6021	Maddison Automotive	210 N. Wales Rd.	Wales	53183	Waukesha	12
WIST6022	Hall Automotive	11011 W. North Ave	Milwaukee	53226	Milwaukee	21
WIST6026	Martin Ford	19215 Spring St	Union Grove	53182	Racine	12
WIST6027	Valvoline	1812 Silvernail Rd	Pewaukee	53072	Waukesha	12
WIST6028	Hands on Garage	5757 N Lovers Lane	Milwaukee	53225	Milwaukee	21
WIST6029	Valvoline	5920 21st St	Racine	53405	Racine	12
WIST6030	John Amato Ford	1015 S Main St	Mukwonago	53149	Waukesha	3
WIST7003	Anastos Motors Inc.	4513 S. Greenbay Rd	Kenosha	53144	Kenosha	15
WIST7004	Passehl's BP	4625 Taylor Ave.	Racine	53405	Racine	12
WIST7006	Russ Darrow West Bend	3210 W. Washington St.	West Bend	53095	Washington	30
WIST7007	Midas	1230 S. Green Bay Rd	Racine	53406	Racine	12

Appendix 3(c)(2) Equipment Audits

Station	Company	Address	City	Zip	County	Total Equip Audits
WIST7009	Russ Darrow Honda	9301 W. Brown Deer Rd	Milwaukee	53224	Milwaukee	24
WIST7011	Salem Auto Service	8515 Antioch Rd	Salem	53168	Kenosha	12
WIST7012	Import Specialists Inc.	2121 Ole Davidson Rd (N. Hwy 31)	Racine	53405	Racine	6
WIST7014	Oak Creek Automotive Inc.	7948 S. 27th St.	Oak Creek	53154	Milwaukee	15
WIST7015	Monro	13190 W. Capitol Dr.	Brookfield	53005	Waukesha	24
WIST7016	Hartland Services Inc.	400 Industrial Dr	Hartland	53029	Waukesha	12
WIST7017	Richlonns Tire & Service Centers	5418 Washington Ave.	Racine	53406	Racine	15
WIST7018	Ernie von Schledorn, Inc.	N88 W14167 Main St.	Menomonee Falls	53051	Waukesha	27
WIST7019	Affordable Car & Marine Firestone	12465 W. Lisbon Rd	Brookfield	53005	Waukesha	21
WIST7020	American Muffler & Automotive	5933 S. Pine St.	Burlington	53105	Racine	12
WIST7021	Expert Car Care Inc.	6803 W. National Ave.	West Allis	53214	Milwaukee	12
WIST7022	John Paul's Buick GMC	3615 S. 108th St.	Greenfield	53228	Milwaukee	12
WIST7023	Lisbon Sales & Services	7515 W. Lisbon Ave.	Milwaukee	53216	Milwaukee	18
WIST7024	Midas	4500 52nd St.	Kenosha	53144	Kenosha	15
WIST7025	Midas	N96 W18375 Hwy Q	Menomonee Falls	53052	Waukesha	27
WIST7026	Midas	6050 N. 91st St.	Milwaukee	53225	Milwaukee	9
WIST7027	Midas Auto Service Center	5811 W. Capitol Dr.	milwaukee	53216	Milwaukee	15
WIST7030	National Pride Auto	5512 75th St.	Kenosha	53142	Kenosha	15
WIST7031	Nelson's Automotive of Pewaukee	N49 W22900 Commerce Ctr. Dr.	Pewaukee	53072	Waukesha	15
WIST7032	North Avenue Firestone	4926 W. North Ave.	Milwaukee	53208	Milwaukee	24
WIST7033	Pinkalla Auto Solutions	3059 Durand Ave.	Racine	53403	Racine	12
WIST7034	Power's Tire & Auto Service	3347 Kohler Memorial Ste. 24	Sheboygan	53081	Sheboygan	27
WIST7036	Racine Auto Specialist	2320 Douglas Ave.	Racine	53402	Racine	12
WIST7037	Ralph's Auto Center Inc.	W395 N5700 Frontier Rd	Oconomowoc	53066	Waukesha	3
WIST7038	Rhode's Auto & Truck Repair	8640 Sheridan Rd	Kenosha	53143	Kenosha	6
WIST7039	Richfield Service	1810 Wolf Rd	Richfield	53076	Washington	27
WIST7040	Richlonns Tire & Service Center	S78 W18755 Janesville Rd	Muskego	53150	Waukesha	12
WIST7041	Richlonns Tire & Service Center	5131 S. 76th St.	Greendale	53129	Milwaukee	12
WIST7042	Richlonns Tire & Service Center	2480 W. Sunset Dr.	Waukesha	53189	Waukesha	12
WIST7043	River Crest Tire & Auto Service	880 Main St.	Mukwonago	53149	Waukesha	9
WIST7044	River Falls Oil & Tire	N88W15220 Main St.	Menomonee Falls	53051	Waukesha	24
WIST7045	Rivers Edge Oil & Tire	811 S. Rochester St.	Mukwonago	53149	Waukesha	12
WIST7046	Weigman's Automotive Inc	7169 W. Fond du Lac Ave.	Milwaukee	53218	Milwaukee	18
WIST7049	Russ Darrow Toyota	2700 W. Washington St.	West Bend	53095	Washington	36
WIST7052	Silver Lake Auto Service Inc.	36355 E. Wisconsin Ave.	Oconomowoc	53066	Waukesha	12
WIST7053	Silver Lake Auto Service Inc.	551 N. Cogswell Dr.	Silver Lake	53170	Kenosha	12
WIST7054	Sippl's Auto Service Inc.	N87 W17460 Main St.	Menomonee Falls	53051	Waukesha	21
WIST7055	South Milwaukee Car Care Center	1221 N. Chicago Ave.	South Milwaukee	53172	Milwaukee	15
WIST7056	Southtown Tire & Auto	2906 S. 108th St.	West Allis	53227	Milwaukee	12
WIST7057	Subaru City	4640 S. 27th St.	Milwaukee	53221	Milwaukee	12

