



MSD

Louisville and Jefferson County Metropolitan Sewer District
700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

July 24, 2008

Ms. Kathy Thurman
Kentucky Division of Water
14 Reilly Road
Frankfort, Kentucky 40601

RE: West County Treatment Plant, KPDES No: KY0078956
Discharge Monitoring Report
June 2008

Dear Ms. Thurman:

Attached are the Discharge Monitoring Report (DMR) for the West County Wastewater Treatment Plant, for the month of June 2008. The Whole Effluent Toxicity (WET) test for the second quarter has been electronically submitted.

There is one exceedence for minimum effluent pH. Upon obtaining this result, we immediately retested the effluent pH and found that the effluent pH was in compliance. There was no evidence of the WCWTP being upset. This exceedence possibly indicates that there was a cross contamination in our sample bottle.

If you have any questions concerning the attached DMR's, please contact me at (502)540-6031.

Sincerely,

Kevin D. Ries
Process Supervisor, West Region

KDR/West County 0608.doc

Enclosures

cc: T. Singleton
R. Shaw



Beneficial Use of Louisville's Biosolids
www.louisvillegreen.com



MSD

Louisville and Jefferson County Metropolitan Sewer District
700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

July 24, 2008

Mr. Charlie Roth
Kentucky Division of Water
9116 Leesgate Rd.
Louisville, Kentucky 40222

RE: West County Treatment Plant, KPDES No: KY0078956
Discharge Monitoring Report
June 2008

Dear Mr. Roth:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) report for the West County Wastewater Treatment Plant, for the month of June 2008. There is one exceedence for minimum effluent pH. Upon obtaining this result, we immediately retested the effluent pH and found that the effluent pH was in compliance. There was no evidence of the WCWTP being upset. This exceedence possibly indicates that there was a cross contamination in our sample bottle.

If you have any questions concerning the attached DMR's, please contact me at (502)540-6031.

Sincerely,

Kevin D. Ries
Process Supervisor, West Region

KDR/West County 0608.doc



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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

MAJOR
(SUBR LV)
F - FINAL

JEFFE

NAME MSD WEST COUNTY STP
ADDRESS C/O CEDAR CREEK STP
8405 CEDAR CREEK RD
LOUISVILLE KY 40211
FACILITY MSD WEST COUNTY STP
LOCATION LOUISVILLE KY 40272
ATTN: DENNIS THOMASSON, SR METRO OPS

KY0078956
PERMIT NUMBER

001 2
DISCHARGE NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
08	06	01		08	06	30

MUNICIPAL WASTEWATER
EFFLUENT

*** NO DISCHARGE 1 1 ***

NOTE: Read Instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
OXYGEN, DISSOLVED (DO)		*****	*****		5.1	*****	*****	(19)	0	%/1	GR
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	2 INST MIN	*****	*****	MG/L			DAILY GRAB
BOD, 5-DAY (20 DEG. C)		26149	27306	(26)	*****	169	181	(19)	0	%/1	CP
00310 0 0 0 RAW SEW/INFLUENT	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	MG/L			DAILY COMPOS
BOD, 5-DAY (20 DEG. C)		1413	2139	(26)	*****	9.1	11.0	(19)	0	%/1	CP
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	7506 MO AVG	11259 MX WK AV	LBS/DY	*****	30 MO AVG	45 MX WK AV	MG/L			DAILY COMPOS
PH		*****	*****		5.5	*****	7.5	(12)	1	%/1	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU			DAILY GRAB
SOLIDS, TOTAL SUSPENDED		31151	34406	(26)	*****	200	211	(19)	0	%/1	CP
00530 0 0 0 RAW SEW/INFLUENT	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	MG/L			DAILY COMPOS
SOLIDS, TOTAL SUSPENDED		759	1046	(26)	*****	5.0	7.0	(19)	0	%/1	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	7506 MO AVG	11259 MX WK AV	LBS/DY	*****	30 MO AVG	45 MX WK AV	MG/L			DAILY COMPOS
NITROGEN, AMMONIA TOTAL (AS N)		2574	2800	(26)	*****	16.5	17.9	(19)	0	%/1	CP
00610 0 0 0 RAW SEW/INFLUENT	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	MG/L			DAILY COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
H.J. Schardein
Exec. Director
TYPED OR PRINTED

I certify under penalty of 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. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, 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.

Kent D. Pies
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE 502 540-6000
DATE 08 07 23
AREA CODE NUMBER YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

USE MO AVG FOR BOD/TSS REMV; REPT IN MINIMUM COLUMN.

