



Ignitability Case Narrative

Cabrera Services, Inc.

DHS-EML – 07-3080.01

Work Order Number: 1108251

1. This report consists of 12 soil samples. The samples were received cool and intact by ALS on 08/18/2011.
2. The samples were prepared and analyzed based on SW-846, 3rd Edition procedures; SW-1010; and SOP 629 Rev. 11.
3. The samples were prepared and analyzed within the established hold times.
4. All calibration check criteria were met.
5. A sample duplicate was prepared and analyzed with each batch.
6. If a sample did not ignite by 96.5° Celsius, then the sample was reported at 96.5° with a "U" flag.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Mindy Norton
Mindy Norton
Organics Primary Data Reviewer

9-28-11
Date

[Signature]
Organics Final Data Reviewer

9-28-11
Date



ALS
Data Qualifier Flags
Chromatography and Mass Spectrometry

- U or ND:** This flag indicates that the compound was analyzed for but not detected.
- J:** This flag indicates an estimated value. This flag is used as follows : (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the data indicate the presence of a compound that meets the identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.
- B:** This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.
- E:** This flag identifies compounds whose concentration exceeds the upper level of the calibration range.
- A:** This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.
- X:** This flag indicates that the analyte was diluted below an accurate quantitation level.
- *:** This flag indicates that a spike recovery is outside the control criteria.
- +:** This flag indicates that the relative percent difference (RPD) exceeds the control criteria.



Chain of Custody

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1108251

Client Name: CABRERA SERVICES, INC.

Client Project Name: DHS-EML

Client Project Number: 07-3080.01

Client PO Number: 09-1281

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
SN 2	1108251-1		SOIL	16-Aug-11	10:47
SN 3	1108251-2		SOIL	16-Aug-11	13:25
SN 4	1108251-3		SOIL	17-Aug-11	10:14
SN 5	1108251-4		SOIL	16-Aug-11	10:30
SN 7	1108251-5		SOIL	17-Aug-11	12:45
SN 8	1108251-6		SOIL	16-Aug-11	11:07
SN 11	1108251-7		SOIL	16-Aug-11	12:35
SN 12	1108251-8		SOIL	17-Aug-11	12:20
SN 13	1108251-9		SOIL	17-Aug-11	11:00
SN 14	1108251-10		SOIL	17-Aug-11	10:38
SN 15	1108251-11		SOIL	16-Aug-11	11:21
SN 16	1108251-12		SOIL	16-Aug-11	13:16
TRIP BLANK	1108251-13		WATER	16-Aug-11	
SN 2	1108251-14		LEACHAT	16-Aug-11	10:47
SN 3	1108251-15		LEACHAT	16-Aug-11	13:25
SN 4	1108251-16		LEACHAT	17-Aug-11	10:14
SN 5	1108251-17		LEACHAT	16-Aug-11	10:30
SN 7	1108251-18		LEACHAT	17-Aug-11	12:45
SN 8	1108251-19		LEACHAT	16-Aug-11	11:07
SN 11	1108251-20		LEACHAT	16-Aug-11	12:35
SN 12	1108251-21		LEACHAT	17-Aug-11	12:20
SN 13	1108251-22		LEACHAT	17-Aug-11	11:00
SN 14	1108251-23		LEACHAT	17-Aug-11	10:38
SN 15	1108251-24		LEACHAT	16-Aug-11	11:21
SN 16	1108251-25		LEACHAT	16-Aug-11	13:16



ALS Global Chain-of-Custody Record

225 Commerce Drive
Fort Collins, CO 80524
Phone: (800) 443-1511

1108251

Customer Information		Project Information		Analyses / Method Requested	
Project Name	DHS 07-3080.01	Purchase Order	09-1281	A. TCLP RCRA VOCs	
Quote#		Work Order		B. TCLP RCRA SVOCs	
Company	Cabrera Services, Inc.	Bill To	Cabrera Services, Inc.	C. TCLP RCRA Metals	
Send Report To:	Nicholas Berliner	Invoice Attn:	Accounting	D. RCRA Pesticides/Herbicides (8081)	
Address:	473 Silver Lane	Address:	473 Silver Lane	E. PCBs (8082)	
City/State/Zip	East Hartford, CT 06118	City/State/Zip	East Hartford, CT 06118	F. Ignitability/corrosivity/reactivity/paint filter	
Phone	(860) 569-0095	Phone	(860) 569-0095	G. Initial gamma Spec (no ingrowth)	
Fax	(860) 569-0277	Fax	(860) 569-0277	H. Gamma Spec. (E 901.1 M)	
Shipment Method: Federal Express		Chain of Custody		I. Alpha Spec for U (ASTM D3972-90)	
Airbill Nos.: 7950 9125 3210		Required Turnaround: 30 days		J. Ra-226 by emanation (E 903.1 M)	

Relinquished by:		Relinquished by:		Date	
Nicholas Berliner					
Company Name: CABRERA SERVICES, INC.		Company Name:		Time	
Received by: <i>Lauren Chined</i>		Received by:		Date	
Company Name: ALS		Company Name:		Time	

Sx No.	Sample Description	Sample Date	Sample Time	Sample Matrix	Container Type	Preservative	No. of Bottles	A	B	C	D	E	F	G	H	I	J	Comments
1	SN 2 (1)	2011-08-16	1047	SOIL	B	ICE	2	X	X	X	X	X	X	X	X	X	X	(14)
2	SN 3 (2)	2011-08-16	1325	SOIL	B	ICE	2	X	X	X	X	X	X	X	X	X	X	(15)
3	SN 4 (3)	2011-08-17	1014	SOIL	B	ICE	2	X	X	X	X	X	X	X	X	X	X	(16)
4	SN 5 (4)	2011-08-16	1030	SOIL	B	ICE	2	X	X	X	X	X	X	X	X	X	X	(17)
5	SN 7 (5)	2011-08-17	1245	SOIL	B	ICE	2	X	X	X	X	X	X	X	X	X	X	(18)
6	SN 8 (6)	2011-08-16	1107	SOIL	B	ICE	2	X	X	X	X	X	X	X	X	X	X	(19)
7	SN 11 (7)	2011-08-16	1235	SOIL	B	ICE	2	X	X	X	X	X	X	X	X	X	X	(20)
8	SN 12 (8)	2011-08-17	1220	SOIL	B	ICE	2	X	X	X	X	X	X	X	X	X	X	(21)
9	SN 13 (9)	2011-08-17	1100	SOIL	B	ICE	2	X	X	X	X	X	X	X	X	X	X	(22)
10	SN 14 (10)	2011-08-17	1038	SOIL	B	ICE	2	X	X	X	X	X	X	X	X	X	X	(23)
11	SN 15 (11)	2011-08-16	1121	SOIL	B	ICE	2	X	X	X	X	X	X	X	X	X	X	(24)
12	SN 16 (12)	2011-08-16	1316	SOIL	B	ICE	2	X	X	X	X	X	X	X	X	X	X	(25)

of 24
 NMG 8/17/11
 B = 4-gallon-ziplock bag- 8-07 Sox | jar
 M = marinelli beaker
 Page 1 of 1



