

FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986
P.O. Box 1200, Madison FL 32341
3980 Overseas Hwy Suite 103, Marathon FL 33050

Phone: 407-339-5984 / Fax: 407-260-6110
Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-973-6878 / Fax: 850-973-6878
Phone: 305-743-8598 / Fax: 305-743-8598

E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Golder-Jacksonville
9428 Baymeadows Rd, Suite 400
Jacksonville, FL 32256

PO #: 103-82740
Client Project #: Liberty Tires - John King
Date Sampled: May 4, 2011
May 23, 2011; Invoice: 150456

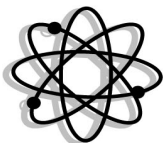
Invoice

Description	Amount	Units	Extension
EPA8270-SIM-PAH	95.00	3	285.00
TOTAL			285.00

This invoice is due upon receipt.

VISA, MasterCard, and American Express cards will be accepted.

There will be a 1.5% service charge per month on all unpaid balances.



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Report Summary

Date Received: May 5, 2011

FCL Project Manager: June S. Flowers

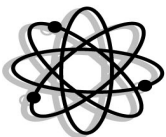
Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
150456SO1	GSB-12 0-0.5 (149459SO1)	EPA8270	CLS	Main Lab	Soil
		SM2540 B	PLB	Main Lab	
		XBNE	ACS	Main Lab	
150456SO2	GSB-14 0-0.5 (149555SO9)	EPA8270	CLS	Main Lab	Soil
		SM2540 B	PLB	Main Lab	
		XBNE	ACS	Main Lab	
150456SO3	GSB-25 0-0.5 (149555SO11)	EPA8270	CLS	Main Lab	Soil
		SM2540 B	PLB	Main Lab	
		XBNE	ACS	Main Lab	

Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.
President/Technical Director



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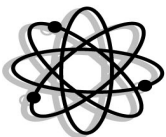
Analysis Report

Lab #: 150456SO1 Sampled: 05/04/11 04:25 PM Desc: GSB-12 0-0.5 (149459SO1)

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Base_Neutral_Extraction	30.0	g	1.00			10173808	XBNE		05/09/11
1-methyl-Naphthalene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	090-12-0	05/19/11
2-methyl-Naphthalene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	91-57-6	05/19/11
Acenaphthene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	83-32-9	05/19/11
Acenaphthylene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	208-96-8	05/19/11
Anthracene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	120-12-7	05/19/11
Benzo(a)anthracene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	56-55-3	05/19/11
Benzo(a)pyrene	440	ug/Kg	10.0	60.0	120	10174569	EPA8270	50-32-8	05/19/11
Benzo(b)fluoranthene	827	ug/Kg	10.0	60.0	120	10174569	EPA8270	205-99-2	05/19/11
Benzo(g,h,i)perylene	618	ug/Kg	10.0	60.0	120	10174569	EPA8270	191-24-2	05/19/11
Benzo(k)fluoranthene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	207-08-9	05/19/11
Chrysene	703	ug/Kg	10.0	60.0	120	10174569	EPA8270	218-01-9	05/19/11
Dibenz(a,h)anthracene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	53-70-3	05/19/11
Fluoranthene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	206-44-0	05/19/11
Fluorene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	86-73-7	05/19/11
Indeno(1,2,3-cd)pyrene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	193-39-5	05/19/11
Naphthalene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	91-20-3	05/19/11
Phenanthrene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	85-01-8	05/19/11
Pyrene	1840	ug/Kg	10.0	60.0	120	10174569	EPA8270	129-00-0	05/19/11
Surr:2-Fluorobiphenyl (21-101%)	60.56%		10.0	0.100	0.200	10174569	EPA8270	321-60-8	05/19/11
Surr:Nitrobenzene-d5 (18-106%)	42.86%		10.0	0.100	0.200	10174569	EPA8270		05/19/11
Surr:Terphenyl-d14 (43-131%)	78.23%		10.0	0.100	0.200	10174569	EPA8270		05/19/11
% Moisture	10.3	%Wt	1.00	0.000250	0.000500	10174570	SM2540 B		05/19/11