Effluent pH exceedance, see cover letter for explanation.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME MSD WEST COUNTY STP
ADDRESS C/O CEDAR CREEK STP
8405 CEDAR CREEK RD
LOUISVILLE KY 40211
FACILITY MSD WEST COUNTY STP
LOCATION LOUISVILLE KY 40272
ATTN: DENNIS THOMASSON, SR METRO OPS

KY0078956
PERMIT NUMBER

001 2
DISCHARGE NUMBER

MAJOR (SUBR LV)
F - FINAL JEFFE

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
08	06	01		08	06	30

MUNICIPAL WASTEWATER
EFFLUENT

*** NO DISCHARGE 1 1 ***

NOTE: Read Instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
NITROGEN, AMMONIA TOTAL (AS N) 00610 1 0 0 EFFLUENT GROSS VALUE	756	960	(26)	*****	4.9	6.3	(19)	0	%	CP	
PERMIT REQUIREMENT	5004	7506	LBS/DY	*****	20	30	MG/L		DAILY	COMPOS	
NITROGEN, KJELDAHL TOTAL (AS N) 00625 1 0 0 EFFLUENT GROSS VALUE	797	876	(26)	*****	5.4	5.4	(19)	0	%	CP	
PERMIT REQUIREMENT	REPORT	REPORT	LBS/DY	*****	REPORT	REPORT	MG/L		WEEKLY	COMPOS	
PHOSPHORUS, TOTAL (AS P) 00665 1 0 0 EFFLUENT GROSS VALUE	194	232	(26)	*****	1.3	1.6	(19)	0	%	CP	
PERMIT REQUIREMENT	REPORT	REPORT	LBS/DY	*****	REPORT	REPORT	MG/L		WEEKLY	COMPOS	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 0 0 0 RAW SEW/INFLUENT	18.9	23.2	(03)	*****	*****	*****	*****	0	CN	CN	
PERMIT REQUIREMENT	REPORT	REPORT	MGD	*****	*****	*****	*****		CONTIN	CONTIN	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	18.7	23.4	(03)	*****	*****	*****	*****	0	CN	CN	
PERMIT REQUIREMENT	REPORT	REPORT	MGD	*****	*****	*****	*****		CONTIN	CONTIN	
CHLORINE, TOTAL RESIDUAL 50060 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	<0.010	(19)	0	%	GR	
PERMIT REQUIREMENT	*****	*****	*****	*****	*****	0.019	MG/L		DAILY	GRAB	
COLIFORM, FECAL GENERAL 74055 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	6	12	(13)	0	%	GR	
PERMIT REQUIREMENT	*****	*****	*****	*****	200	400 #/	100ML		DAILY	GRAB	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
H.J. Schardein
Exec. Director
TYPED OR PRINTED

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Signature of Principal Executive Officer or Authorized Agent
Kevin D. Pies

TELEPHONE: 502 540-6000
DATE: 08 07 23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
USE MD AVG FOR BOD/TSS REMV; REPT IN MINIMUM COLUMN.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

MAJOR (SUBR LV)
F - FINAL
MUNICIPAL WASTEWATER EFFLUENT

JEFFE

*** NO DISCHARGE [] ***

NOTE: Read Instructions before completing this form.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME MSD WEST COUNTY STP
ADDRESS C/O CEDAR CREEK STP
8405 CEDAR CREEK RD
LOUISVILLE KY 40211
FACILITY MSD WEST COUNTY STP
LOCATION LOUISVILLE KY 40272
ATTN: DENNIS THOMASSON, SR METRO OPS

KY0078954
PERMIT NUMBER

001 2
DISCHARGE NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
08	06	01		08	06	30

FROM

TO

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY PERCENT REMOVAL	SAMPLE MEASUREMENT	*****	*****		95	*****	*****	(23)		01/30	CA
BIO10 K O O PERCENT REMOVAL	PERMIT REQUIREMENT	*****	*****	****	85 MO AVG	*****	*****	PER-CENT		ONCE/MONTH	CALC'D
SOLIDS, SUSPENDED PERCENT REMOVAL	SAMPLE MEASUREMENT	*****	*****		98	*****	*****	(23)		01/30	CA
BIO11 K O O PERCENT REMOVAL	PERMIT REQUIREMENT	*****	*****	****	85 MO MIN	*****	*****	PER-CENT		ONCE/MONTH	CALC'D
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
H.J. Schardein
Exec. Director
TYPED OR PRINTED

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Kevin D. Pies
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE DATE
382-546-6000 08 07 23
AREA CODE NUMBER YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
USE MO AVG FOR BOD/TSS REMV; REPT IN MINIMUM COLUMN.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

MAJOR
(SUBR LV)
F - FINAL

JEFFE

KY0078954
PERMIT NUMBER

001 B
DISCHARGE NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
08	06	01		08	06	30

FROM

TO

REASONABLE POTENTIAL
EFFLUENT

*** NO DISCHARGE [] ***

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME MSD WEST COUNTY STP
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8405 CEDAR CREEK RD
LOUISVILLE KY 40211
FACILITY MSD WEST COUNTY STP
LOCATION LOUISVILLE KY 40272
ATTN: DENNIS THOMASSON, SR METRO OPS

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
CHROMIUM, HEXAVALENT (AS CR) 01032 1 0 0 EFFLUENT GROSS VALUE		*****	*****		*****	<0.010	<0.010	(19)		0 1/30	CP
	SAMPLE MEASUREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT DAILY MX	MG/L		ONCE/MONTH	COMPOS
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
H.J. Schardein
Exec. Director
TYPED OR PRINTED

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Kenn D. Res
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE 582 540-6000
DATE 08 07 23
AREA CODE NUMBER YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

MAJOR
(SUBR LV)
F - FINAL
BIOMONITORING/METALS/QUARTERLY
EFFLUENT

*** NO DISCHARGE [] ***

NOTE: Read Instructions before completing this form.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME MSD WEST COUNTY STP
ADDRESS C/O CEDAR CREEK STP
8405 CEDAR CREEK RD
LOUISVILLE KY 40211
FACILITY MSD WEST COUNTY STP
LOCATION LOUISVILLE KY 40272
ATTN: DENNIS THOMASSON, SR METRO OPS

