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Sconza Candy Company
Candy Manufacturers Since 1939

1 Sconza Candy Lane ● Oakdale, California 95631 ● TEL: (209) 845-3700 ● FAX: (209) 845-3779

September 12, 2011
Mr. Victor Vasquez
California Regional Water Board
Central Valley Region RWQCB
11020 Sun Center Drive #200
Rancho Cordova, CA 95670

Victor:

Attached are the results of monitoring for the month of August 2011, for effluent water for Sconza Candy Company at their Oakdale facility at One Sconza Candy Lane. This property was previously held by Hershey Chocolate & Confectionery Corp., operating under Waste Discharge Monitoring and Reporting Program Order No. R5-2002-0111 and for NPDES No. CA0004146.
JL Analytical Services, Inc. in Modesto completed all monthly/bi-monthly tests.
Please let me know if there are any concerns.
Jesse Hodges Cell # 209 918-0140

"I certify under penalty of the law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Sincerely,

Ron Sconza
Chief Executive Officer
Sconza Candy Company

SPK 9/10/11

Sconza Candy Company
August 2011 Weekly/Monthly Monitoring
EFFLUENT MONITORING (NON-CONTACT COOLING WATER)

DATE (2011)	BOD *Twice per month*		COD *Twice per month*		TURBIDITY (NTU) *Monthly*	Oil & Grease *Twice per month*		ACUTE TOXICITY (% Survival) *Monthly*
	Mg/l	*lb/day*	*Mg/l*	*lb/day*		*Mg/l*	*lb/day*	
8/1	4	27.6	<5	<95.5	0.1	**<5**	<95.5	NT
8/2	4	27.6	<5	<95.5	NT	<5	<95.5	NT
8/4					NT			100
30 day avg.	4.0	27.6	<5	<95.5		<5	<95.5	

DATE (2011)	FLOW (MGD) *Continuous* Well flow- Sewer- landscape watering = Flow to OID canal in MGD	pH *Weekly*	CHLORINE RESIDUAL *Weekly*		TEMP. (°F) *Weekly*	DISSOLVED OXYGEN (mg/l) *Weekly*	SPECIFIC CONDUCTIVITY (µmhos/cm) *Weekly*
			mg/l	lb/day			
8/5	2.59- 0.08 – 0.15 = 2.36 MGD	7.90	0.01	0.20	78.3	9.11	248.0
8/12	2.53- 0.08 – 0.15 = 2.30 MGD	7.40	0.00	0.00	76.5	8.29	249.1
8/19	2.51- 0.08 – 0.15 = 2.28 MGD	7.49	0.01	0.19	77.0	8.87	249.8
8/26	2.49- 0.08 – 0.15 = 2.26 MGD	7.83	0.01	0.19	78.1	8.80	246.9
30 day avg.	2.30 MGD		0.01	0.19			

RECEIVING WATER (OAKDALE IRRIGATION DISTRICT CANAL)

ATE (2011)	FLOW (cubic ft/min) *weekly*		pH *Weekly*		CHLORINE RESIDUAL (mg/l) *Weekly*		TURBIDITY (NTU) *Monthly (7/5)*		TEMP. (°F) *Weekly*		DISSOLVED OXYGEN (mg/l) *Weekly*		SPECIFIC CONDUCTIVITY (µmhos/cm) *Weekly*	
	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2
8/1							2.2	2.0						
8/5	5755	as R1	7.41	7.66	0.00	0.00			61.0	62.1	9.43	9.43	56.83	66.28
8/12	5108	"	7.73	7.81	0.00	0.00			60.3	61.0	9.51	9.70	56.14	65.41
8/19	2213	"	7.91	8.07	0.00	0.00			59.9	60.8	9.25	9.34	55.38	63.56
8/26	4257	"	7.95	8.07	0.00	0.00			61.2	62.2	10.18	9.47	56.15	64.15
30 day avg.					0.00	0.00								

Sconza Candy Company
August 2011 Monitoring

WATER CONDITIONS BOUNDED BY R1 AND R2

DATE: (2011)	8/5	8/12	8/19	8/26	
FLOATING OR SUSPENDED MATERIAL	Weed litter	Weed litter	Weed litter	Weed and leaf litter	
DISCOLORATION	Greenish-brown	Greenish-brown	Greenish-	Greenish	
BOTTOM DEPOSITS	Mud/silt	Mud/silt	Mud/silt	Mud/silt	
AQUATIC LIFE	Aquatic plants, Damselflies, small invert, moss	Aquatic plants, moss	Aquatic plants, Damselflies, moss, snail	Aquatic plants, moss, small invert	
VISIBLE FILM, SHEEN OR COATINGS	None	None	None	None	
FUNGI, SLIMES OR OBJECTIONABLE GROWTH	None	None	None	None	
POTENTIAL NUISANCE CONDITIONS	None	None	None	None	
PRESENCE OR ABSENCE OF SALMONIDS	Absent	Absent	Absent	Absent	
COMMENTS		hot			

J L ANALYTICAL SERVICES, INC.