Lab #: 150456SO2 Sampled: 05/05/11 04:45 PM Desc: GSB-14 0-0.5 (149555SO9)

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Base_Neutral_Extraction	30.0	g	1.00			10173808	XBNE		05/09/11



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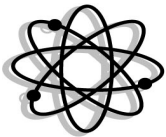
PO #: 103-82740
Client Project #: Liberty Tires - John King
Date Sampled: May 4, 2011
May 23, 2011; Invoice: 150456

Lab #: 150456SO2 **Sampled:** 05/05/11 04:45 PM **Desc:** GSB-14 0-0.5 (149555SO9)

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1-methyl-Naphthalene	30.0 U	ug/Kg	5.00	30.0	60.0	10174569	EPA8270	090-12-0	05/19/11
2-methyl-Naphthalene	30.0 U	ug/Kg	5.00	30.0	60.0	10174569	EPA8270	91-57-6	05/19/11
Acenaphthene	30.0 U	ug/Kg	5.00	30.0	60.0	10174569	EPA8270	83-32-9	05/19/11
Acenaphthylene	30.0 U	ug/Kg	5.00	30.0	60.0	10174569	EPA8270	208-96-8	05/19/11
Anthracene	30.0 U	ug/Kg	5.00	30.0	60.0	10174569	EPA8270	120-12-7	05/19/11
Benzo(a)anthracene	30.0 U	ug/Kg	5.00	30.0	60.0	10174569	EPA8270	56-55-3	05/19/11
Benzo(a)pyrene	30.0 U	ug/Kg	5.00	30.0	60.0	10174569	EPA8270	50-32-8	05/19/11
Benzo(b)fluoranthene	30.0 U	ug/Kg	5.00	30.0	60.0	10174569	EPA8270	205-99-2	05/19/11
Benzo(g,h,i)perylene	30.0 U	ug/Kg	5.00	30.0	60.0	10174569	EPA8270	191-24-2	05/19/11
Benzo(k)fluoranthene	30.0 U	ug/Kg	5.00	30.0	60.0	10174569	EPA8270	207-08-9	05/19/11
Chrysene	30.0 U	ug/Kg	5.00	30.0	60.0	10174569	EPA8270	218-01-9	05/19/11
Dibenz(a,h)anthracene	30.0 U	ug/Kg	5.00	30.0	60.0	10174569	EPA8270	53-70-3	05/19/11
Fluoranthene	30.0 U	ug/Kg	5.00	30.0	60.0	10174569	EPA8270	206-44-0	05/19/11
Fluorene	30.0 U	ug/Kg	5.00	30.0	60.0	10174569	EPA8270	86-73-7	05/19/11
Indeno(1,2,3-cd)pyrene	30.0 U	ug/Kg	5.00	30.0	60.0	10174569	EPA8270	193-39-5	05/19/11
Naphthalene	30.0 U	ug/Kg	5.00	30.0	60.0	10174569	EPA8270	91-20-3	05/19/11
Phenanthrene	30.0 U	ug/Kg	5.00	30.0	60.0	10174569	EPA8270	85-01-8	05/19/11
Pyrene	30.0 U	ug/Kg	5.00	30.0	60.0	10174569	EPA8270	129-00-0	05/19/11
Surr:2-Fluorobiphenyl (21-101%)	42.27%		5.00	0.0500	0.100	10174569	EPA8270	321-60-8	05/19/11
Surr:Nitrobenzene-d5 (18-106%)	24.81%		5.00	0.0500	0.100	10174569	EPA8270		05/19/11
Surr:Terphenyl-d14 (43-131%)	71.15%		5.00	0.0500	0.100	10174569	EPA8270		05/19/11
% Moisture	8.18	%Wt	1.00	0.000250	0.000500	10174570	SM2540 B		05/19/11

Lab #: 150456SO3 **Sampled:** 05/05/11 05:15 PM **Desc:** GSB-25 0-0.5 (149555SO11)