KY0078954
PERMIT NUMBER

001 Y
DISCHARGE NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
08	04	01		08	06	30

FROM

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
HARDNESS, TOTAL (AS CaCO3) 00900 1 0 0 EFFLUENT GROSS VALUE		*****	*****		*****	238	238	(17)	0	01/90	G2
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MD AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB-2
ZINC TOTAL RECOVERABLE 01094 1 0 0 EFFLUENT GROSS VALUE		*****	*****		*****	0.0435	0.0435	(17)	0	01/90	G2
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MD AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB-2
CADMIUM TOTAL RECOVERABLE 01113 1 0 0 EFFLUENT GROSS VALUE		*****	*****		*****	<0.0001	<0.0001	(17)	0	01/90	G2
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MD AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB-2
LEAD TOTAL RECOVERABLE 01114 1 0 0 EFFLUENT GROSS VALUE		*****	*****		*****	<0.005	<0.005	(17)	0	01/90	G2
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MD AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB-2
COPPER TOTAL RECOVERABLE 01119 1 0 0 EFFLUENT GROSS VALUE		*****	*****		*****	0.008	0.008	(17)	0	01/90	G2
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MD AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB-2
TOXICITY, FINAL CONC TOXICITY UNITS 01406 1 0 0 EFFLUENT GROSS VALUE		*****	*****		*****	*****	<1.00	(2F)	0	01/90	G2
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	1.00 ACUTE DAILY MX TOXCTY			QTRLY	GRAB-2
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
H.J. Scharlem
Exec. Director
TYPED OR PRINTED

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Signature of Principal Executive Officer or Authorized Agent
Kent D. Rice

TELEPHONE: 562-540-6000
DATE: 08 07 23
AREA CODE: NUMBER: YEAR: MO: DAY:

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Name of Sewage Treatment Plant: West County WTP Jefferson County Month of: June 2008

KPDES Permit Number: KY0078956 Plant Capacity: 30 MGD Receiving Stream: Ohio River

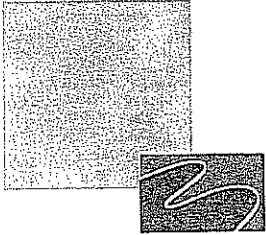
Date	Total Flow (MG)	Raw Sewage		pH			Settleable Solids (mL/L)			Dissolved Oxygen (mg/L)			Suspended Solids (mg/L)			Total Solids (mg/L)			5-day BOD (mg/L)			Activated Sludge		Aeration Basin					Dig Sludge		Final				
		Grit Removed (cu ft)	Screenings (cu ft)	Raw	Final	Raw	Primary (or Sec.)	Final	Stream Above	Final	Stream Below	Raw	Primary (or Sec.)	Final	Raw	Primary (or Sec.)	Final	Raw	Primary (or Sec.)	Final	Million Gall/Day	MLSS mg/L X 1000	Gall/Day X 1000	Oxygen (mg/L) #1	Oxygen (mg/L) #2	MLSS (mg/L) X 1000 #1	MLVSS (mg/L) X 1000 #1	30 min. Sett.	SVI	% Solids	Phosphorus (mg/L)	TKN (mg/L)	Chlorine Residual (mg/L)	NH3-N (mg/L)	Fecal Coliform /100ml
1	19.44			7.3	7.4					6.8		218		3			179		5		3520					2060	1580	150.0	0.07			5.40	0.01	4.00	2
2	19.18			7.5	7.3					6.9		218		3			179		7		3470					2160	1650	160.0	0.07				0.01	5.10	21
3	23.35			7.1	7.2					6.0		222		4			151		9		3880					1990	1560	150.0	0.08	0.87		0.01	3.40	1	
4	20.94			8.0	7.1					5.5		192		3			140		7		3330					1840	1420	150.0	0.08			0.01	3.70	1	
5	20.30			7.3	7.1					5.5		182		3			156		8		3190					1810	1400	150.0	0.08			0.01	3.10	7	
6	18.65			7.5	7.1					6.7		194		3			159		9		3140					1850	1470	150.0	0.08			0.01	2.70	1	
7	18.77			7.2	7.3					6.4		210		4			182		8		3350					1980	1550	150.0	0.08			0.01	3.60	1	
8	17.17			7.2	7.4					6.4		200		3			198		9		3050					2330	1870	150.0	0.06		5.40	0.01	4.00	4	
9	18.20			7.4	7.3					6.8		188		3			156		8		2940					2090	1500	150.0	0.07			0.01	4.40	88	
10	17.79			7.4	5.5					6.1		192		6			153		10		3010					1810	1430	150.0	0.08	1.31		0.01	4.00	883	
11	17.18			7.4	7.3					5.9		200		4			170		6		2990					1730	1390	150.0	0.09			0.01	4.20	9	
12	18.53			7.2	7.0					6.0		212		5			170		8		3170					1740	1390	150.0	0.09			0.01	5.10	4	
13	20.53			7.1	6.9					6.0		84		6			102		7		3400					1640	1280	140.0	0.09			0.01	5.80	1	
14	21.50			7.1	7.3					5.7		154		5			158		5		3230					1440	1180	140.0	0.10			0.01	5.20	6	
15	17.86			7.1	7.0					5.7		348		6			204		9		3600					2080	1590	160.0	0.08			0.01	6.70	72	
16	19.37			7.1	7.0					5.4		176		8			164		9		4020					2010	1580	150.0	0.07			0.01	6.00	1	
17	17.80			7.3	7.1					5.4		196		7			167		13		3610					1650	1300	150.0	0.09	1.56		0.01	6.20	7	
18	17.30			7.1	7.0					5.5		190		8			185		8		3400					1450	1120	150.0	0.10			0.01	6.00	1	
19	17.51			7.1	7.3					5.8		178		7			221		13		3770					1510	1260	140.0	0.09			0.01	7.00	3	
20	18.79			7.1	7.3					7.4		180		7			138		10		3350					1530	1220	140.0	0.09			0.01	5.60	11	
21	19.74			7.9	7.4					7.0		214		5			156		9		3500					1620	1340	140.0	0.09			0.01	6.00	15	
22	18.79			7.1	7.0					6.7		214		7			161		12		3300					1850	1435	150.0	0.08			0.01	6.70	3	
23	18.32			7.2	7.4					6.5		176		4			180		14		3270					1880	1470	150.0	0.08			0.01	5.90	6	
24	16.88			7.1	7.1					6.1		202		4			164		11		3220					1710	1380	150.0	0.09	1.28		0.01	4.70	6	
25	16.46			7.1	7.2					5.1		204		7			200		10		2950					1750	1430	160.0	0.09			0.01	4.10	15	
26	17.40			7.3	6.9					5.4		222		7			202		12		2790					1940	1530	140.0	0.07			0.01	4.50	36	
27	17.45			7.3	6.9					5.4		206		5			162		11		2670					1520	1280	150.0	0.10		4.70	0.01	4.00	53	
28	21.34			7.0	7.1					5.6		186		5			160		8		2850					1650	1270	140.0	0.08			0.01	4.20	10	
29	17.79			7.0	7.1					5.4		224		4			173		10		2820					1660	1290	140.0	0.08		6.00	0.01	4.60	6	
30	17.44			7.0	6.9					7.1		192		3			178		9		2630					1550	1240	140.0	0.09			0.01	5.10	2	
31	0.00																												#VALUE!						
Total	561.8	0	0																	0.0		0.0													
Avg.	18.12			7.3	7.1					6.1		199		5						169						1794.33	1413.50	148.00	#VALUE!	1.26	5.38	0.01	4.85	6	