217 Primo Way • Modesto, California 95358 • Office (209) 538-8111 • FAX (209) 538-3966

Sconza Candy Company
Attn: Jesse Hodges
1 Sconza Candy Lane
Oakdale,CA 95361

Report # L2.2-14R13511
Report Date: 08/03/2011
Received Date: 08/01/2011
Work Order: 246294

Laboratory Number: 24629401
Description: Water, Receiving Water, R2, 8/1/11, 825

Analytical Results

Constituent	Result	Minimum Level	Method Detection Limit	Method Reference	Analysis Date	Analysis Time	Analyst
Turbidity	2.0 NTU	0.1	0.04	SM 2130B	08/02/2011	13:40	GP

QC Results

Constituent	QC Units	Blank	Matrix	Theoretical Spike	Matrix Spike	Matrix Spike Duplicate	Lab Control Spike	Precision %	Accuracy %	Response %
Turbidity	NTU	< 0.1	2.0	40	41	41	39	0.5	98.2	98.5

Notes

Authorized By: Amos Snider 08/03/2011

Amos Snider Laboratory Supervisor

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Sconza Candy Company
Attn: Jesse Hodges
1 Sconza Candy Lane
Oakdale,CA 95361

Report # L2.2-14R13510
Report Date: 08/03/2011
Received Date: 08/01/2011
Work Order: 246293

Laboratory Number: 24629301
Description: Water, Receiving Water, R1, 8/1/11, 815

Analytical Results

Constituent	Result		Minimum Level	Method Detection Limit	Method Reference	Analysis Date	Analysis Time	Analyst
Turbidity	2.2	NTU	0.1	0.04	SM 2130B	08/02/2011	13:40	GP

QC Results

Constituent	QC Units	Blank	Matrix	Theoretical Spike	Matrix Spike	Matrix Spike Duplicate	Lab Control Spike	Precision %	Accuracy %	Response %
Turbidity	NTU	< 0.1	2.0	40	41	41	39	0.5	98.2	98.5

Notes

Authorized By: Amos Snider 08/03/2011

Amos Snider Laboratory Supervisor

ELAP Accreditation Laboratory Certificate #2776. These results relate only to the samples tested. This report shall not be reproduced except in fullwithout written approval of the laboratory.

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Sconza Candy Company
Attn: Jesse Hodges
1 Sconza Candy Lane
Oakdale,CA 95361

Report # L2.2-14R13648
Report Date: 08/10/2011
Received Date: 08/01/2011
Work Order: 246292

Laboratory Number: 24629201
Description: Water, Pond Effluent, 8/1/11, 820

Analytical Results

Constituent		Result		Minimum Level	Method Detection Limit	Method Reference	Analysis Date	Analysis Time	Analyst
BOD		4	mg/l	2.0	1.0	SM 5210B	08/01/2011	07:30	NH
COD, titrametric	<	5	mg/l	5.0	3.0	SM 5220C	08/05/2011	14:40	GP
Oil & Grease	<	5	mg/l	5.0	1.5	EPA 1664A	08/03/2011	14:00	JP
Turbidity		0.1	NTU	0.1	0.04	SM 2130B	08/02/2011	13:40	GP

QC Results

Constituent	QC Units	Blank	Matrix	Theoretical Spike	Matrix Spike	Matrix Spike Duplicate	Lab Control Spike	Precision %	Accuracy %	Response %
BOD	mg/l	< 2	1900	2000	2800	2900	1800	3.7	93.5	92.2
COD, titrametric	mg/l	< 5	< 5	500	30	28	550	8.2	102.5	109.3
Oil & Grease	mg/l	< 5	< 5	80	65	65	68	0.6	76.6	79.7
Turbidity	NTU	< 0.1	2.0	40	41	41	39	0.5	98.2	98.5

Notes

Authorized E Amy Ballinger 08/10/2011
Amy Ballinger Chemist

ELAP Accreditation Laboratory Certificate #1203. These results relate only to the samples tested. This report shall not be reproduced except in fullwithout written approval of the laboratory.

J L ANALYTICAL SERVICES, INC.

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Sconza Candy Company
Attn: Jesse Hodges
1 Sconza Candy Lane
Oakdale,CA 95361

Report # L2.2-14R13660
Report Date: 08/10/2011
Received Date: 08/02/2011
Work Order: 246400

Laboratory Number: 24640001
Description: Water, Pond Effluent, 8/2/11, 820

Analytical Results

Constituent		Result		Minimum Level	Method Detection Limit	Method Reference	Analysis Date	Analysis Time	Analyst
BOD		4	mg/l	2.0	1.0	SM 5210B	08/03/2011	11:20	NH
COD, titrametric	<	5	mg/l	5.0	3.0	SM 5220C	08/05/2011	14:40	GP
Oil & Grease	<	5	mg/l	5.0	1.5	EPA 1664A	08/03/2011	14:00	JP

QC Results

Constituent	QC Units	Blank		Matrix	Theoretical Spike	Matrix Spike	Matrix Spike Duplicate	Lab Control Spike	Precision %	Accuracy %	Response %
BOD	mg/l	<	2	2500	2000	3500	3400	1900	2.7	91.2	94.3
COD, titrametric	mg/l	<	5	< 5	500	30	28	550	8.2	102.5	109.3
Oil & Grease	mg/l	<	5	< 5	80	65	65	68	0.6	76.6	79.7

Notes

Authorized E Amy Ballinger 08/10/2011
Amy Ballinger Chemist

ELAP Accreditation Laboratory Certificate #1203. These results relate only to the samples tested. This report shall not be reproduced except in fullwithout written approval of the laboratory.

SIERRA
FOOTHILL LABORATORY Inc

REPORT

255 SCOTTSVILLE BLVD.
P.O. BOX 1268 JACKSON, CA 95642
(209) 223 – 2800
sandy@sierralab.com

8/16/2011

Amended 9-20-11 to correct date of sample collection in first sentence of report

J L Analytical Services Inc
217 Primo Way, Ste 2
Modesto CA 95358

96h Static Screening Acute Bioassay with Fathead Minnow 8/04/11-8/08/11
Sconza Candy Effluent collected 8/04/11 0745
Laboratory # 725567
NPDES# CA000416

Sample description:

One 1-gallon plastic container of Sconza Candy Effluent sample collected 8/04/11 0745 was received at the 8/04/11 1315 via SFL courier. The sample was iced, 0.9C and in good condition. Laboratory # 725567 was assigned to the effluent, and chemical measurements made are summarized on the following report page.

Control/ comparison water was Diluted Mineral Water (dMW) prepared 7/22/11 using 26% Evian and 74% Arrowhead Distilled. Organisms are cultured in dMW.

Testing method closely followed:

EPA 600/4-90/027F Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms. 4th edition.