CONDITION OF SAMPLE UPON RECEIPT FORM

Client: Cabrera

Workorder No: 1108251

Project Manager: LRS

Initials: LAS Date: 8/18/11

1. Does this project require any special handling in addition to standard Paragon procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	NONE	<input checked="" type="radio"/> YES	NO
3. Are Custody seals on sample containers intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible ?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		YES	<input checked="" type="radio"/> NO *
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	<input checked="" type="radio"/> N/A	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	<input checked="" type="radio"/> N/A	YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: _____ < green pea _____ > green pea	N/A	<input checked="" type="radio"/> YES	NO
15. Do perchlorate LCMS-MS samples have headspace? (at least 1/3 of container required)	<input checked="" type="radio"/> N/A	YES	NO
16. Were samples checked for and free from the presence of residual chlorine? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	<input checked="" type="radio"/> N/A	YES	NO
17. Were the samples shipped on ice?		<input checked="" type="radio"/> YES	NO
18. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <input checked="" type="radio"/> #2 <input type="radio"/> #4		RAD ONLY	<input checked="" type="radio"/> YES <input type="radio"/> NO
Cooler #: <u>1</u>			
Temperature (°C): <u>5.0</u>			
No. of custody seals on cooler: <u>1</u>			
External µR/hr reading: <u>14</u>			
Background µR/hr reading: <u>12</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

* Trip Blank (2, 40ml vials) not listed on COC. Added as sample # 1108251-13 (bottles 1 & 2)

Proceed with analysis *[Signature]*

If applicable, was the client contacted? YES / NO / NA Contact: Micky B Date/Time: 8/22

Project Manager Signature / Date: [Signature] 8/22/11

*IR Gun #2: Oakton, SN 29922500201-0066 Form 201r22.xls (6/1/09)

*IR Gun #4: Oakton, SN 2372220101-0002

From: (860) 916-6091
Nicholas Berliner - DHS
CABRERA SERVICES
201 Varick Street
c/o Al Crescenzi, 5th floor, DHS
EAST HARTFORD, NY 10014

Origin ID: UTOA



J11201104290225

Ship Date: 17AUG11
Act/Wgt: 40.0 LB
CAD: 4239785/NET3180

Dims: 36 X 18 X 18 IN

1108251 / 14
/ -

SHIP TO: (970) 490-1511

BILL SENDER

Lance Steere
ALS Laboratories
225 COMMERCE DR

FORT COLLINS, CO 80524

Delivery Address Bar Code



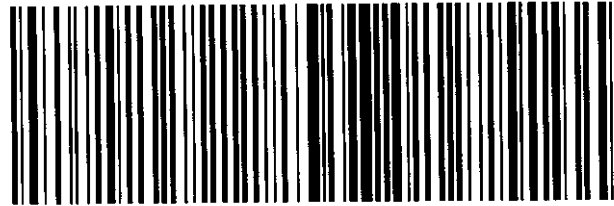
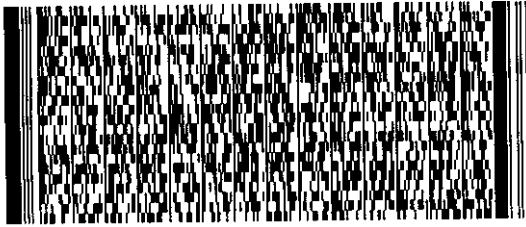
Ref # 07-3080.01 Task 005
Invoice #
PO #
Dept #

THU - 18 AUG A2
PRIORITY OVERNIGHT

TRK# 7950 9125 3210
0201

NJ FTCA

80524
CO-US
DEN



50FG1/EEE7/F5F4

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S.O.



Analytical Results

IGNITABILITY

Method SW1010A

Sample Results

Lab Name: ALS Environmental -- FC

Client Name: CABRERA SERVICES, INC.

Client Project ID: DHS-EML 07-3080.01

Work Order Number: 1108251

Final Volume: 1 CUP

Reporting Basis: As Received

Matrix: SOIL

Prep Method: NONE

Result Units: deg C

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag	Sample Aliquot
SN 2	1108251-1	08/16/2011	09/23/2011	09/23/2011	N/A	1	96	96	U	1 CUP
SN 3	1108251-2	08/16/2011	09/23/2011	09/23/2011	N/A	1	96	96	U	1 CUP
SN 4	1108251-3	08/17/2011	09/24/2011	09/24/2011	N/A	1	96	96	U	1 CUP
SN 5	1108251-4	08/16/2011	09/24/2011	09/24/2011	N/A	1	96	96	U	1 CUP
SN 7	1108251-5	08/17/2011	09/24/2011	09/24/2011	N/A	1	96	96	U	1 CUP
SN 8	1108251-6	08/16/2011	09/24/2011	09/24/2011	N/A	1	96	96	U	1 CUP
SN 11	1108251-7	08/16/2011	09/24/2011	09/24/2011	N/A	1	96	96	U	1 CUP
SN 12	1108251-8	08/17/2011	09/24/2011	09/24/2011	N/A	1	96	96	U	1 CUP
SN 13	1108251-9	08/17/2011	09/24/2011	09/24/2011	N/A	1	96	96	U	1 CUP
SN 14	1108251-10	08/17/2011	09/24/2011	09/24/2011	N/A	1	96	96	U	1 CUP
SN 15	1108251-11	08/16/2011	09/24/2011	09/24/2011	N/A	1	96	96	U	1 CUP
SN 16	1108251-12	08/16/2011	09/24/2011	09/24/2011	N/A	1	96	96	U	1 CUP

Comments:

ND or U = Flashpoint was above 96.5 degrees celsius.

Data Package ID: EX1108251-1



Supporting QA/QC Data

Ignitability

Method SW1010

Duplicate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1108251

Client Name: CABRERA SERVICES, INC.