Total Number of Sewer Connections: 0 Industrial Waste Population Equivalent _____ Operator Donald Rheinaender Jr
 Residential Connections: _____
 Commercial Connections: _____ Flow 172587 BOD 150186 TSS 143314 Cert # 16499
 Industrial Connections: _____
 Sewer Connections X 4 = 0 Phone # 502-540-6042

NAME OF SEWAGE TREATMENT PLANT WEST COUNTY WTP

Month of: June 2008
 Average Flow 18.73 MGD

Date	Weather Data			Remarks
	High	Low	Rainfall	
1				
2				
3				took #3 Bar Screen O/S fo maintenance to work on convayor system.
4				#2 Grit Classifier was clogged took out , maint. Unclogged
5				
6				Did Bio monitor sampling
7				
8				
9				
10				
11				
12				
13				Took #1 clar. o/s to clean and P.M
14				Put #1 clar. Back in service.
15				Took #5 clar. o/s to clean for contractors to check out.
16				Maint. Working on #3 clar. Skimmer
17				
18				
19				Took #3 clar o/s so maint. Can P.M
20				Increased flow from clarifiers from 4000 to 5000
21				Took #3 Bar Screen o/s for the contractors to install new screen
22				
23				
24				
25				
26				
27				
28				Took #4,5&6 clarifiers o/s, and had them cleaned for the contractors
29				
30				
31				
Total			0	
Avg.				



**Acute Toxicity Evaluation
for the
MSD – West County
Wastewater Treatment Plant**

June 2008

Prepared by:

Beckmar Environmental Laboratory
Biomonitoring Department
3251 Ruckriegel Parkway
Louisville, KY. 40299
(502) 266-6533

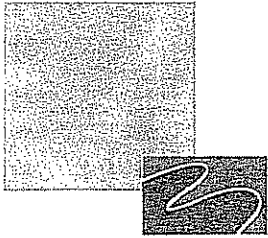
Submitted to:

Mr. Kevin Ries
West County Wastewater Treatment Plant
700 West Liberty St.
Louisville, KY. 40203

Released by:

Amanda L. Spalding
Biomonitoring QA Officer

7-3-08



Summary

Acute toxicity testing was performed on final effluent samples collected June 6, 2008 from the MSD West County Wastewater Treatment Plant. Testing was performed June 7 through 9, 2008 and upon termination, the following conclusions were reached:

For the 48-hour *Ceriodaphnia dubia* survival test, the LC_{50s} for survival for samples "A" and "B" were greater than 100% effluent, generating an acute toxicity value of less than 1.00 TUa (TUa=100/LC₅₀).

For the 48-hour *Pimephales promelas* survival test, the LC_{50s} for survival for samples "A" and "B" were greater than 100% effluent, generating an acute toxicity value of less than 1.00 TUa (TUa=100/LC₅₀).