Endpoint of test is death or 96h. The testing began 8/04/11 1430 and ended 8/08/11 1300. Test chambers were 500ml plastic containing 300ml of test solution. There were two replicate chambers per treatment, with 10 fish per chamber. *Pimephales promelas* (fathead minnow) obtained from EnviroScience, hatched 7/25/11 were used. Organism age was 10d. Temperature was 25C ± 1C. KCl reference toxicant test date was 8/04/11 and data were in control. Test ran without incidence for 96h.

Results:

Treatment	# Organisms	# Replicates	96h % Survival
100% Sconza Candy Pond Effluent collected 8/04/11 0745	20	2	100
dMW Lab Control	20	2	100

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Results are specific to the sample(s) as submitted and only to the parameters reported.
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ELAP #2784, 1113A, 1881

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FOOTHILL LABORATORY Inc

REPORT

255 SCOTTSVILLE BLVD.
P.O. BOX 1268 JACKSON, CA 95642
(209) 223 – 2800
sandy@sierralab.com

8/16/2011
Amended 9-20-11 to correct date of sample collection in first sentence of report

J L Analytical Services Inc
217 Primo Way, Ste 2
Modesto CA 95358

96h Static Screening Acute Bioassay with Fathead Minnow 8/04/11-8/08/11
Sconza Candy Effluent collected 8/04/11 0745
Laboratory # 725567
NPDES# CA000416

Summary:

On 8/04/11 1430, 10d old fathead minnows were exposed to Sconza Candy Effluent collected 8/04/11 0745. The effluent sample was 7h old at test initiation. At 96h test termination, there was 100% survival of organisms exposed to Sconza Candy Effluent collected 8/04/11 0745. There was 100% survival of organisms exposed to laboratory control.

Percent survival of organisms exposed to the Sconza Candy Effluent collected 8/04/11 0745 was not significantly reduced from survival of organisms in lab control.

Summary prepared by:

Sandy Nurse

Sandy Nurse

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ELAP #2784, 1113A, 1881

Sierra Foothill Laboratory, Inc.

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Sierra Foothill Laboratory Inc
P O Box 1268/ 255 Scottsville Blvd
Jackson CA 95642
(T) 209 223-2800 (F) 209 223-2747

JLAN

CUSTOMER NAME: J&L ANALYTICAL for Sconza Candy

ADDRESS: (SHIP) 1400 SOUTH YOSEMITE AVE (MAIL)217 PRIMO WAY

CITY, STATE, ZIP: OAKDALE CA 95361 MODESTO CA 95358

ATTN: JESSE RODGES TERRY MOONEY

NPDES# CA000416

SFL ID#	SOURCE DESCRIPTION	ANALYSIS (x)		SAMPLING & CONTAINER INFORMATION:			
		Chronic*	Acute**	MATRIX	P/G	DATE/HR COLLECTED	BY
725567-01	Sconza Candy		X	WW	Gal P	8/4/11 7:45a	[illegible]
	* NO sample data on bth.						

* *Acute 96h screening bioassay with fathead minnows, EPA 600/4-90/027F

0.9c
6
2nd W

Collection for August 2011 is as follows:

Date
Thurs 8/04/2011 lab picks up on route a City of Oakdale WWTP

Amt. effluent to collect
1 gallon AFSc

Transportation notes: Ice sample after collection. Lab will pickup on route at City of Oakdale WWTP, ice must be present in chest to indicate cooling.

RELINQUISHED BY: [signature] DATE/TIME: 8/4/11 8:15

RECEIVED BY: Lovanna Brown DATE/TIME: 8/4/11 0858

RELINQUISHED BY: DATE/TIME:

RECEIVED BY: [signature] DATE/TIME: 8-4-11 1025

Rel'd [signature] 8-4-11 1315

Rec'd Anne 8-4-11 1315

KD 8-4-11

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Sierra Foothill Laboratory, Inc.

255 Scottsville Blvd
PO Box 1268
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Phone 209/223-2800
Fax 209/223-2747
Email info@sierralab.com

Report Date: 08/16/2011

Client: **JLAN**

J L Analytical Services, Inc.
217 Primo Way, Ste 2
Modesto, CA 95358-

Project Report: **200637**

Results for Project 200637

725567 SCONZA CANDY Liquid Taken: 08/04/2011 0745 By: JH Rec:08/04/2011

NO SAMPLE DATA ON BOTTLE.

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
Acute tox 96h fathead, 4th ed	See Report	%survival			600/4-90/027F,1993	08/08/2011 1400	SFL	
Specific Conductance	256	umhos/cm		1.00	EPA120.1/SM2510B	08/04/2011 1150	N&R	
Alkalinity, Total as CaCO3	92	mg/L		5.0	EPA310.1/SM2320B	08/15/2011 0920	RK	
Hardness as CaCO3	95	mg/L		5.0	SM2340C	08/05/2011 1510	LG	
pH, Lab*	8.2	unit		0.1	SM4500-H+B	08/04/2011 1150	LRN	*past hold
Oxygen, Dissolved, Lab*	8.3	mg/L		0.1	SM4500-O G	08/04/2011 1410	R&N	*past hold
Chlorine Residual,Total, Lab*	<0.10	mg/L		0.10	SM4500Cl G	08/04/2011 1135	LRN	*past hold

Sample Preparation Steps for Project 200637

725567 SCONZA CANDY Liquid Taken: 08/04/2011 0745 By: JH Rec:08/04/2011

Parameter	Result	Unit		Method	Analyzed	By
Nitrogen, Ammonia-N Screen	ND	mg/L	0.50	SFL SOP 125	08/04/2011 1100	LV

SET Quality Control/Quality Assurance for Project 200637

Alkalinity, Total as CaCO3 (Analyzed: 08/15/2011 0920 RK Verified: 08/16/2011 12:49 DEG)