Appendix 3(c)(2) Equipment Audits

Station	Company	Address	City	Zip	County	Total Equip Audits
WIST7060	Tenhagen Auto Service	21445 Durand Ave.	Union Grove	53182	Racine	12
WIST7061	Theel Auto Inc.	N8364 County Rd J	Elkhart Lake	53020	Sheboygan	33
WIST7062	Tires Unlimited Automotive Service	1557 N. Wisconsin St.	Port Washington	53074	Ozaukee	27
WIST7065	Twenty First Century Auto	5300 W. Forest Home Ave.	Milwaukee	53220	Milwaukee	12
WIST7066	J & N's Automotive	447 Bay View Rd	Mukwonago	53149	Waukesha	9
WIST7067	Village Tire & Auto	W172 N12185 Division Rd	Germantown	53022	Washington	27
WIST7068	Wales Super Lube #421	120 W. Summit Ave	Wales	53183	Waukesha	12
WIST7069	Silvernail Emissions Car Care & Uhaul	2210 Silvernail Rd	Pewaukee	53072	Waukesha	12
WIST7070	Weissman Automotive	W140 N10455 Fond du Lac Ave.	Germantown	53022	Washington	27
WIST7071	Welks Automotive	8333 W. Layton Ave.	Greenfield	53220	Milwaukee	12
WIST7072	Westside Auto Center	820 W. Sumner St.	Hartford	53027	Washington	24
WIST7073	Wilmot Auto Service Inc.	11307 Fox River Rd	Wilmot	53192	Kenosha	12
WIST7074	Wisconsin Muffler	3634 W. Lincoln Ave.	Milwaukee	53215	Milwaukee	12
WIST7075	Wisconsin Muffler	13320 W. College Ave.	New Berlin	53151	Waukesha	12
WIST7076	WJ Kuhn Automotive Center Inc.	8511 S. Howell Ave.	Oak Creek	53154	Milwaukee	15
WIST7078	Griffin Ford	1940 E. Main St.	Waukesha	53186	Waukesha	12
WIST7079	Koplein Tune & Lube	7960 N. 76th St.	Milwaukee	53223	Milwaukee	21
WIST7080	Schmit Bros Ford Lincoln	925 E. Green Bay Rd	Saukville	53080	Ozaukee	42
WIST7081	Farkas Automotive Inc.	8008 N. Sherman	Brown Deer	53209	Milwaukee	24
WIST7083	Sheboygan Chevrolet GMC Buick	3400 S. Business Dr.	Sheboygan	53081	Sheboygan	30
WIST7084	Uptown Chevrolet	1101 E. Commerce BLvd	Slinger	53086	Washington	6
WIST7086	Russ Darrow Kia of Waukesha	2141 E. Moreland Blvd	Waukesha	53186	Waukesha	12
WIST7087	Dave's American Discount Muffler	8719 Sheridan Rd	Kenosha	53142	Kenosha	15
WIST7088	Hoffman Auto & Tire	6000 49th Street	Kenosha	53144	Kenosha	15
WIST7090	Carwurx Plus	10685 W. Layton Ave.	Greenfield	53228	Milwaukee	12
WIST7091	Carwurx	6906 S. 27th ST.	Oak Creek	53154	Milwaukee	6
WIST7092	G-Brock's Auto Repair	375 E. Ottawa Ave	Dousman	53118	Waukesha	12
WIST7093	Gordon's Wheel Service	3595 N. 124 St.	Brookfield	53005	Waukesha	21
WIST7094	Muskego Tire & Auto	S73 W16610 Janesville Rd	Muskego	53150	Waukesha	12
WIST7095	National Complete Auto Care	16405 W. National Ave.	New Berlin	53151	Waukesha	12
WIST7098	Shorewood Auto Repair	1330 E. Capitol Dr.	Shorewood	53211	Milwaukee	21
WIST7103	Meyer Motors Inc.	107 Plaza Lane	Plymouth	53073	Sheboygan	30
WIST7104	Heiser Quick Motors	7800 N 76th St.	Milwaukee	53223	Milwaukee	18
WIST7106	Wilde Toyota	3225 S. 108 St.	West Allis	53227	Milwaukee	12
WIST7108	Mobil1 Lube Express	2757 Calumet Dr.	Sheboygan	53081	Sheboygan	33
WIST7109	Mobil1 Lube Express	3669 S. Taylor Dr.	Sheboygan	53081	Sheboygan	39
WIST7111	Valvoline	3360 S. 27th St.	Milwaukee	53221	Milwaukee	12
WIST7112	Valvoline	112 S. 68th St.	Milwaukee	53214	Milwaukee	12
WIST7113	Fast Track Oil Change #03	5400 S. 108th St.	Hales Corners	53130	Milwaukee	12
WIST7114	S & F (formally Cleveland Automotive)	8440 W. Cleveland Ave.	West Allis	53227	Milwaukee	6