ClientProject ID: DHS-EML 07-3080.01

Field ID:	SN 3
Lab ID:	1108251-2D

Sample Matrix: SOIL

% Moisture: N/A

Date Collected: 08/16/2011

Date Extracted: 09/23/2011

Date Analyzed: 09/23/2011

Prep Batch: EX110923-1

QCBatchID: EX110923-1-1

Run ID: EX110923-1A

Cleanup: NONE

Basis: As Received

File Name:

Sample Aliquot: 1 CUP

Final Volume: 1 CUP

Result Units: deg C

Clean DF: 1

CASNO	Target Analyte	Sample Result	Samp Qual	Duplicate Result	Dup Qual	Reporting Limit	Dilution Factor	RPD	RPD Limit
10-36-6	IGNITABILITY	96	U	96.5	U	96.5	1		

Data Package ID: EX1108251-1

Prep Batch ID: EX110923-1

Start Date: 09/23/11

End Date: 09/23/11

Concentration Method: NONE

Batch Created By: pjs

Start Time: 10:00

End Time: 15:50

Extract Method: NONE

Date Created: 09/23/11

Prep Analyst: Phillip J. Schlueter

Initial Volume Units: CUP

Time Created: 10:01

Comments:

Final Volume Units: CUP

Validated By: pjs

Date Validated: 09/23/11

Time Validated: 15:55

QC Batch ID: EX110923-1-1

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
1108251-2	DUP	SN 3	SOIL	8/16/2011	1	1	NONE	1	1108251
1108154-1	SMP	XXXXXX	WATER	XXXXXX	1	1	NONE	1	1108154
1108154-2	SMP	XXXXXX	WATER	XXXXXX	1	1	NONE	1	1108154
1108251-1	SMP	SN 2	SOIL	8/16/2011	1	1	NONE	1	1108251
1108251-2	SMP	SN 3	SOIL	8/16/2011	1	1	NONE	1	1108251

In generating this benchsheet, prep analyst states that all aspects of sample preparation as set forth in the appropriate SOP's (including Kuderna-Danish temperatures, proper flow settings on the N-evap, and final volumes) were properly adhered to (unless otherwise noted herein).

QC Types

CAR	Carrier reference sample	DUP	Laboratory Duplicate
LCS	Laboratory Control Sample	LCSD	Laboratory Control Sample Duplicat
MB	Method Blank	MS	Laboratory Matrix Spike
MSD	Laboratory Matrix Spike Duplicate	REP	Sample replicate
RVS	Reporting Level Verification Standar	SMP	Field Sample
SYS	Sample Yield Spike		

Ignitability

Method SW1010

Duplicate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1108251

Client Name: CABRERA SERVICES, INC.

ClientProject ID: DHS-EML 07-3080.01

Field ID:	SN 16
Lab ID:	1108251-12D

Sample Matrix: SOIL

% Moisture: N/A

Date Collected: 08/16/2011

Date Extracted: 09/24/2011

Date Analyzed: 09/24/2011

Prep Batch: EX110924-1

QC Batch ID: EX110924-1-1

Run ID: EX110924-1A

Cleanup: NONE

Basis: As Received

File Name:

Sample Aliquot: 1 CUP

Final Volume: 1 CUP

Result Units: deg C

Clean DF: 1

CASNO	Target Analyte	Sample Result	Samp Qual	Duplicate Result	Dup Qual	Reporting Limit	Dilution Factor	RPD	RPD Limit
10-36-6	IGNITABILITY	96	U	96.5	U	96.5	1		

Data Package ID: EX1108251-1

Prep Batch ID: EX110924-1

Start Date: 09/24/11

End Date: 09/24/11

Concentration Method: NONE

Batch Created By: pjs

Start Time: 7:30

End Time: 15:20

Extract Method: NONE

Date Created: 09/24/11

Prep Analyst: Phillip J. Schlueter

Initial Volume Units: CUP

Time Created: 7:44

Comments:

Final Volume Units: CUP

Validated By: pjs

Date Validated: 09/26/11

Time Validated: 8:28

QC Batch ID: EX110924-1-1

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
1108251-12	DUP	SN 16	SOIL	8/16/2011	1	1	NONE	1	1108251
1108251-10	SMP	SN 14	SOIL	8/17/2011	1	1	NONE	1	1108251
1108251-11	SMP	SN 15	SOIL	8/16/2011	1	1	NONE	1	1108251
1108251-12	SMP	SN 16	SOIL	8/16/2011	1	1	NONE	1	1108251
1108251-3	SMP	SN 4	SOIL	8/17/2011	1	1	NONE	1	1108251
1108251-4	SMP	SN 5	SOIL	8/16/2011	1	1	NONE	1	1108251
1108251-5	SMP	SN 7	SOIL	8/17/2011	1	1	NONE	1	1108251
1108251-6	SMP	SN 8	SOIL	8/16/2011	1	1	NONE	1	1108251
1108251-7	SMP	SN 11	SOIL	8/16/2011	1	1	NONE	1	1108251
1108251-8	SMP	SN 12	SOIL	8/17/2011	1	1	NONE	1	1108251
1108251-9	SMP	SN 13	SOIL	8/17/2011	1	1	NONE	1	1108251

In generating this benchsheet, prep analyst states that all aspects of sample preparation as set forth in the appropriate SOP's (including Kuderna-Danish temperatures, proper flow settings on the N-evap, and final volumes) were properly adhered to (unless otherwise noted herein).

QC Types

CAR	Carrier reference sample	DUP	Laboratory Duplicate
LCS	Laboratory Control Sample	LCSD	Laboratory Control Sample Duplicat
MB	Method Blank	MS	Laboratory Matrix Spike
MSD	Laboratory Matrix Spike Duplicate	REP	Sample replicate
RVS	Reporting Level Verification Standar	SMP	Field Sample
SYS	Sample Yield Spike		



Sample Raw Data

IGNITABILITY WORKSHEET (IGNIT) - METHOD SW1010

Workorder # 1108154, 1108251 Batch ID F110823-1 Date 9/23/11 Initials ES
 Start Time 1000 End Time 1550 p-Xylene Lot ID 332501 SOP 629 Rev 11 Reviewed by/date A 9/16/11

SAMPLE #	FLASH #1 (°C)	FLASH #2 (°C) (Confirmation) Reported Value	CORR. FLASH (°C) (see formula below)	CALC. BAROMETRIC PRESSURE (mm Hg) (see formula below)	COMMENTS
P-XYLENE **(#1)	23.0°	N/A	26.9°	641.6020	Flash @ 1010 Barometric pressure converted to mm Hg from millibars (mB) by: (mB) x 0.75218 = mm Hg
1108154-1	>96.5°	N/A	>96.5°	640.8950	@ 96.5° @ 1150
↓ -2	>96.5°	N/A	>96.5°	640.0901	@ 96.5° @ 130
1108251-1	>96.5°	N/A	>96.5°	639.6388	@ 96.5° @ 1400
↓ -2	>96.5°	N/A	>96.5°	639.3079	@ 96.5° @ 1510
↓ -2 Dup	>96.5°	N/A	>96.5°	639.2853	@ 96.5° @ 1540
p-xylene(#)	23.0°	N/A	27.0°	639.2703	Flash @ 1550
DUP (as applicable)					
P-XYLENE **					

Note that 2nd flash confirmation is run (sample volume permitting) when flash is seen on first test. 2nd flash must be within ±5 °C of first flash for confirmation; if not, see Supervisor. **Calculation for Corrected Flash Point:** n °C + 0.033 (760 mm - P), where P equals current barometric pressure (mm). **Calculated Barometric Pressure:** Access website to obtain current barometric pressure (inches). Convert to mm Hg as follows: barometric pressure (inches) X 25.4 = barometric pressure mm Hg.