Introduction

At the request of Mr. Kevin Ries, acute toxicity testing was performed on two grab effluent samples collected June 6, 2008 from the MSD West County Wastewater Treatment Plant in Louisville, KY. Metals analyses were also performed on effluent samples collected during the same time period. Information concerning plant and laboratory conditions can be found on the following pages.

The acute toxicity testing was performed in accordance with the US EPA methodology as defined in the US EPA manual "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms" fifth edition, 2002 (EPA-821-R-02-012). The acute toxicity tests were performed in order to ascertain the LC₅₀ values for *Ceriodaphnia dubia* and *Pimephales promelas* survival.



Date of Issue: June 23, 2008

Page 1 of 1

Metropolitan Sewer District c/o Mr. Kevin Ries
700 West Liberty St.
Louisville, KY 40203-1913

RE: Analysis results for: West County WWTP: Biomonitoring metals/hardness.

BECKMAR CERTIFICATE OF ANALYSIS # 200529

Sample Date: 6/6/2008

Sample Time: 20:00

Sampled by: Kenneth Jones

Parameter	Results	Units	Type	Method	Analized Date / Time	Analyst
Hardness (T)	238	mg/l	C	EPA 130.2	6/12/2008 14:30	BWK
Cadmium (gfaa)	< 0.0001	mg/l	C	EPA 200.7	6/10/2008 7:30	ALS
Copper (TR)	0.008	mg/l	C	EPA 200.7	6/9/2008 16:00	ALS
Lead (TR)	< 0.005	mg/l	C	EPA 200.7	6/9/2008 16:00	ALS
Zinc (TR)	0.0435	mg/l	C	EPA 200.7	6/9/2008 16:00	ALS

Remarks:

If you have any questions please call.

Thank you,

Joe P. Carney
Quality Control Officer

JPC:dwt

ENVIRONMENTAL
LABORATORY

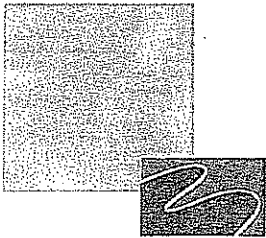
Jeffersontown Business Park

3251 Ruckriegel Parkway

Jeffersontown, KY 40299

502.266.6533

FAX 502.266.6446



Test Type: Acute X Screen
Chronic Definitive X

TOXICITY TEST REPORT SHEET

- 1) Facility/Discharger: MSD West County WWTP Report Date: 7/2/2008
- 2) Address: 11601 Lower River Rd. Louisville, KY. 40272
- 3) NPDES Permit #: KY0078956 4) Receiving Stream: Ohio River @ mile 358.1
- 5) Facility Contact: Mr. Kevin Ries
- 6) Phone #: (502)-540-6031
- 7) Consultant/Testing Lab Name: Beckmar Environmental Laboratory
- 8) Lab Contact: Becky Barker Phone #: (502) 266-6533
- 9) Outfall(s) Tested: 1
- 10) Average Daily flow on day sampled (MGD) 1) na 2) na
3) 4) 5) 6) 7)
- 11) Test Species: 1) Ceriodaphnia dubia 2) Pimephales promelas
- 12) Species Age: 1) < 24 hours 2) 4 days old
- 13) Organism Source: 1) lab culture 2) fish hatch 060308
- 14) Acclimation Procedures: 1) Reared at test conditions in synthetic water
2) Reared at test conditions in synthetic water
- 15) Test Conditions: Static: X Static-Renewal:
- 16) Dilution Water Type (Synthetic, Receiving Stream) synthetic - mhs
- 17) Aeration? (Before Test/During Test/None): no
- 18) Dechlorination? no Original Chlorine Level: <0.01 mg/L

Rhonda Baker

(Signature of person filling out form)

7/2/2008

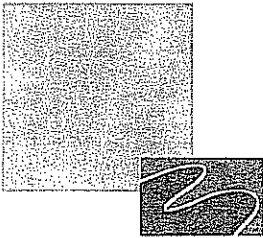
Date

Rhonda Baker

Name (Typed or Printed)

Biologist

Title



Materials and Methods

Sampling

Two samples were collected twelve hours apart (Table I) and delivered to Beckmar Environmental Laboratory. Upon receipt, the sample went through standard log in procedures.

Control/Dilution Water

All chemicals used are reagent grade, obtained from Aldrich. 1.20 grams of CaSO_4 , 1.2 grams of MgSO_4 , 1.92 grams of NaHCO_3 , and 0.080 grams of KCl were dissolved in distilled water provided by a Barnstead Thermolyne distillation system and aerated for a minimum of 24 hours.

Test Containers

C. dubia tests were performed in 1 ounce plastic cups obtained from Plastics Inc. (St. Paul, MN). *Pimephales promelas* tests were performed in 600 mL plastic cups obtained from Liquor Outlet (Louisville, KY).

Toxicity Testing

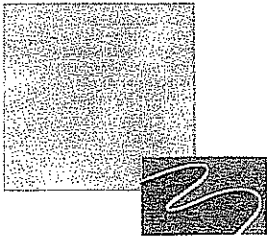
The sample was allowed to warm to room temperature (25°C) and was tested for residual chlorine immediately prior to dilution. Testing was then performed in accordance with US EPA methodology. Data was recorded on Beckmar generated lab sheets (Appendix I).