Sample	Type	Result	Value	Unit	Recovery (%)	RPD
	Standard	430	465	mg/L	92.5	
	Blank	<5.0		mg/L		
725029	Duplicate	12	13	mg/L		8.0
725332	Duplicate	10	10	mg/L		0.0
725362	Duplicate	232	232	mg/L		0.0
725579	Duplicate	46	48	mg/L		4.3
725673	Duplicate	68	72	mg/L		5.7
675670	Matrix SPK	64.2	69	mg/L	93	
725233	Matrix SPK	34.0	34	mg/L	100	
725334	Matrix SPK	67.6	69	mg/L	98	
725422	Matrix SPK	32.0	34	mg/L	94	
725428	Matrix SPK	34.0	34	mg/L	100	

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Continued

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255 Scottsville Blvd
PO Box 1268
Jackson, CA 95642

Phone 209/223-2800
Fax 209/223-2747
Email info@sierralab.com

Client: **JLAN**
Project Report: **200637**

Chlorine Residual,Total, Lab*

(Analyzed: 08/04/2011 1135 LRN Verified: 08/05/2011 16:46 KL)

Sample	Type	Result	Value	Unit	Recovery (%)	RPD
	Blank	<0.10		mg/L		
725443	Duplicate	<0.10	<0.10	mg/L		0.0

Oxygen, Dissolved, Lab*

(Analyzed: 08/04/2011 1410 R&N Verified: 08/05/2011 11:54 KL)

Sample	Type	Result	Value	Unit	Recovery (%)	RPD
725568	Duplicate	7.7	7.6	mg/L		1.3

Specific Conductance

(Analyzed: 08/04/2011 1150 N&R Verified: 08/05/2011 11:53 KL)

Sample	Type	Result	Value	Unit	Recovery (%)	RPD
	Standard	105	100	umho/cm	105.0	
725444	Duplicate	200	196	umho/cm		2.0
725574	Duplicate	1412	1412	umho/cm		0.0

Hardness as CaCO3

(Analyzed: 08/05/2011 1510 LG Verified: 08/08/2011 09:53 KL)

Sample	Type	Result	Value	Unit	Recovery (%)	RPD
	Standard	585	598	mg/L	97.8	
	Blank	<5.0		mg/L		
725097	Duplicate	81	83	mg/L		2.4
725365	Duplicate	16	16	mg/L		0.0
725102	Matrix SPK	81.0	88	mg/L	92	
725401	Matrix SPK	85.4	88	mg/L	97	
725577	Matrix SPK	84.5	88	mg/L	96	

pH, Lab*

(Analyzed: 08/04/2011 1150 LRN Verified: 08/05/2011 16:47 KL)

Sample	Type	Result	Value	Unit	Recovery (%)	RPD
	Standard	7.4	7.4	unit	100.0	
725444	Duplicate	6.6	6.6	unit		0.0

ELAP #2784, #1113A, #1881

Sandy Nurse

Sandy Nurse, Lab Director

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Sierra Foothill Laboratory, Inc.

255 Scottsville Blvd.
Jackson, CA 95642

Client: J&L Analytical- Sconza Candy 725567

Test Conducted By: LG/SN/JCM

Exposure Chamber: Capacity 500 mL
Test Solution Volume 300 mL

Feeding Schedule: Not Fed _____
Fed Daily, Siphon Debris Daily _____
Fed Irregularly (.1 mL @46h; Siphon @ 48h) X

Test Period:
Beginning: Date 8-04-11 Time 1430
Ending: Date 8-08-11 Time 1300

Food Used: <24h Artemia Code: 6425
Exposed Organisms: 10/test exposure chamber
Renewal Volume and Date: 100 mLs @ 48h
☐ EPA 600/4-90/027F ☒ EPA 821-R02-012
Temp: 25°C +/- 1 Temp: max.- min. ≤ 3° C

Test Organism:
Species: Pimephales promelas
Age: Hatch Date 7-25-11 10 day old
Source: Enviro Science
Control Water: dMW of 7-22-11
Reference Toxicant Test Date: 8-04-11 Prep Date 7-25-11
KCl Reagent Code 6391 Prep Code 0711- 29

Conc or %	Test Container #	# Dead:				Dissolved oxygen (mg/L):					pH (unit):					EC (µmho/cm):		
		24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	48	96
EFF	8011	0	0	0	0	8.6	7.7	7.7	7.7	7.9	8.2	8.2	8.2	8.2	8.4	256	303	285
	8012	0	0	0	0													
Mortality Check Time/Initials																		

Lab Comments:

Sierra Foothill Laboratory, Inc.
255 Scottsville Blvd.
Jackson, CA 95642

7 of 13

Client: J&L Analytical- Sconza Candy

Test Conducted By: LG/SN/JCM

Exposure Chamber: Capacity 500 mL
Test Solution Volume 300 mL
Feeding Schedule: Not Fed _____
Fed Daily, Siphon Debris Daily _____
Fed Irregularly (.1 mL @46h; Siphon @ 48h) X

Test Period:
Beginning: Date 8-04-11 Time 1430
Ending: Date 8-08-11 Time 1300

Food Used: <24h Artemia Code: 6425
Exposed Organisms: 10/test exposure chamber
Renewal Volume and Date: 100 mLs @ 48h
☐ EPA 600/4-90/027F ☒ EPA 821-R02-012
Temp: 25°C +/- 1 Temp: max.- min. ≤ 3° C

Test Organism:
Species: Pimephales promelas
Age: Hatch Date 7-25-11 10 day old
Source: Enviro Science
Control Water: dMW of 7-22-11
Reference Toxicant Test Date: 8-04-11 Prep Date: 7-25-11
KCl Reagent Code: 6391 Prep Code: 0711-29