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Base_Neutral_Extraction	30.0	g	1.00			10173808	XBNE		05/09/11
1-methyl-Naphthalene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	090-12-0	05/19/11
2-methyl-Naphthalene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	91-57-6	05/19/11
Acenaphthene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	83-32-9	05/19/11



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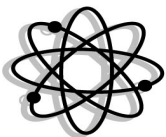
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May 23, 2011; Invoice: 150456

Lab #: 150456SO3 Sampled: 05/05/11 05:15 PM Desc: GSB-25 0-0.5 (149555SO11)

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Acenaphthylene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	208-96-8	05/19/11
Anthracene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	120-12-7	05/19/11
Benzo(a)anthracene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	56-55-3	05/19/11
Benzo(a)pyrene	1500	ug/Kg	10.0	60.0	120	10174569	EPA8270	50-32-8	05/19/11
Benzo(b)fluoranthene	2430	ug/Kg	10.0	60.0	120	10174569	EPA8270	205-99-2	05/19/11
Benzo(g,h,i)perylene	2040	ug/Kg	10.0	60.0	120	10174569	EPA8270	191-24-2	05/19/11
Benzo(k)fluoranthene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	207-08-9	05/19/11
Chrysene	2050	ug/Kg	10.0	60.0	120	10174569	EPA8270	218-01-9	05/19/11
Dibenz(a,h)anthracene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	53-70-3	05/19/11
Fluoranthene	1110	ug/Kg	10.0	60.0	120	10174569	EPA8270	206-44-0	05/19/11
Fluorene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	86-73-7	05/19/11
Indeno(1,2,3-cd)pyrene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	193-39-5	05/19/11
Naphthalene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	91-20-3	05/19/11
Phenanthrene	60.0 U	ug/Kg	10.0	60.0	120	10174569	EPA8270	85-01-8	05/19/11
Pyrene	4160	ug/Kg	10.0	60.0	120	10174569	EPA8270	129-00-0	05/19/11
Surr:2-Fluorobiphenyl (21-101%)	46.04%		10.0	0.100	0.200	10174569	EPA8270	321-60-8	05/19/11
Surr:Nitrobenzene-d5 (18-106%)	35.68%		10.0	0.100	0.200	10174569	EPA8270		05/19/11
Surr:Terphenyl-d14 (43-131%)	52.53%		10.0	0.100	0.200	10174569	EPA8270		05/19/11
% Moisture	53.8	%Wt	1.00	0.000250	0.000500	10174570	SM2540 B		05/19/11



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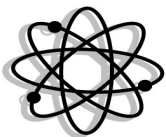
Quality Report

Quality Control Batch: 10174569

Analyst: CLS

Blank	Result	Units
Acenaphthene	6.00U	ug/Kg
Acenaphthylene	6.00U	ug/Kg
Anthracene	6.00U	ug/Kg
Benzo(a)anthracene	6.00U	ug/Kg
Benzo(a)pyrene	6.00U	ug/Kg
Benzo(b)fluoranthene	6.00U	ug/Kg
Benzo(g,h,i)perylene	6.00U	ug/Kg
Benzo(k)fluoranthene	6.00U	ug/Kg
Chrysene	6.00U	ug/Kg
Dibenz(a,h)anthracene	6.00U	ug/Kg
Fluoranthene	6.00U	ug/Kg
Fluorene	6.00U	ug/Kg
Indeno(1,2,3-cd)pyrene	6.00U	ug/Kg
Naphthalene	6.00U	ug/Kg
Phenanthrene	6.00U	ug/Kg
Pyrene	6.00U	ug/Kg
1-methyl-Naphthalene	6.00U	ug/Kg
2-methyl-Naphthalene	6.00U	ug/Kg
Surr:Nitrobenzene-d5	826	ug/Kg
Surr:Terphenyl-d14	1570	ug/Kg
Surr:2-Fluorobiphenyl	993	ug/Kg

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Acenaphthene	1140	ug/Kg	1670	68.25	70.00-130.00
Acenaphthylene	1050	ug/Kg	1670	62.98	70.00-130.00
Anthracene	1380	ug/Kg	1670	82.72	70.00-130.00