Chemical Analysis

All test dilutions as well as control/dilution water were tested to determine initial dissolved oxygen, temperature, and pH. At the end of 48 hours, the control/dilution water and test dilutions were again tested to determine final dissolved oxygen, temperature and pH. Also, specific conductance, hardness, and alkalinity analyses were performed on the initial control/dilution water and 100% sample. Data was recorded on Beckmar generated lab sheet (Appendix I).

Statistical Analysis

Statistical data was generated using ToxCalc 5.0[®] (Tidepool Scientific software, McKinleyville, CA) and ToxStat[®] (USEPA, Cincinnati, OH) on a Pentium IV[®], computer using Windows 98[®] Operating System.



Additional Toxicity Test Information

- 1) Submit copies of all bench sheets and statistical calculations/printouts obtained during the test(s). Data must be presented in tabular form and must include all physical and/or chemical measurements recorded during the test (e.g. temperature, conductivity, total residual chlorine, dissolved oxygen, etc.).

- 2) Methods/Instrumentation used in chemical analysis:

Dissolved Oxygen/temperature:	YSI Model 52
PH:	Orion Model 720A
Conductivity:	Oakton CON 100 Series
Alkalinity:	Standard Methods Titration
Hardness:	Standard Methods Titration
Total Chlorine Residual:	Fisher-Porter Titration
EPA Acute/Chronic Manual:	5th Acute Edition, 2002

- 3) Indicate below any other relevant information that may aid in the evaluation of this report. Include any deviations from EPA methodology that was necessary for these tests as well as any sample manipulations that were performed, such as aeration, dechlorination with sodium thiosulfate, etc., and the justification for such manipulations or deviations. Attach additional pages as needed.

- 4) Sample temperature upon receipt may be greater than 4°C. Samples are picked up immediately after the final grab sample is collected. The samples are refrigerated; however it may be impossible to rapidly drop the effluent to 4°C.

TABLE I
Sampling Summary

Outfall	Sample Type	Volume	Collection Period	Rainfall	Sample Temp
1	Grab	2 gallon	06/06/08 @ 8:00 A.M.	NA	3.0 degrees C
	Grab	2 gallon	06/06/08 @ 8:00 P.M.	NA	3.0 degrees C

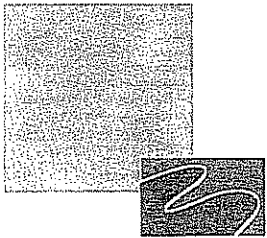
Dates/Times of Test Performance

Species #1: *Ceriodaphnia dubia*

Initiated: 06/07/08 @ 2:00 P.M.
Terminated 06/09/08 @ 2:00 P.M.

Species #2: *Pimephales promelas*

Initiated: 06/07/08 @ 2:00 P.M.
Terminated 06/09/08 @ 2:00 P.M.



Results

In sample "A", *Ceriodaphnia dubia* test exhibited 100% survival in the control, 100% survival in the 20% dilution, 100% survival in the 40% dilution, 100% survival in the 60% dilution, 100% survival in the 80% dilution, and 95% survival in the 100% dilution.

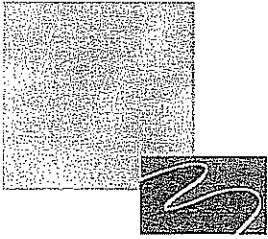
In sample "B", *Ceriodaphnia dubia* test ran exhibited 100% survival in the control, 95% survival in the 20% dilution, 100% survival in the 40% dilution, 100% survival in the 60% dilution, 100% survival in the 80% dilution, and 100% survival in the 100% dilution.

For the 48-hour *Ceriodaphnia dubia* survival test, the LC50s for survival for samples "A" and "B" were greater than 100% effluent, generating an acute toxicity value of less than 1.00 TUa.

In sample "A", the *Pimephales promelas* test ran exhibited 100% survival in the control, 100% survival in the 20% dilution, 100% survival in the 40% dilution, 100% survival in the 60% dilution, 100% survival in the 80% dilution, and 100% survival in the 100% dilution.

In sample "B", the *Pimephales promelas* test exhibited 100% survival in the control, 100% survival in the 20% dilution, 100% survival in the 40% dilution, 100% survival in the 60% dilution, 100% survival in the 80% dilution, and 100% survival in the 100% dilution.

For the 48-hour *Pimephales promelas* survival test, the LC50s for survival for samples "A" and "B" were greater than 100% effluent, generating an acute toxicity value of less than 1.00 TUa.