Test Cont. number	0h Temp	24h Temp	48h Temp	72h Temp	96h Temp	Total Alkalinity (mg/L as $CaCO_3$) 0h	Total Hardness (mg/L as $CaCO_3$) 0h	Cl_2 (mg/L) 0h	NH_3P (mg/L) 0h
8011 Initial	25.2	25.0	25.0	25.0	24.4	92	95	<0.10	ND

Sierra Foothill Laboratory, Inc.
255 Scottsville Blvd.
Jackson, CA 95642

8 of 13

Client: dMW/Ref Tox

Test Conducted By: LG/SN/JCM

Exposure Chamber: Capacity 500 mL
Test Solution Volume 300 mL

Feeding Schedule: Not Fed ____
Fed Daily, Siphon Debris Daily ____
Fed Irregularly (.1 mL @46h; Siphon @ 48h) X

Test Period:
Beginning: Date 8-04-11 Time 1430
Ending: Date 8-08-11 Time 1300

Food Used: <24h Artemia Code: 6425
Exposed Organisms: 10/test exposure chamber
Renewal Volume and Date: 100 mLs @ 48h
X☐ EPA 600/4-90/027F X☐ EPA 821-R02-012
Temp: 25°C +/- 1 Temp: max.- min. ≤ 3° C

Test Organism:
Species: Pimephales promelas
Age: Hatch Date 7-25-11 10 day old
Source: Enviro Science
Control Water: dMW of 7-22-11
Reference Toxicant Test Date : 8-04-11 Prep Date: 7-25-11
KCl Reagent Code: 6391 Prep Code: 0711-29

Conc or %	Test Container #	# Dead:				Dissolved oxygen (mg/L):					pH (unit):					EC (µmho/cm):		
		24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	48	96
dMW	8001	0	0	0	0	8.2	7.6	7.7	7.6	7.7	8.3	8.2	8.3	8.3	8.2	171	203	179
	8002	0	0	0	0													
KCl 0.25 g/L	8003	0	0	0	0	8.2	7.6	7.7	7.7	7.7	8.3	8.2	8.3	8.3	8.2	640	268	667
	8004	0	0	0	0						8.3							
KCl 0.50 g/L	8005	0	0	0	0	8.3	7.6	7.7	7.7	7.6	8.3	8.2	8.3	8.3	8.2	1070	340	1108
	8006	0	0	0	0													
KCl 1.0 g/L	8007	0	0	0	8 2	8.4	7.5	7.7	7.7	7.6	8.3	8.2	8.3	8.3	8.2	1920	840	1968
	8008	0	0	0	4 3													
KCl 2.0 g/L	8009	10	—	—	—	8.4	7.5	—	—	—	8.2	8.1	—	—	—	3440	1420	—
	8010	9	1	—	—													
Quality Check Initials		1250 JCM	1250 JCM	1000 JCM		LG	LG	JCM	JCM	LG	LG	LG			LG			LG

CETIS Summary Report

Fathead Minnow 96-h Acute Survival Test — **Sierra Foothill Laboratory Inc.**

Batch ID:	09-6642-2243	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	04 Aug-11 14:30	**Protocol:**	EPA/821/R-02-012 (2002)	**Diluent:**	
Ending Date:	08 Aug-11 13:00	**Species:**	Pimephales promelas	**Brine:**	
Duration:	94h	**Source:**	Enviro Sciences Inc, TX	**Age:**	10d

Sample ID:	18-1592-1157	**Code:**	0711-29	**Client:**	Sierra Foothill Laboratory
Sample Date:	04 Aug-11	**Material:**	Potassium chloride	**Project:**	
Receive Date:	04 Aug-11	**Source:**	KCl Reference Toxicant		
Sample Age:	14h	**Station:**			

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
17-6299-7604	96h Survival Rate	0.5	1	0.7071	N/A		Fisher Exact Test

Point Estimate Summary

Analysis ID	Endpoint	Level	gm/L	95% LCL	95% UCL	TU	Method
02-2413-7985	96h Survival Rate	EC50	1.189	1.04	1.36		Spearman-Kärber

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
02-2413-7985	96h Survival Rate	Control Resp	1	0.9 - NL	Yes	Passes Acceptibility Criteria
17-6299-7604	96h Survival Rate	Control Resp	1	0.9 - NL	Yes	Passes Acceptibility Criteria

96h Survival Rate Summary

Conc-gm/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	DMW	2	1	1	1	1	1	0	0	0.0%	0.0%
0.25		2	1	1	1	1	1	0	0	0.0%	0.0%
0.5		2	1	1	1	1	1	0	0	0.0%	0.0%
1		2	0.75	0.7236	0.7764	0.7	0.8	0.05	0.07071	9.43%	25.0%
2		2	0	0	0	0	0	0	0		100.0%

96h Survival Rate Detail

Conc-gm/L	Control Type	Rep 1	Rep 2
0	DMW	1	1
0.25		1	1
0.5		1	1
1		0.8	0.7
2		0	0

CETIS Analytical Report

Fathead Minnow 96-h Acute Survival Test — **Sierra Foothill Laboratory Inc.**

Analysis ID:	02-2413-7985	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	15 Aug-11 13:10	**Analysis:**	Untrimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	09-6642-2243	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	04 Aug-11 14:30	**Protocol:**	EPA/821/R-02-012 (2002)	**Diluent:**	
Ending Date:	08 Aug-11 13:00	**Species:**	Pimephales promelas	**Brine:**	
Duration:	94h	**Source:**	Enviro Sciences Inc, TX	**Age:**	10d
Sample ID:	18-1592-1157	**Code:**	0711-29	**Client:**	Sierra Foothill Laboratory
Sample Date:	04 Aug-11	**Material:**	Potassium chloride	**Project:**	
Receive Date:	04 Aug-11	**Source:**	KCl Reference Toxicant		
Sample Age:	14h	**Station:**			

Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0	0.00%	0.07526	0.02915	1.189	1.04	1.36

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.9 - NL	Yes	Passes Acceptibility Criteria

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value	Grubbs Extreme Value	2.121	2.29	0.1335	No Outliers Detected