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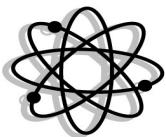
Analyst: CLS

Laboratory Control Sample

Result	Units	Spike	%REC	%REC Lim
Benzo(a)anthracene	1480 ug/Kg	1670	88.59	70.00-130.00
Benzo(a)pyrene	1410 ug/Kg	1670	84.81	70.00-130.00
Benzo(b)fluoranthene	1460 ug/Kg	1670	87.66	70.00-130.00
Benzo(g,h,i)perylene	1450 ug/Kg	1670	87.23	70.00-130.00
Benzo(k)fluoranthene	1200 ug/Kg	1670	71.91	70.00-130.00
Chrysene	1390 ug/Kg	1670	83.43	70.00-130.00
Dibenz(a,h)anthracene	1460 ug/Kg	1670	87.54	70.00-130.00
Fluoranthene	1400 ug/Kg	1670	84.18	70.00-130.00
Fluorene	1250 ug/Kg	1670	75.17	70.00-130.00
Indeno(1,2,3-cd)pyrene	1420 ug/Kg	1670	85.14	70.00-130.00
Naphthalene	932 ug/Kg	1670	55.93	22.76-100.00
Phenanthrene	1530 ug/Kg	1670	91.84	70.00-130.00
Pyrene	1570 ug/Kg	1670	94.37	70.00-130.00
1-methyl-Naphthalene	892 ug/Kg	1670	53.48	27.35-113.22
2-methyl-Naphthalene	834 ug/Kg	1670	50.04	19.08-101.21
Surr:Nitrobenzene-d5	975 ug/Kg	1670	58.51	18.52-106.57
Surr:Terphenyl-d14	1630 ug/Kg	1670	97.62	43.67-131.78
Surr:2-Fluorobiphenyl	1100 ug/Kg	1670	66.18	21.82-101.51

Matrix Spike

Result	Units	Spike	%REC	%REC Lim	Sample
Acenaphthene	764 ug/Kg	1670	45.85	70.00-130.00	30.0U
Acenaphthylene	719 ug/Kg	1670	43.11	70.00-130.00	60.0U
Anthracene	1220 ug/Kg	1670	72.94	70.00-130.00	60.0U
Benzo(a)anthracene	1570 ug/Kg	1670	94.36	70.00-130.00	30.0U
Benzo(a)pyrene	1370 ug/Kg	1670	82.35	70.00-130.00	60.0U
Benzo(b)fluoranthene	1680 ug/Kg	1670	100.96	70.00-130.00	60.0U
Benzo(g,h,i)perylene	1440 ug/Kg	1670	86.12	70.00-130.00	60.0U
Benzo(k)fluoranthene	1340 ug/Kg	1670	80.27	70.00-130.00	30.0U
Chrysene	1280 ug/Kg	1670	76.86	70.00-130.00	30.0U



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Phone: 305-743-8598 / Fax: 305-743-8598

E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Golder-Jacksonville
9428 Baymeadows Rd, Suite 400
Jacksonville, FL 32256

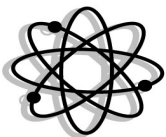
PO #: 103-82740
Client Project #: Liberty Tires - John King
Date Sampled: May 4, 2011
May 23, 2011; Invoice: 150456

Quality Control Batch: 10174569

Analyst: CLS

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Dibenz(a,h)anthracene	1500	ug/Kg	1670	89.91	70.00-130.00	30.0U
Fluoranthene	1390	ug/Kg	1670	83.37	70.00-130.00	60.0U
Fluorene	1090	ug/Kg	1670	65.66	70.00-130.00	30.0U
Indeno(1,2,3-cd)pyrene	1460	ug/Kg	1670	87.38	70.00-130.00	30.0U
Naphthalene	582	ug/Kg	1670	34.91	70.00-130.00	60.0U
Phenanthrene	1690	ug/Kg	1670	101.66	70.00-130.00	30.0U
Pyrene	1430	ug/Kg	1670	85.69	70.00-130.00	60.0U
1-methyl-Naphthalene	551	ug/Kg	1670	33.04	23.63-87.85	60.0U
2-methyl-Naphthalene	465	ug/Kg	1670	27.92	23.63-87.85	30.0U
Surr:Nitrobenzene-d5	566	ug/Kg	1670	33.94	70.00-130.00	
Surr:Terphenyl-d14	1460	ug/Kg	1670	87.70	70.00-130.00	
Surr:2-Fluorobiphenyl	634	ug/Kg	1670	38.01	70.00-130.00	