Appendix I

Ceriodaphnia dubia Data Sheets

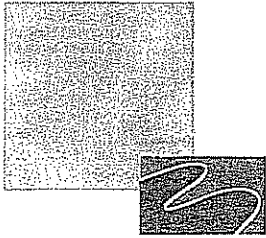
Ceriodaphnia Survival and Reproduction Test-48 Hr Survival

Start Date: 6/7/2008	Test ID: westa0608	Sample ID: westa0608
End Date: 6/9/2008	Lab ID: 0044:beckmar environmental	Sample Type: EFF1-POTW
Sample Date: 6/6/2008	Protocol: EPAF 94-EPA Freshwater	Test Species: CD-Ceriodaphnia dubia
Comments: Westco am cerio acute June 2008		

Conc-%	1	2	3	4
B-Control	1.0000	1.0000	1.0000	1.0000
20	1.0000	1.0000	1.0000	1.0000
40	1.0000	1.0000	1.0000	1.0000
60	1.0000	1.0000	1.0000	1.0000
80	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000	0.8000	1.0000

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root				CV%	N
			Mean	Min	Max			
B-Control	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4	
20	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4	
40	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4	
60	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4	
80	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4	
100	0.9500	0.9500	1.2857	1.1071	1.3453	9.261	4	

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.01)	0.46508	0.884	-3.0206	13.9892
Equality of variance cannot be confirmed				



Grab # A

Toxicity Test Results

Results of *Ceriodaphnia dubia* 48 HR. ACUTE Toxicity Test
 (Genus) (Species) (Type / Duration)

Conducted: 06/07/08 -- 06/09/08 Using Effluent from Outfall # 1
 (mm/dd/yy) (mm/dd/yy)

Capped	Percent Survival (time intervals used:- DAY)								# of Young		Dry Weight	
	1	2	3	4	5	6	7	8	Total	Mean	Total	Mean
Control	100	100										
20% Effluent	100	100										
40% Effluent	100	100										
60% Effluent	100	100										
80% Effluent	100	100										
100% Effluent	100	95										
LC ₅₀ / IC ₂₅ Value: <u>>100%</u> 95% Confidence Limits UL: <u>na</u> LL: <u>na</u> UL = Upper Limit LL = Lower Limit								Calculated TU Estimate * <u><1.00 Tu</u> (indicate Acute / Chronic) Permit Limits: <u>1.00 Tu</u> (Indicate TU _a / TU _c)				
								If acute test, method used to determine LC50 and Confidence Limit Valued:				

Note: TU_a = 100/LC₅₀; TU_c = 100/IC₂₅

Reference Toxicant Test Results					
Species	Date	Time	Duration	Toxicant	Results (LC ₅₀ / IC ₂₅)
<i>C. dubia</i>	05/23/08	11:00 A.M.	<u>48 hrs.</u>	<u>NaCl</u>	LC50=2.1865g/l

Ceriodaphnia Survival and Reproduction Test-48 Hr Survival

Start Date: 6/7/2008	Test ID: westb0608	Sample ID: westb0608
End Date: 6/9/2008	Lab ID: 0044:beckmar environmental	Sample Type: EFF1-POTW
Sample Date: 6/6/2008	Protocol: EPAF 94-EPA Freshwater	Test Species: CD-Ceriodaphnia dubia
Comments: westco pm cerio acute june 2008		

Conc-%	1	2	3	4
B-Control	1.0000	1.0000	1.0000	1.0000
20	1.0000	0.8000	1.0000	1.0000
40	1.0000	1.0000	1.0000	1.0000
60	1.0000	1.0000	1.0000	1.0000
80	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000	1.0000	1.0000

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root				CV%	N
			Mean	Min	Max			
B-Control	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4	
20	0.9500	0.9500	1.2857	1.1071	1.3453	9.261	4	
40	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4	
60	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4	
80	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4	
100	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	4	

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.01)	0.46508	0.884	-3.0206	13.9892
Equality of variance cannot be confirmed				

Grab # B

Toxicity Test Results

Results of *Ceriodaphnia dubia* 48 HR. ACUTE Toxicity Test
 (Genus) (Species) (Type / Duration)

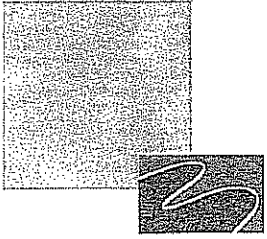
Conducted: 06/07/08 -- 06/09/08 Using Effluent from Outfall # 1
 (mm/dd/yy) (mm/dd/yy)

Capped	Percent Survival (time intervals used:- DAY)								# of Young		Dry Weight	
	1	2	3	4	5	6	7	8	Total	Mean	Total	Mean
Control	100	100										
20% Effluent	100	95										
40% Effluent	100	100										
60% Effluent	100	100										
80% Effluent	100	100										
100% Effluent	100	100										
LC ₅₀ / IC ₂₅ Value: <u>>100%</u> 95% Confidence Limits UL: <u>na</u> LL: <u>na</u> UL = Upper Limit LL = Lower Limit								Calculated TU Estimate * <u><1.00 Tu_a</u> (indicate Acute / Chronic) Permit Limits: <u>1.00 Tu_a</u> (Indicate TU _a / TU _c)				
								If acute test, method used to determine LC50 and Confidence Limit Valued:				

Note: TU_a = 100/LC₅₀; TU_c = 100/IC₂₅

Reference Toxicant Test Results

Species	Date	Time	Duration	Toxicant	Results (LC ₅₀ / IC ₂₅)
<i>C. dubia</i>	05/23/08	11:00 A.M.	<u>48 hrs.</u>	<u>NaCl</u>	LC50=2.1865g/l



Appendix II

Pimephales promelas
Data Sheets

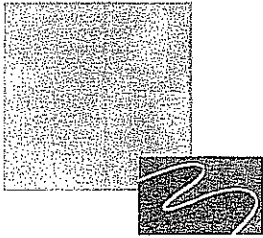
Larval Fish Growth and Survival Test-48 Hr Survival