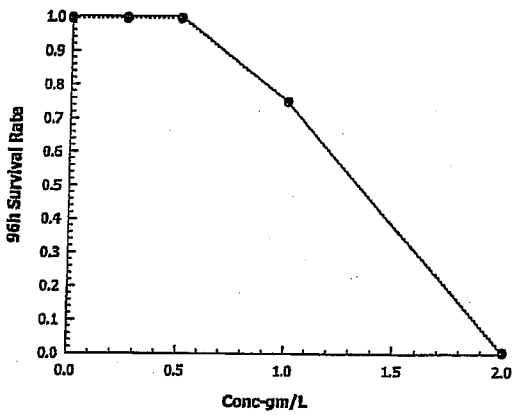
96h Survival Rate Summary

			Calculated Variate(A/B)								
Conc-gm/L	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	DMW	2	1	1	1	0	0	0.0%	0.0%	20	20
0.25		2	1	1	1	0	0	0.0%	0.0%	20	20
0.5		2	1	1	1	0	0	0.0%	0.0%	20	20
1		2	0.75	0.7	0.8	0.05	0.07071	9.43%	25.0%	15	20
2		2	0	0	0	0	0		100.0%	0	20

96h Survival Rate Detail

Conc-gm/L	Control Type	Rep 1	Rep 2
0	DMW	1	1
0.25		1	1
0.5		1	1
1		0.8	0.7
2		0	0

Graphics



CETIS Analytical Report

Report Date: 15 Aug-11 13:10 (p 1 of 1)
Test Code: 080411PA5LRT1 | 01-5259-8065

Fathead Minnow 96-h Acute Survival Test — Sierra Foothill Laboratory Inc.

Analysis ID:	17-6299-7604	Endpoint:	96h Survival Rate	CETIS Version:	CETISv1.8.0
Analyzed:	15 Aug-11 13:09	Analysis:	Single 2x2 Contingency Table	Official Results:	Yes
Batch ID:	09-6642-2243	Test Type:	Survival (96h)	Analyst:	
Start Date:	04 Aug-11 14:30	Protocol:	EPA/821/R-02-012 (2002)	Diluent:	
Ending Date:	08 Aug-11 13:00	Species:	Pimephales promelas	Brine:	
Duration:	94h	Source:	Enviro Sciences Inc, TX	Age:	10d
Sample ID:	18-1592-1157	Code:	0711-29	Client:	Sierra Foothill Laboratory
Sample Date:	04 Aug-11	Material:	Potassium chloride	Project:	
Receive Date:	04 Aug-11	Source:	KCl Reference Toxicant		
Sample Age:	14h	Station:			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU
Untransformed		C > T	Not Run	0.5	1	0.7071	

Fisher Exact Test

Control	vs	Conc-gm/L	Test Stat	P-Value	Decision(0.05)
DMW		0.25	1	1.0000	Non-Significant Effect
		0.5	1	1.0000	Non-Significant Effect
		1	0.02356	0.0236	Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.9 - NL	Yes	Passes Acceptibility Criteria

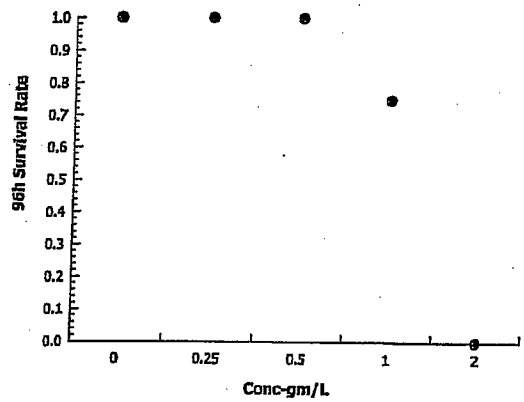
Data Summary

Conc-gm/L	Control Type	No-Resp	Resp	Total
0	DMW	20	0	20
0.25		20	0	20
0.5		20	0	20
1		15	5	20
2		0	20	20

96h Survival Rate Detail

Conc-gm/L	Control Type	Rep 1	Rep 2
0	DMW	1	1
0.25		1	1
0.5		1	1
1		0.8	0.7
2		0	0

Graphics



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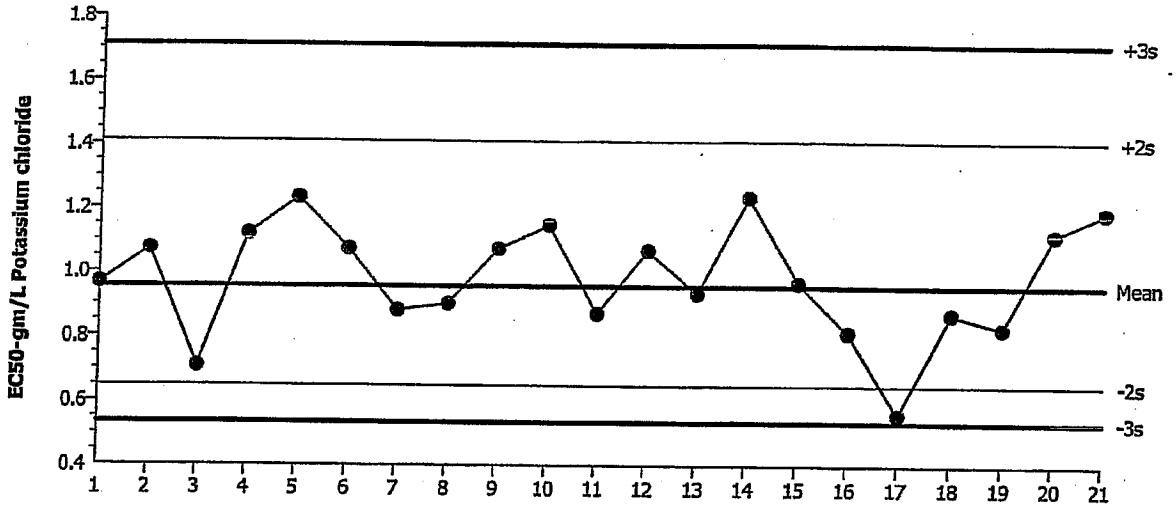
CETIS QC Plot