Appendix 3(c)(2) Equipment Audits

Station	Company	Address	City	Zip	County	Total Equip Audits
WIST7115	Black Tie Auto Service	S84 W21172 Janesville Rd	Muskego	53150	WAUKESHA	12
WIST7116	Fast Track Oil Change #10	14245 W. Capitol Dr.	Brookfield	53005	Waukesha	24
WIST7117	Sudz Wash & Lube	5506 S Packard Ave	Cudahy	53110	Milwaukee	18
WIST7118	Tech Way	4004 S Kinnickinnic Ave	St Francis	53235	Milwaukee	12
WIST7119	Fast Track Oil Change #2	W62N271 Washington Ave	Cedarburg	53012	Ozaukee	24
WIST7120	Manyo Motors	909 E Locust St	Milwaukee	53212	Milwaukee	21
WIST7121	Boucher Hyundai	1583 E Moreland Blvd	Waukesha	53186	Waukesha	12
WIST7122	Valvoline	1950 Eastern Ave	Plymouth	53073	Sheboygan	3
WIST8001	Silver Lake Auto Center	N76 W30620 HWY VV	Hartland	53029	Waukesha	12
WIST8002	Fast Track Oil Change #1	15400 W National Ave	New Berlin	53151	Waukesha	12
WIST8004	National Auto Tech	630 W. National Ave	Milwaukee	53204	Milwaukee	12
WIST8005	Fast Track Oil Change #04	6942 W Brown Deer Rd	Milwaukee	53223	Milwaukee	27
WIST8006	Fast Track Oil Change # 09	5450 N Port Washington Rd	Glendale	53216	Milwaukee	33
WIST8007	Fast Track Oil Change Center #6	3130 S 108th St	West Allis	53227	Milwaukee	12
WIST8008	R.K. Motors	3700 N Holton St	Milwaukee	53212	Milwaukee	27
WIST8009	Jackson Superlube	W213N16770 Glen Brook Dr	Jackson	53037	Washington	12
WIST8010	Pope Auto	10204 W Greenfield Ave	West Allis	53214	Milwaukee	12
WIST8011	Mike's Quality Auto	457 Falcon Ridge Dr	Burlington	53105	Racine	6
WISTT001	Jerry's Auto Service Inc. (TAC)	W229 N2467 Hwy F	Waukesha	53186	Waukesha	12
WISTT002	Anaya's Auto Repair (TAC)	2515 52nd St.	Kenosha	53140	Kenosha	15
WISTT003	Auto Analyzers (TAC)	8404 W. Greenfield Ave.	West Allis	53214	Milwaukee	15
WISTT005	Schaefer Service Center (TAC)	1130 E. Commerce Blvd	Slinger	53086	Washington	21
WISTT006	Carlton Automotive Inc. (TAC)	1318 Center St., PO Box 700288	Oostburg	53070	Sheboygan	42