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Acenaphthene	933	ug/Kg	1670	55.98	70.00-130.00	30.0U	19.90	30.00
Acenaphthylene	923	ug/Kg	1670	55.35	70.00-130.00	60.0U	24.86	30.00
Anthracene	1230	ug/Kg	1670	73.76	70.00-130.00	60.0U	1.11	30.00
Benzo(a)anthracene	1460	ug/Kg	1670	87.40	70.00-130.00	30.0U	7.65	30.00
Benzo(a)pyrene	1350	ug/Kg	1670	81.03	70.00-130.00	60.0U	1.62	30.00
Benzo(b)fluoranthene	1650	ug/Kg	1670	98.86	70.00-130.00	60.0U	2.10	30.00
Benzo(g,h,i)perylene	1420	ug/Kg	1670	85.20	70.00-130.00	60.0U	1.07	30.00
Benzo(k)fluoranthene	1330	ug/Kg	1670	79.50	70.00-130.00	30.0U	0.97	30.00
Chrysene	1270	ug/Kg	1670	76.01	70.00-130.00	30.0U	1.11	30.00
Dibenz(a,h)anthracene	1460	ug/Kg	1670	87.32	70.00-130.00	30.0U	2.93	30.00
Fluoranthene	1330	ug/Kg	1670	79.50	70.00-130.00	60.0U	4.75	30.00
Fluorene	1110	ug/Kg	1670	66.50	70.00-130.00	30.0U	1.26	30.00
Indeno(1,2,3-cd)pyrene	1400	ug/Kg	1670	83.96	70.00-130.00	30.0U	4.00	30.00
Naphthalene	862	ug/Kg	1670	51.72	70.00-130.00	60.0U	38.80	30.00
Phenanthrene	1690	ug/Kg	1670	101.14	70.00-130.00	30.0U	0.51	30.00



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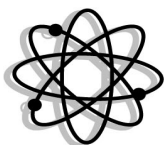
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Analyst: CLS

Matrix Spike Duplicate

	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Pyrene	1440	ug/Kg	1670	86.16	70.00-130.00	60.0U	0.55	30.00
1-methyl-Naphthalene	761	ug/Kg	1670	45.67	23.63-87.85	60.0U	32.09	30.00
2-methyl-Naphthalene	665	ug/Kg	1670	39.88	23.63-87.85	30.0U	35.28	30.00
Surr:Nitrobenzene-d5	949	ug/Kg	1670	56.95	70.00-130.00		50.62	30.00
Surr:Terphenyl-d14	1500	ug/Kg	1670	89.73	70.00-130.00		2.28	30.00
Surr:2-Fluorobiphenyl	958	ug/Kg	1670	57.46	70.00-130.00		40.74	30.00



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Narrative Report

Sample Handling

Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a dry weight basis. These samples were previously analyzed and reported for the full EPA8270 list, but due to matrix effects, extracts required dilution that elevated MDL's above SCTL's. The samples were re-logged and re-analyzed by the SIM technique.

Quality Control

Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Additional Comments

Soil SIM control limits have not been calculated for each PAH compound, so values are compared to 70-130 QC limits. Recoveries for LCS and Matrix Spikes are within current FCL control limits.

Attachments

Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	One or more QC samples associated with this data value exceeded QC limits.
J1	Surrogate recovery limits have been exceeded.
J2	No known quality control criteria exist for the component.
J3	Reported value failed to meet established quality control criteria for either precision or accuracy.
J4	Sample matrix interfered with the ability to make an accurate determination on the spiked sample.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
ZTNTC	Too numerous to count. Numeric value represents filtration volume.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.