Report Date: 15 Aug-11 13:11 (1 of 1)

Fathead Minnow 96-h Acute Survival Test — **Sierra Foothill Laboratory Inc.**

Test Type:	Survival (96h)	**Organism:**	Pimephales promelas (Fathead Minn	**Material:**	Potassium chloride
Protocol:	EPA/821/R-02-012 (2002)	**Endpoint:**	96h Survival Rate	**Source:**	KCl Reference Toxicant-RT1

Fathead Minnow 96-h Acute Survival Test



Mean:	0.9547	**Count:**	20	**-2s Warning Limit:**	0.6469	**-3s Action Limit:**	0.5325
Sigma:	N/A	**CV:**	21.50%	**+2s Warning Limit:**	1.409	**+3s Action Limit:**	1.712

Quality Control Data

Point	Year	Month	Day	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID
1	2011	Feb	15	0.9659	0.0112	0.05993			17-6195-7280	03-9107-8564
2			16	1.072	0.117	0.5942			06-5671-2864	10-2487-8187
3			25	0.7071	-0.2476	-1.543			15-4252-8537	09-0293-1438
4		Mar	1	1.118	0.1633	0.8116			05-1161-5369	13-0338-0834
5			9	1.231	0.2764	1.307			20-3224-9970	15-7695-3646
6			15	1.072	0.117	0.5942			11-6948-7973	01-4706-2655
7			16	0.8805	-0.0742	-0.4157			04-5563-5050	02-5202-1790
8		Apr	6	0.9013	-0.05349	-0.2963			15-5427-6829	07-6291-6658
9			12	1.072	0.117	0.5942			10-0204-4934	15-6996-7495
10			19	1.146	0.1911	0.9377			12-9769-3312	08-5775-0461
11			26	0.8706	-0.08419	-0.4744			04-9029-1617	01-3987-8470
12		May	5	1.066	0.1116	0.568			11-3091-3534	20-6934-7500
13			10	0.933	-0.0217	-0.1182			20-6137-7443	14-2897-3259
14			18	1.234	0.279	1.317			12-6961-7174	06-0019-4189
15		Jun	15	0.9659	0.0112	0.05993			12-0730-1833	14-5946-3582
16			22	0.8123	-0.1425	-0.8305			18-1456-7630	07-7482-2179
17		Jul	8	0.5578	-0.3969	-2.761	(-)		06-8630-9874	04-8748-1038
18			12	0.8706	-0.08419	-0.4744			15-1677-0590	02-8297-3214
19			20	0.8265	-0.1283	-0.7415			07-3024-4152	13-2771-3933
20			26	1.118	0.1633	0.8116			16-1357-1431	14-7727-9868
21		Aug	4	1.189	0.2345	1.129			01-5259-8065	02-2413-7985

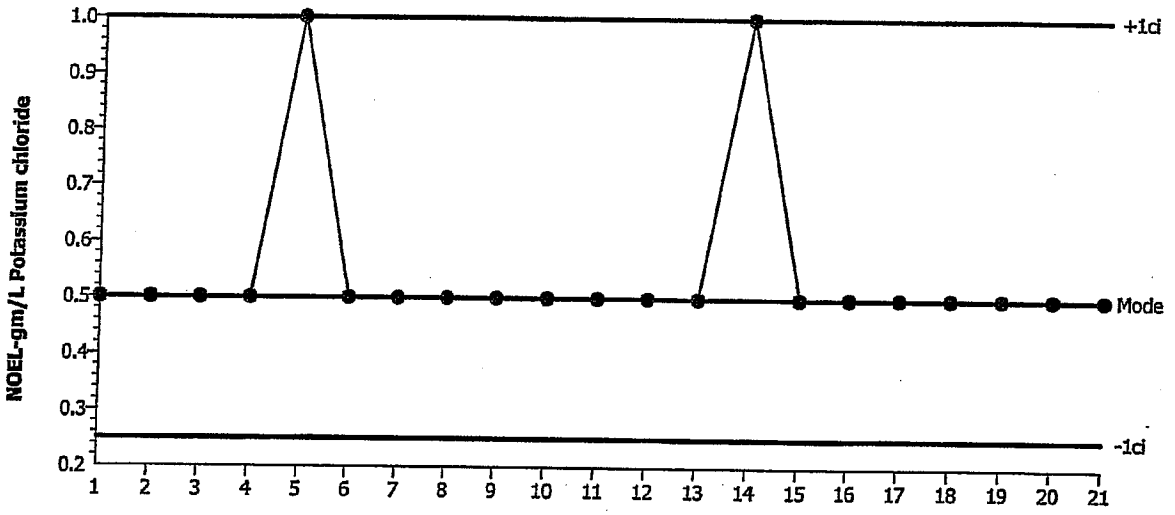
CETIS QC Plot

Report Date: 15 Aug-11 13:12 (1 of 1)

Fathead Minnow 96-h Acute Survival Test — **Sierra Foothill Laboratory Inc.**

Test Type:	Survival (96h)	**Organism:**	Pimephales promelas (Fathead Minn	**Material:**	Potassium chloride
Protocol:	EPA/821/R-02-012 (2002)	**Endpoint:**	96h Survival Rate	**Source:**	KCl Reference Toxicant-RT1

Fathead Minnow 96-h Acute Survival Test



Mode: 0.5 **Count:** 20 **-1ci Action Limit:** 0.25
Dil Fact: 0.5 **+1ci Action Limit:** 1