** Control Limits for p-xylene ignition temperature: 27±1°C **

p-xylene (#1) = [760 - (0.75218 x 852.88)] 0.033 + 23.0°
 = (760 - 641.6020) 0.033 + 23.0°
 = 3.9024 + 23.0° = 26.9024
 p-xylene (#2) = [760 - (0.75218 x 844.8)] 0.033 + 23.0°
 = (760 - 639.6388) 0.033 + 23.0°
 = 3.9841 + 23.0° = 26.9841

Fort Collins Data Access: Results



10 Minute Observations

Date	Time MST	Temp °F	RH %	DewPt °F	Wind mph	Dir °	Gust mph	Dir °	Press mb	Solar W/m^2
09-23-2011	00:00	47.6	77.9	41.0	1.1	237	1.6	241	852.31	0.0
09-23-2011	00:10	46.9	80.4	41.2	0.0	235	1.8	242	852.21	0.0
09-23-2011	00:20	46.4	82.5	41.3	0.0	245	0.3	245	852.22	0.0
09-23-2011	00:30	45.8	84.1	41.3	0.0	245	0.9	245	852.27	0.0
09-23-2011	00:40	45.9	85.2	41.8	0.5	241	0.9	316	852.31	0.0
09-23-2011	00:50	45.8	84.9	41.5	0.0	315	0.8	316	852.32	0.0
09-23-2011	01:00	46.0	87.0	42.3	0.9	7	1.3	9	852.38	0.0
09-23-2011	01:10	46.2	83.6	41.6	0.0	350	1.6	345	852.35	0.0
09-23-2011	01:20	46.2	83.0	41.3	0.2	317	3.1	307	852.39	0.0
09-23-2011	01:30	46.0	84.4	41.5	1.5	309	2.3	287	852.42	0.0
09-23-2011	01:40	45.8	84.8	41.5	1.5	275	2.5	272	852.40	0.0
09-23-2011	01:50	45.3	84.1	40.8	0.8	355	2.7	274	852.31	0.0
09-23-2011	02:00	45.5	84.0	41.0	2.1	319	3.3	76	852.19	0.0
09-23-2011	02:10	45.6	83.5	40.9	1.9	254	2.7	293	852.01	0.0
09-23-2011	02:20	45.9	83.2	41.1	0.9	291	2.7	3	852.06	0.0
09-23-2011	02:30	45.8	82.5	40.8	0.8	51	4.0	58	852.06	0.0
09-23-2011	02:40	45.8	82.3	40.7	2.2	30	3.6	74	852.11	0.0
09-23-2011	02:50	45.5	82.1	40.3	0.7	338	3.0	353	852.18	0.0
09-23-2011	03:00	44.9	83.6	40.3	0.8	244	2.4	259	852.10	0.0
09-23-2011	03:10	44.3	84.6	40.0	0.3	275	2.6	257	852.07	0.0
09-23-2011	03:20	44.0	86.2	40.1	0.1	223	3.5	211	852.06	0.0
09-23-2011	03:30	43.5	86.6	39.8	0.7	232	3.6	223	852.06	0.0
09-23-2011	03:40	43.8	86.5	40.1	1.1	217	1.7	239	852.06	0.0
09-23-2011	03:50	43.5	86.0	39.6	0.0	235	1.8	228	852.16	0.0
09-23-2011	04:00	43.9	88.7	40.8	0.1	243	1.4	238	852.21	0.0
09-23-2011	04:10	43.8	89.9	41.0	0.0	238	0.7	238	852.31	0.0
09-23-2011	04:20	43.6	90.0	40.9	1.0	14	1.7	21	852.42	0.0
09-23-2011	04:30	43.5	89.3	40.6	0.1	302	1.5	0	852.50	0.0
09-23-2011	04:40	43.4	87.4	40.0	0.4	319	1.7	4	852.55	0.0
09-23-2011	04:50	43.2	88.3	40.0	0.8	279	1.7	267	852.55	0.0
09-23-2011	05:00	42.4	89.2	39.4	1.2	222	2.0	229	852.72	0.0
09-23-2011	05:10	42.4	89.8	39.6	1.2	231	1.7	224	852.80	0.0
09-23-2011	05:20	42.5	89.4	39.6	1.0	247	1.2	241	852.81	0.0
09-23-2011	05:30	42.2	90.2	39.6	0.6	239	1.9	235	852.93	0.0
09-23-2011	05:40	42.1	90.4	39.5	0.3	229	1.9	217	852.93	0.0
09-23-2011	05:50	41.9	90.0	39.2	0.0	273	1.0	273	852.98	0.0
09-23-2011	06:00	41.9	90.7	39.3	0.0	270	1.0	270	853.05	4.5
09-23-2011	06:10	42.3	91.1	39.9	0.8	283	1.4	271	853.05	15.5
09-23-2011	06:20	43.2	89.2	40.2	0.0	283	1.0	284	853.07	53.2
09-23-2011	06:30	45.9	88.5	42.6	0.0	302	0.5	302	853.05	57.2
09-23-2011	06:40	49.4	80.8	43.7	0.3	0	1.3	17	853.06	95.1
09-23-2011	06:50	52.8	68.8	42.9	0.1	358	2.5	14	853.17	103.6
09-23-2011	07:00	54.4	65.8	43.3	0.0	5	3.1	38	853.26	130.1
09-23-2011	07:10	56.7	60.1	43.1	0.9	337	2.5	42	853.30	166.4
09-23-2011	07:20	61.2	46.0	40.3	0.6	342	2.6	333	853.23	244.3
09-23-2011	07:30	63.6	39.7	38.7	1.8	345	3.6	0	853.29	272.5
09-23-2011	07:40	65.4	37.1	38.5	1.4	331	2.9	20	853.20	303.3