Start Date: 6/7/2008 Test ID: westafn68 Sample ID: westafn68
 End Date: 6/9/2008 Lab ID: 0044:beckmar environmental Sample Type: EFF1-POTW
 Sample Date: 6/6/2008 Protocol: EPAF 94-EPA Freshwater Test Species: PP-Pimephales promelas
 Comments: westgo am fhm acute june 2008

Conc-%	Survival	N
B-Control	1.0000	1.0000
20	1.0000	1.0000
40	1.0000	1.0000
60	1.0000	1.0000
80	1.0000	1.0000
100	1.0000	1.0000

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root				
			Mean	Min	Max	CV%	N
B-Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2
20	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2
40	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2
60	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2
80	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2
100	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Normality of the data set cannot be confirmed				
Equality of variance cannot be confirmed				



Grab # A

Toxicity Test Results

Results of *Pimephales* *promelas* 48 HR. ACUTE Toxicity Test
 (Genus) (Species) (Type / Duration)

Conducted: 06/07/08 -- 06/09/08 Using Effluent from Outfall # 1
 (mm/dd/yy) (mm/dd/yy)

Test Solution	Percent Survival (time intervals used:- DAY)								# of Young		Dry Weight	
	1	2	3	4	5	6	7	8	Total	Mean	Total	Mean
Control	100	100										
20% Effluent	100	100										
40% Effluent	100	100										
60% Effluent	100	100										
80% Effluent	100	100										
100% Effluent	100	100										
LC ₅₀ / IC ₂₅ Value: <u>> 100%</u> 95% Confidence Limits UL: <u>na</u> LL: <u>na</u> UL = Upper Limit LL = Lower Limit								Calculated TU Estimate * <u>< 1.00 Tu_a</u> (indicate Acute/Chronic) Permit Limits: <u>1.00 Tu_a</u> (Indicate TU _a / TU _c)				
								If acute test, method used to determine LC50 and Confidence Limit Valued:				

Note: TU_a = 100/LC₅₀; TU_c = 100/IC₂₅

Reference Toxicant Test Results					
Species	Date	Time	Duration	Toxicant	Results (LC ₅₀ / IC ₂₅)
<i>Pimephales</i>	05/16/08	5:00 P.M.	<u>48 hrs.</u>	<u>NaCl</u>	LC50=7.0095g/l
<i>promelas</i>					

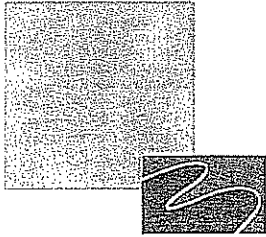
Larval Fish Growth and Survival Test-48 Hr Survival

Start Date: 6/7/2008 Test ID: westbfh68 Sample ID: westbfh68
 End Date: 6/9/2008 Lab ID: 0044:beckmar environmental Sample Type: EFF1-POTW
 Sample Date: 6/6/2008 Protocol: EPAF 94-EPA Freshwater Test Species: PP-Pimephales promelas
 Comments: west go pm fhm acute june 2008

Conc-%	Mean	N-Mean
B-Control	1.0000	1.0000
20	1.0000	1.0000
40	1.0000	1.0000
60	1.0000	1.0000
80	1.0000	1.0000
100	1.0000	1.0000

Conc-%	Transform: Arcsin Square Root						
	Mean	N-Mean	Mean	Min	Max	CV%	N
B-Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2
20	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2
40	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2
60	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2
80	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2
100	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Normality of the data set cannot be confirmed				
Equality of variance cannot be confirmed				



Grab # B

Toxicity Test Results

Results of *Pimephales promelas* 48 HR. ACUTE Toxicity Test
 (Genus) (Species) (Type / Duration)

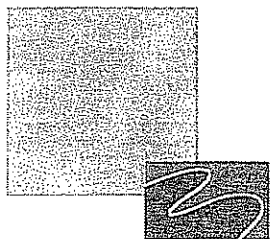
Conducted: 06/07/08 -- 06/09/08 Using Effluent from Outfall # 1
 (mm/dd/yy) (mm/dd/yy)

Test Solution	Percent Survival (time intervals used:- DAY)								# of Young		Dry Weight	
	1	2	3	4	5	6	7	8	Total	Mean	Total	Mean
Control	100	100										
20% Effluent	100	100										
40% Effluent	100	100										
60% Effluent	100	100										
80% Effluent	100	100										
100% Effluent	100	100										
LC ₅₀ / IC ₂₅ Value: <u>> 100%</u> 95% Confidence Limits UL: <u>na</u> LL: <u>na</u> UL = Upper Limit LL = Lower Limit								Calculated TU Estimate * <u>< 1.00 Tua</u> (indicate Acute/Chronic) Permit Limits: <u>1.00 Tua</u> (Indicate TU _a / TU _c)				
								If acute test, method used to determine LC50 and Confidence Limit Valued:				

Note: TU_a = 100/LC₅₀; TU_c = 100/IC₂₅

Reference Toxicant Test Results

Species	Date	Time	Duration	Toxicant	Results (LC ₅₀ / IC ₂₅)
<i>Pimephales promelas</i>	05/16/08	5:00 P.M.	<u>48 hrs.</u>	<u>NaCl</u>	LC50=7.0095g/l



Appendix III

Chain of Custody Data Sheets