Quality Control Data

Point	Year	Month	Day	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID
1	2011	Feb	15	0.5	0				17-6195-7280	16-3976-4280
2			16	0.5	0				06-5671-2864	04-6023-9354
3			25	0.5	0				15-4252-8537	05-6416-6587
4		Mar	1	0.5	0				05-1161-5369	04-3056-1547
5			9	1	0.5				20-3224-9970	15-8757-2597
6			15	0.5	0				11-6948-7973	14-4618-6875
7			16	0.5	0				04-5563-5050	05-8801-1472
8		Apr	6	0.5	0				15-5427-6829	05-3552-9022
9			12	0.5	0				10-0204-4934	03-4729-3336
10			19	0.5	0				12-9769-3312	19-7871-1296
11			26	0.5	0				04-9029-1617	07-2802-1526
12		May	5	0.5	0				11-3091-3534	12-7375-8874
13			10	0.5	0				20-6137-7443	09-7249-2003
14			18	1	0.5				12-6961-7174	10-6070-1201
15		Jun	2	0.5	0				21-4067-6835	15-6468-1871
16			15	0.5	0				12-0730-1833	08-0814-2808
17			22	0.5	0				18-1456-7630	01-4648-4358
18		Jul	12	0.5	0				15-1677-0590	01-9307-8648
19			20	0.5	0				07-3024-4152	06-7443-7224
20			26	0.5	0				16-1357-1431	19-1940-6355
21		Aug	4	0.5	0				01-5259-8065	17-6299-7604

Sample Site	Time	Date	Temperature °C	Temperature °F	Conductivity	pH	Dissolved -O2 mg/L	Residual Chlorine PPM	Remarks: Conditions, outside tests, Storm water observations
E	8:20	8/2/11			—		—	—	BOD COD 9.1 + Grease to JL A
R_1	4:35	8/5/11	16.1	61.0	56.83	7.41	9.43	0.00	"Down 19 1/2" Flow 1.33 = 5755 flow
E	4:50		25.7	78.3	248.0	7.90	9.11	0.01	Clear
R_2	5:05		16.7	62.1	66.28	7.46	9.43	0.00	
R_1	2:10	8/12/11	15.7	60.3	56.14	7.73	9.51	0.00	SW - Intermittent Flow down 16½ Flow 1.13 Flow = 5108
E	2:30		24.7	76.5	249.1	~~7.47~~ 7.40	8.29	0.00	
R_2	2:45		16.1	61.0	65.41	~~7.46~~ 7.40 ~~7.81~~	9.70	0.00	SW Flow intermittent
R_1	3:00	8/19/11	15.5	59.9	55.38	7.91	9.25	0.00	down 23 Flow 0.55 Flow = 2213
E	3:20		25.0	77.0	249.8	7.49	8.87	0.01	Clear
R_2			16.0	60.8	67.56	8.07	9.34	0.00	
R_1	4:10	8/26/11	16.2	61.2	56.15	7.95	10.18	0.00	Down: 18" Flow 1.08 Flow = 4757
E	4:25		25.6	78.1	246.9	7.83	8.80	0.01	Clear
R_2	4:35		16.8	62.2	64.15	8.07	9.47	0.00	
Locker room	4:25 a	9/1/11	—	—	—	—	—	0.05	S.W. No Flow Col. Forms to JLA
Dirt Storage	5:00 p.m.		—	—	—	—	—	0.01	" " "

Sample Site	Time	Date	Temperature °C	Temperature °F	Conductivity	pH	Dissolved -O2 mg/L	Residual Chlorine PPM	Remarks: Conditions, outside tests, Storm water observations
R1	3:40	7/22/11	16.4	61.5	56.56	7.93	9.68	0.00	down 21" Flow 0.95=3966 flow
E	3:55		26.0	78.8	243.2	7.72	9.00	0.01	clear
R2	4:10		17.0	62.6	64.70	7.98	9.70	0.00	
R1	1:00	7/29/11	15.6	60.1	56.07	6.59	10.24	0.00	Down 22" Flow 10.83=3402 flow New Cl Res reagents
E	1:20		24.8	76.6	248.7	7.95	8.26	0.01	Clear
R2	1:30		16.2	61.2	64.85	6.96	10.15	0.00	
Well #2	5:50	8/1/11	20.9	69.6	343				SW flowing Drinking Water tests – Coliforms to JLA
Well #3	6:05		18.4	65.1	278				
Well #4	7:10		18.5	65.3	279				
Eggplotch	6:35							0.08	
Shopping	6:50		—	—	—			0.01	
R1	8:15		—	—	—				Turbidity to JLA NPDES
E	8:30		—	—	—				BOD COD oil & Grease Turbidity
R2	8:25		—	—					Turbidity to JLA
Drinking fountain	9:25								Chlorination By products, to JLA (Annual)

COMMENTS:											
PRESENCE/ABSENCE OF SALMONIDS	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
POTENTIAL NUISANCE CONDITIONS	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
FUNGI, SLIMES OR OBJECTIONABLE GROWTH	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
VISIBLE FILMS, SHEENS OR COATINGS	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
AQUATIC LIFE	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
BOTTOM DEPOSITS	Mud/Silt	Mud/Silt	Mud/Silt	Mud/Silt	Mud/Silt	Mud/Silt	Mud/Silt	Mud/Silt	Mud/Silt	Mud/Silt	Mud/Silt
DISCOLORATION	Grey/brown	Grey/brown	Grey/brown	Grey/brown	Grey/brown	Grey/brown	Grey/brown	Grey/brown	Grey/brown	Grey/brown	Grey/brown
FLOATING/SUSPENDED MATTER	Weed litter	Weed litter	Weed litter	Weed litter	Weed litter	Weed litter	Weed litter	Weed litter	Weed litter	Weed litter	Weed litter
DATE SAMPLED	8/5/11	8/5/11	8/5/11	8/5/11	8/5/11	8/5/11	8/5/11	8/5/11	8/5/11	8/5/11	8/5/11