09-23-2011	07:50	66.6	35.7	38.6	3.3	346	5.0	36	853.19	335.8
09-23-2011	08:00	67.9	34.6	39.0	1.6	349	5.3	7	853.15	370.4
09-23-2011	08:10	69.2	31.2	37.5	3.7	358	5.3	8	853.12	384.2
09-23-2011	08:20	70.5	30.2	37.8	3.6	1	6.8	13	853.17	434.5
09-23-2011	08:30	71.9	28.9	37.9	2.3	6	4.8	0	853.21	461.4
09-23-2011	08:40	73.2	29.0	39.0	4.3	16	6.9	342	853.19	512.2
09-23-2011	08:50	73.9	26.0	36.9	4.6	16	6.4	6	853.17	482.9
09-23-2011	09:00	74.4	25.3	36.6	6.2	10	8.6	353	853.15	526.5
09-23-2011	09:10	75.3	23.4	35.4	4.3	12	8.1	21	853.12	589.6
09-23-2011	09:20	76.7	24.6	37.8	2.9	10	9.1	19	853.07	620.2
09-23-2011	09:30	78.4	24.4	39.0	1.0	344	3.9	347	853.05	617.9
09-23-2011	09:40	79.0	22.9	38.0	2.5	349	5.3	44	853.05	671.1
09-23-2011	09:50	79.4	21.5	36.6	2.2	336	6.1	25	853.01	637.5
09-23-2011	10:00	78.8	17.6	31.3	7.4	8	13.3	20	852.92	690.3
09-23-2011	10:10	79.3	20.0	34.8	2.0	9	12.0	11	852.89	728.5
09-23-2011	10:20	80.5	16.7	31.2	4.3	345	7.8	334	852.87	734.9
09-23-2011	10:30	80.1	17.8	32.5	2.5	348	9.9	350	852.80	751.1
09-23-2011	10:40	80.6	15.4	29.3	6.3	23	11.1	24	852.73	763.1
09-23-2011	10:50	80.6	16.8	31.5	6.3	31	10.1	18	852.57	780.4
09-23-2011	11:00	81.1	16.2	31.0	4.7	20	9.3	0	852.56	774.5
09-23-2011	11:10	81.4	15.9	30.8	4.4	27	8.9	335	852.45	801.6
09-23-2011	11:20	81.9	18.4	34.8	3.0	27	8.1	49	852.43	799.4
09-23-2011	11:30	82.0	16.7	32.4	5.8	17	12.9	18	852.31	802.2
09-23-2011	11:40	81.5	17.2	32.7	3.4	38	10.2	65	852.18	813.3
09-23-2011	11:50	82.3	16.2	32.0	6.7	40	10.3	32	852.05	819.2
09-23-2011	12:00	82.5	17.5	34.0	3.8	46	9.1	64	851.91	816.7
09-23-2011	12:10	82.9	16.0	32.2	6.5	29	11.3	52	851.81	821.7
09-23-2011	12:20	82.9	16.5	32.9	7.2	44	10.6	37	851.69	816.3
09-23-2011	12:30	82.9	15.9	32.0	11.8	55	15.0	77	851.48	800.5
09-23-2011	12:40	83.2	17.0	34.0	3.1	43	12.8	58	851.29	804.2
09-23-2011	12:50	84.0	17.1	34.7	3.7	30	12.5	32	851.18	792.9
09-23-2011	13:00	84.1	17.2	34.9	2.4	16	11.2	13	851.02	778.6
09-23-2011	13:10	84.2	15.3	32.1	7.5	23	12.0	13	850.98	767.8
09-23-2011	13:20	84.6	15.2	32.1	8.4	26	11.4	3	850.84	754.0
09-23-2011	13:30	84.5	16.1	33.7	4.3	23	10.5	33	850.72	738.2
09-23-2011	13:40	84.3	15.8	32.9	6.5	35	10.4	33	850.63	719.9
09-23-2011	13:50	85.0	15.5	33.1	1.2	23	8.8	30	850.50	704.1
09-23-2011	14:00	85.3	14.8	32.1	4.6	31	10.2	16	850.38	680.6
09-23-2011	14:10	85.2	15.3	32.8	4.9	37	7.8	60	850.29	657.4
09-23-2011	14:20	85.2	15.5	33.2	6.8	61	9.3	63	850.12	636.7
09-23-2011	14:30	85.3	14.4	31.5	6.1	22	8.5	59	850.08	615.3
09-23-2011	14:40	85.2	15.3	32.9	3.6	38	8.4	90	850.04	590.3
09-23-2011	14:50	84.9	14.7	31.6	7.0	63	9.6	80	850.02	577.4
09-23-2011	15:00	85.0	14.7	31.7	5.4	71	9.6	69	850.01	571.8
09-23-2011	15:10	85.0	14.8	31.9	4.7	68	9.9	99	849.94	532.8
09-23-2011	15:20	84.7	14.0	30.2	1.5	44	6.3	57	849.94	414.9
09-23-2011	15:30	84.4	16.1	33.5	5.6	58	8.7	121	849.92	375.5
09-23-2011	15:40	83.8	16.8	34.1	3.7	65	11.0	68	849.91	325.4
09-23-2011	15:50	84.1	17.2	34.9	2.6	22	5.9	11	849.89	237.7
09-23-2011	16:00	83.4	17.2	34.4	1.6	39	4.8	7	849.89	229.0
09-23-2011	16:10	83.5	18.8	36.7	1.6	62	6.0	58	849.89	265.5
09-23-2011	16:20	84.3	17.7	35.7	2.4	69	4.3	92	849.88	311.0
09-23-2011	16:30	83.4	19.2	37.2	1.8	59	6.4	26	849.83	227.2
09-23-2011	16:40	83.5	20.9	39.4	1.0	92	3.9	111	849.80	215.8
09-23-2011	16:50	84.0	17.8	35.8	2.4	79	3.6	86	849.77	209.7
09-23-2011	17:00	83.4	19.4	37.4	2.5	106	3.5	83	849.81	169.3
09-23-2011	17:10	81.9	17.7	33.8	3.4	121	5.2	147	849.83	60.8
09-23-2011	17:20	80.6	18.9	34.5	2.6	167	5.6	176	849.93	38.0
09-23-2011	17:30	79.5	22.7	38.2	2.1	152	3.8	158	850.01	24.3
09-23-2011	17:40	77.1	28.2	41.7	1.4	194	5.1	181	850.01	8.2
09-23-2011	17:50	74.5	29.6	40.8	1.8	196	4.8	218	850.13	0.2
09-23-2011	18:00	73.9	32.1	42.3	1.7	212	3.9	199	850.13	0.0

09-23-2011	18:10	72.1	34.4	42.5	0.0	237	2.0	234	850.18	0.0
09-23-2011	18:20	70.4	39.8	44.8	0.8	185	1.1	238	850.17	0.0
09-23-2011	18:30	68.3	45.7	46.5	0.0	247	1.4	251	850.21	0.0
09-23-2011	18:40	67.4	44.7	45.1	2.3	11	3.0	8	850.35	0.0
09-23-2011	18:50	67.2	47.9	46.8	1.2	349	5.2	14	850.49	0.0
09-23-2011	19:00	66.1	51.0	47.4	0.3	296	2.0	4	850.52	0.0
09-23-2011	19:10	64.9	53.6	47.6	0.7	239	1.8	204	850.50	0.0
09-23-2011	19:20	64.3	51.9	46.3	0.0	212	1.0	211	850.47	0.0
09-23-2011	19:30	63.9	55.2	47.5	0.1	346	0.2	25	850.60	0.0
09-23-2011	19:40	63.1	58.8	48.4	0.0	314	1.6	12	850.64	0.0
09-23-2011	19:50	61.5	58.8	47.0	0.6	271	0.8	270	850.68	0.0
09-23-2011	20:00	61.2	60.8	47.6	0.0	276	1.0	281	850.72	0.0
09-23-2011	20:10	60.8	63.1	48.2	0.0	0	0.0	281	850.74	0.0
09-23-2011	20:20	60.2	59.4	46.0	0.8	347	1.2	335	850.81	0.0
09-23-2011	20:30	59.7	59.8	45.7	0.3	2	0.9	0	850.83	0.0
09-23-2011	20:40	59.8	55.3	43.8	2.6	36	4.7	12	850.89	0.0
09-23-2011	20:50	61.1	50.3	42.5	0.8	351	6.0	17	850.83	0.0
09-23-2011	21:00	61.3	51.5	43.3	0.5	325	4.9	262	850.80	0.0
09-23-2011	21:10	60.9	53.4	43.9	0.7	304	1.8	290	850.78	0.0
09-23-2011	21:20	60.3	53.5	43.4	0.0	287	3.3	286	850.75	0.0
09-23-2011	21:30	59.5	54.3	43.0	0.0	308	1.8	308	850.80	0.0
09-23-2011	21:40	59.1	51.7	41.3	0.8	265	2.9	253	850.75	0.0
09-23-2011	21:50	58.7	52.5	41.4	0.7	301	2.8	274	850.74	0.0
09-23-2011	22:00	59.1	48.8	39.9	0.6	10	2.1	4	850.71	0.0
09-23-2011	22:10	59.0	51.1	40.9	0.7	15	1.7	7	850.68	0.0
09-23-2011	22:20	58.5	50.5	40.2	0.6	30	3.2	38	850.52	0.0
09-23-2011	22:30	58.3	52.8	41.1	0.5	26	1.4	13	850.38	0.0
09-23-2011	22:40	57.5	53.0	40.6	0.0	67	1.1	67	850.32	0.0
09-23-2011	22:50	57.0	55.4	41.2	0.8	68	1.0	68	850.21	0.0
09-23-2011	23:00	56.5	56.3	41.1	0.8	24	1.1	272	850.13	0.0
09-23-2011	23:10	56.0	67.5	45.4	0.8	75	1.4	49	850.11	0.0
09-23-2011	23:20	54.8	61.3	41.8	0.4	106	1.2	106	850.13	0.0
09-23-2011	23:30	55.0	59.8	41.3	1.3	205	2.5	195	850.17	0.0
09-23-2011	23:40	54.9	61.6	41.9	0.0	194	1.0	199	850.13	0.0
09-23-2011	23:50	54.5	63.6	42.4	0.0	213	0.4	213	850.01	0.0

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IGNITABILITY WORKSHEET (IGNIT) - METHOD SW1010

Workorder # 1108251 Batch ID EX109241 Date 9/24/11 Initials [Signature]
 Start Time 0730 End Time 1520 p-Xylene Lot ID 32501 SOP 629 Rev 11 Reviewed by/date HA 7/26/11

SAMPLE #	FLASH #1 (°C)	FLASH #2 (°C) (Confirmation) Reported Value	CORR. FLASH (°C) (see formula below)	CALC. BAROMETRIC PRESSURE (mm Hg) (see formula below)	COMMENTS
P-XYLENE ** (#1)	23.0°	N/A	27.0°	639.2101	Flash @ Barometric pressure converted to mmHg from (mm) millibars by: mb x 0.7528 = mmHg
1108251-3	>96.5°	N/A	>96.5°	639.1650	@ 96.5° @ 0820
-4	>96.5°	N/A	>96.5°	639.1123	@ 96.5° @ 0910
-5	>96.5°	N/A	>96.5°	638.8265	@ 96.5° @ 1000
-6	>96.5°	N/A	>96.5°	638.4429	@ 96.5° @ 1040
-7	>96.5°	N/A	>96.5°	637.7885	@ 96.5° @ 1150
-8	>96.5°	N/A	>96.5°	637.6004	@ 96.5° @ 1210
-9	>96.5°	N/A	>96.5°	637.2018	@ 96.5° @ 1240
-10	>96.5°	N/A	>96.5°	636.8332	@ 96.5° @ 1340
-11	>96.5°	N/A	>96.5°	636.5775	@ 96.5° @ 1430
-12	>96.5°	N/A	>96.5°	636.4797	@ 96.5° @ 1500
DUP (as applicable) - 12	>96.5°	N/A	>96.5°	636.4947	@ 96.5° @ 1510
P-XYLENE ** (#2)	23.0°	N/A	27.1°	636.4120	Flash @ 1520

Note that 2nd flash confirmation is run (sample volume permitting) when flash is seen on first test. 2nd flash must be within ±5 °C of first flash for confirmation; if not, see Supervisor. **Calculation for Corrected Flash Point:** n °C + 0.033 (760 mm - P), where P equals current barometric pressure (mm). **Calculated Barometric Pressure:** Access website to obtain current barometric pressure (inches). Convert to mm Hg as follows: barometric pressure (inches) X 25.4 = barometric pressure mm Hg. **** Control Limits for p-xylene ignition temperature: 27±1°C ****

$$p\text{-xylene}(\#1): [760 - (0.7528 \times 846.81)] 0.033 + 23.0^\circ$$

$$= (760 - 639.201) 0.033 + 23.0^\circ$$

$$= 5.9861 + 23.0^\circ = 26.9861 \neq 27.0^\circ$$

$$p\text{-xylene}(\#2): [760 - (0.7528 \times 846.09)] 0.033 + 23.0^\circ$$

$$= (760 - 636.4120) 0.033 + 23.0^\circ$$

$$= 4.0784 + 23.0^\circ = 27.0784 \approx 27.1^\circ$$

Form 632r8.frm (11/5/2002)

Fort Collins Data Access: Results



10 Minute Observations

Date	Time MST	Temp °F	RH %	DewPt °F	Wind mph	Dir °	Gust mph	Dir °	Press mb	Solar W/m ²
09-24-2011	00:00	54.1	64.3	42.3	0.5	257	0.7	257	849.84	0.0
09-24-2011	00:10	53.5	69.3	43.7	0.0	258	1.0	257	849.84	0.0
09-24-2011	00:20	52.9	69.8	43.4	0.0	0	0.0	186	849.76	0.0
09-24-2011	00:30	52.7	73.6	44.5	0.0	0	0.0	186	849.75	0.0
09-24-2011	00:40	52.1	76.3	44.9	0.0	217	1.5	213	849.73	0.0
09-24-2011	00:50	51.9	77.3	45.0	0.0	226	1.1	237	849.64	0.0
09-24-2011	01:00	51.4	75.6	43.9	0.0	225	0.6	225	849.52	0.0
09-24-2011	01:10	51.3	78.8	44.9	0.0	0	0.0	225	849.52	0.0
09-24-2011	01:20	50.5	79.1	44.3	0.3	202	1.8	197	849.45	0.0
09-24-2011	01:30	50.5	76.1	43.3	0.0	197	0.4	197	849.39	0.0
09-24-2011	01:40	50.9	76.5	43.8	1.8	222	2.8	247	849.26	0.0
09-24-2011	01:50	50.2	80.1	44.3	0.7	217	2.6	203	849.24	0.0
09-24-2011	02:00	50.0	79.4	43.9	0.9	217	1.3	217	849.27	0.0
09-24-2011	02:10	50.1	79.9	44.2	1.3	244	1.5	226	849.27	0.0
09-24-2011	02:20	50.1	79.5	44.0	0.7	215	2.0	219	849.15	0.0
09-24-2011	02:30	49.6	81.9	44.3	1.8	216	2.3	223	849.04	0.0
09-24-2011	02:40	49.6	79.2	43.5	1.5	221	2.2	210	849.03	0.0
09-24-2011	02:50	49.7	80.3	43.8	1.1	203	2.1	220	849.01	0.0
09-24-2011	03:00	49.0	81.7	43.7	0.0	222	2.1	225	848.91	0.0
09-24-2011	03:10	48.7	81.9	43.4	0.0	0	0.0	224	848.88	0.0
09-24-2011	03:20	48.3	84.4	43.8	0.8	221	1.1	214	848.98	0.0
09-24-2011	03:30	48.2	84.7	43.8	1.2	224	2.3	218	848.93	0.0
09-24-2011	03:40	48.4	83.9	43.8	0.1	246	1.2	247	848.92	0.0
09-24-2011	03:50	47.5	84.1	43.0	0.0	227	1.6	217	848.92	0.0
09-24-2011	04:00	47.3	84.8	43.0	0.0	143	0.9	143	848.94	0.0
09-24-2011	04:10	47.3	85.9	43.3	0.0	188	0.9	182	848.96	0.0
09-24-2011	04:20	47.2	86.8	43.5	0.0	0	0.0	205	848.95	0.0
09-24-2011	04:30	47.2	86.8	43.5	0.0	216	1.6	223	848.96	0.0
09-24-2011	04:40	46.5	86.9	42.8	0.0	222	1.8	241	849.06	0.0
09-24-2011	04:50	46.7	87.7	43.2	0.3	77	3.6	69	849.12	0.0
09-24-2011	05:00	47.3	87.2	43.7	0.5	330	1.5	292	849.21	0.0
09-24-2011	05:10	47.4	87.2	43.8	0.9	304	1.4	279	849.25	0.0
09-24-2011	05:20	46.8	87.2	43.2	1.4	247	2.2	226	849.35	0.0
09-24-2011	05:30	46.2	88.6	43.0	1.2	244	1.9	250	849.47	0.0
09-24-2011	05:40	46.0	88.6	42.8	0.7	255	2.3	257	849.47	0.0
09-24-2011	05:50	45.6	88.5	42.4	0.0	256	1.2	256	849.57	0.0
09-24-2011	06:00	46.2	89.7	43.3	1.9	22	2.7	54	849.64	4.2
09-24-2011	06:10	46.4	87.6	42.9	0.9	242	2.3	294	849.72	13.8
09-24-2011	06:20	46.8	84.8	42.4	0.9	267	1.7	285	849.74	58.5
09-24-2011	06:30	47.8	85.1	43.6	1.4	252	2.9	255	849.78	84.7
09-24-2011	06:40	49.9	82.8	44.9	0.6	263	1.8	262	849.87	106.3
09-24-2011	06:50	52.3	77.7	45.6	0.0	256	2.3	265	849.87	128.1
09-24-2011	07:00	54.8	73.8	46.6	0.8	300	1.5	16	849.85	159.3
09-24-2011	07:10	56.8	70.4	47.2	0.4	283	2.3	316	849.79	192.1
09-24-2011	07:20	60.6	51.7	42.7	2.1	353	4.1	19	849.79	225.5
09-24-2011	07:30	63.9	44.6	42.0	1.4	337	4.3	0	849.80	239.5
09-24-2011	07:40	65.2	42.4	41.8	1.6	353	5.2	25	849.81	241.4

09-24-2011	07:50	66.7	40.5	41.9	1.8	358	4.4	5	849.81	297.3
09-24-2011	08:00	68.8	39.9	43.4	2.1	345	4.3	344	849.74	349.1
09-24-2011	08:10	70.0	41.0	45.2	1.6	350	5.4	0	849.81	384.6
09-24-2011	08:20	71.3	39.3	45.3	2.2	0	5.1	25	849.75	423.8
09-24-2011	08:30	72.3	36.2	44.0	2.7	354	7.4	345	849.72	420.5
09-24-2011	08:40	74.1	35.3	44.9	0.1	344	4.3	311	849.72	484.8
09-24-2011	08:50	76.2	31.7	44.0	1.2	339	3.8	2	849.73	514.9
09-24-2011	09:00	76.5	29.7	42.6	1.2	337	5.5	8	849.68	544.5
09-24-2011	09:10	77.6	27.1	41.1	2.5	329	7.3	343	849.68	550.7
09-24-2011	09:20	78.9	26.4	41.5	0.4	327	4.2	346	849.60	593.6
09-24-2011	09:30	79.3	24.0	39.5	1.8	327	6.3	298	849.54	635.1
09-24-2011	09:40	80.0	22.7	38.6	1.9	320	6.1	302	849.49	595.8
09-24-2011	09:50	80.5	22.8	39.1	2.9	347	5.4	346	849.42	609.0
09-24-2011	10:00	81.4	22.9	39.9	1.9	359	8.4	346	849.30	688.3
09-24-2011	10:10	81.5	20.6	37.4	4.4	347	7.9	346	849.16	680.7
09-24-2011	10:20	81.5	18.8	35.0	4.7	355	8.3	14	848.99	708.0
09-24-2011	10:30	82.4	18.5	35.4	3.8	357	7.9	24	848.94	740.5
09-24-2011	10:40	82.1	16.4	32.1	2.8	348	9.3	3	848.79	767.8
09-24-2011	10:50	82.7	17.4	34.1	1.8	8	10.0	0	848.67	733.4
09-24-2011	11:00	82.4	17.8	34.4	4.2	12	10.3	17	848.53	706.9
09-24-2011	11:10	82.5	18.1	35.0	3.8	12	11.4	0	848.41	698.7
09-24-2011	11:20	82.3	18.5	35.3	2.9	7	9.3	22	848.31	681.4
09-24-2011	11:30	83.0	17.0	33.8	5.3	357	10.8	327	848.18	722.8
09-24-2011	11:40	83.6	18.3	36.1	3.2	11	9.2	1	848.05	796.5
09-24-2011	11:50	84.3	17.5	35.5	1.3	3	11.2	340	847.92	807.6
09-24-2011	12:00	84.7	18.2	36.9	3.0	340	8.7	41	847.79	770.1
09-24-2011	12:10	84.8	17.5	36.0	2.0	340	8.4	2	847.67	762.2
09-24-2011	12:20	85.0	16.7	35.0	2.6	337	9.5	30	847.43	823.0
09-24-2011	12:30	85.3	15.8	33.7	2.5	324	6.3	297	847.28	716.7
09-24-2011	12:40	85.7	16.0	34.3	4.4	341	13.8	343	847.14	757.7
09-24-2011	12:50	85.8	18.2	37.8	3.0	2	9.0	17	847.05	739.7
09-24-2011	13:00	85.8	17.3	36.4	4.5	349	10.8	0	846.94	702.3
09-24-2011	13:10	85.0	16.8	35.0	4.8	10	9.9	19	846.79	719.7
09-24-2011	13:20	86.4	17.9	37.8	2.6	359	9.1	14	846.72	752.4
09-24-2011	13:30	85.1	16.0	33.9	4.7	348	10.1	5	846.69	601.3
09-24-2011	13:40	85.9	17.3	36.6	5.2	1	10.7	12	846.65	656.8
09-24-2011	13:50	85.4	16.8	35.3	4.0	359	12.6	1	846.56	637.5
09-24-2011	14:00	86.0	17.4	36.7	2.2	356	11.4	15	846.46	678.6
09-24-2011	14:10	86.2	16.7	35.9	2.8	350	9.6	6	846.43	623.7
09-24-2011	14:20	86.4	16.9	36.4	4.2	353	8.6	354	846.41	633.3
09-24-2011	14:30	86.3	16.2	35.2	2.9	317	9.0	295	846.31	605.8
09-24-2011	14:40	85.9	18.6	38.4	3.3	345	9.3	12	846.25	518.8
09-24-2011	14:50	85.7	18.5	38.1	2.2	350	10.7	38	846.22	471.9
09-24-2011	15:00	85.4	18.4	37.6	7.7	339	11.6	20	846.18	426.7
09-24-2011	15:10	84.5	20.1	39.2	2.9	8	9.7	29	846.20	369.6
09-24-2011	15:20	84.4	21.2	40.5	1.8	11	6.9	14	846.09	324.3
09-24-2011	15:30	83.7	20.3	38.9	3.5	12	11.0	36	846.00	271.7
09-24-2011	15:40	83.7	19.0	37.1	5.2	11	9.6	35	845.95	277.6
09-24-2011	15:50	83.7	18.9	37.0	4.3	358	6.4	15	845.86	280.1
09-24-2011	16:00	83.5	20.4	38.8	2.7	3	8.6	23	845.83	258.1
09-24-2011	16:10	83.4	21.5	40.0	4.3	4	6.4	0	845.84	239.4
09-24-2011	16:20	82.5	21.2	38.9	3.6	6	8.5	337	845.88	190.2
09-24-2011	16:30	81.8	20.8	37.9	4.0	16	8.8	22	845.96	140.2
09-24-2011	16:40	81.5	20.9	37.8	3.5	21	6.4	19	845.94	130.7
09-24-2011	16:50	81.1	23.5	40.5	3.0	20	4.8	24	845.90	118.4
09-24-2011	17:00	80.5	24.9	41.4	1.7	359	6.7	0	845.84	92.8
09-24-2011	17:10	79.4	28.0	43.5	1.1	346	4.5	315	845.84	56.4
09-24-2011	17:20	77.4	29.4	43.0	1.2	329	2.5	306	846.03	37.1
09-24-2011	17:30	76.3	30.6	43.1	1.1	324	3.8	7	846.20	22.4
09-24-2011	17:40	75.0	32.5	43.5	1.4	314	2.7	289	846.28	10.3
09-24-2011	17:50	73.8	32.7	42.7	1.1	276	2.5	293	846.31	3.9
09-24-2011	18:00	72.1	38.9	45.7	1.6	260	1.8	253	846.32	0.0

09-24-2011	18:10	70.2	41.6	45.8	1.4	269	3.0	289	846.39	0.0
09-24-2011	18:20	68.9	46.2	47.4	1.6	265	4.5	274	846.40	0.0
09-24-2011	18:30	68.7	44.6	46.3	0.7	279	3.0	274	846.50	0.0
09-24-2011	18:40	68.0	44.9	45.9	0.9	309	1.8	262	846.56	0.0
09-24-2011	18:50	67.4	46.9	46.4	1.9	297	2.3	265	846.66	0.0
09-24-2011	19:00	66.5	47.8	46.1	0.0	337	2.1	267	846.74	0.0
09-24-2011	19:10	65.7	55.2	49.2	0.8	272	0.9	266	846.81	0.0
09-24-2011	19:20	64.8	52.7	47.2	0.7	248	2.0	234	846.92	0.0
09-24-2011	19:30	63.7	56.8	48.1	1.0	275	1.2	294	846.98	0.0
09-24-2011	19:40	62.9	57.7	47.8	0.7	314	1.4	294	847.08	0.0
09-24-2011	19:50	63.5	56.5	47.8	1.4	16	2.1	9	847.20	0.0
09-24-2011	20:00	63.5	56.2	47.6	1.7	14	3.5	65	847.26	0.0
09-24-2011	20:10	63.7	54.0	46.8	0.8	346	4.6	34	847.30	0.0
09-24-2011	20:20	63.3	53.1	46.0	0.0	295	1.6	279	847.25	0.0
09-24-2011	20:30	61.8	55.4	45.7	0.0	59	1.1	58	847.33	0.0
09-24-2011	20:40	61.6	55.8	45.6	3.9	59	5.2	56	847.67	0.0
09-24-2011	20:50	62.8	52.4	45.1	3.3	56	4.6	65	847.71	0.0
09-24-2011	21:00	62.6	54.6	46.0	0.2	357	3.7	44	847.72	0.0
09-24-2011	21:10	61.6	56.4	46.0	0.7	338	2.3	0	847.74	0.0
09-24-2011	21:20	61.0	57.3	45.8	1.1	6	3.2	1	847.80	0.0
09-24-2011	21:30	60.5	60.0	46.6	0.5	345	2.0	8	847.85	0.0
09-24-2011	21:40	59.7	58.2	45.0	1.7	272	1.8	276	847.92	0.0
09-24-2011	21:50	59.2	60.3	45.4	0.0	273	2.0	288	847.90	0.0
09-24-2011	22:00	58.1	66.8	47.2	0.7	297	0.9	297	847.88	0.0
09-24-2011	22:10	57.4	68.8	47.2	0.0	267	0.9	252	847.83	0.0
09-24-2011	22:20	56.6	66.3	45.5	0.0	333	0.8	333	847.80	0.0
09-24-2011	22:30	56.4	66.6	45.4	0.0	0	0.0	340	847.79	0.0
09-24-2011	22:40	56.2	67.2	45.5	0.0	290	1.0	288	847.69	0.0
09-24-2011	22:50	56.0	71.1	46.8	0.0	289	0.6	289	847.55	0.0
09-24-2011	23:00	55.8	67.8	45.3	0.3	332	1.5	333	847.54	0.0
09-24-2011	23:10	55.6	69.1	45.6	0.0	0	0.0	353	847.43	0.0
09-24-2011	23:20	54.9	71.2	45.7	0.0	0	0.0	334	847.42	0.0
09-24-2011	23:30	54.5	70.4	45.0	0.0	0	0.0	334	847.28	0.0
09-24-2011	23:40	54.5	71.9	45.6	0.0	347	1.0	341	847.18	0.0
09-24-2011	23:50	54.4	70.3	45.0	0.6	71	1.0	14	847.10	0.0

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 - [1900 Daily Summary](#)
- [0700 Supplemental Summary](#)
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