



MSD

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

July 25, 2007

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

RE: Floyds Fork Wastewater Treatment Plant, KPDES No: KY0102784
Discharge Monitoring Report for June 2007.

Dear Ms. Thurman:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Floyds Fork Wastewater Treatment Plant, for the month of May 2007.

Also included is the quarterly Biomonitoring / metals results.

If you have any questions concerning the attached DMR's, please contact me at (502)241-9093.

Sincerely,

John Kessel
Process Supervisor, East Region

JMK/ Floyds Fork 0607

Enclosures

cc: M. Mudd (DOW Louisville)
E. Brady
T. Singleton
P. Burgin
R. Shaw



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

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

AME 10-10-97 08PM JTF

ADDRESS C O R ALEVILLE/JEFF CO,MONT

DOI: 10.1002/for

MEMPHIS KY 40311-2497

ACILITY 1150 11 3175 1150 1150

LOCATION: 011 8771 1700 NY 40245

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

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

NY 016754

PERMIT NUMBER

[illegible]

DISCHARGE NUMBER

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	87	08	01		87	08	01

MAJOR

(5) BUREAU COPY

516 JOURNAL OF POST KEYNESIAN ECONOMICS

MUNICIPAL DISCHARGE

$$\frac{d\alpha}{dt} = \frac{1}{\alpha} \left(\frac{d\alpha}{dt} \right)_{\text{total}} = \frac{1}{\alpha} \left(\frac{d\alpha}{dt} \right)_{\text{in}} + \frac{1}{\alpha} \left(\frac{d\alpha}{dt} \right)_{\text{out}}$$

*** NO DISCHARGE ***

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
INFLUENT BOD5 VALUE	SAMPLE MEASUREMENT				7.3			()	0	3/7	Grab
	PERMIT REQUIREMENT				INST MIN			MG/L		WEEK	
INFLUENT TSS VALUE	SAMPLE MEASUREMENT				8.0		8.6	()	0	3/7	Grab
	PERMIT REQUIREMENT				MINIMUM		MAXIMUM	GU		WEEK	
INFLUENT TOTAL SUSPENDED SOLIDS	SAMPLE MEASUREMENT	8116	2350	(26)		202	248	(17)	0	3/7	Comp
	PERMIT REQUIREMENT	REPORT MD AVG	REPORT MX WK AV	LBS/DY		REPORT MD AVG	REPORT MX WK AV	MG/L		WEEK	
INFLUENT CROSS-VALUE	SAMPLE MEASUREMENT	18	28	(26)		1.8	3	(17)	0	3/7	Comp
	PERMIT REQUIREMENT	BIG MD AVG	1220 MX WK AV	LBS/DY		GO MD AVG	45 MX WK AV	MG/L		WEEK	
NITROGEN AMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	181	223	(26)		17.0	20.8	(17)	0	3/7	Comp
	PERMIT REQUIREMENT	REPORT MD AVG	REPORT MX WK AV	LBS/DY		REPORT MD AVG	REPORT MX WK AV	MG/L		WEEK	
NITROGEN AMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	1.4	2.3	(26)		0.12	0.18	(17)	0	3/7	Comp
	PERMIT REQUIREMENT	MD AVG	51 MX WK AV	LBS/DY		MD AVG	3 MX WK AV	MG/L		WEEK	
PHOSPHORUS TOTAL	SAMPLE MEASUREMENT					0.098	0.13	(17)	0	3/7	Comp
	PERMIT REQUIREMENT					MD AVG	1.5 MX WK AV	MG/L		WEEK	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

H.J. Schurdein
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.

TELEPHONE

502 241-9093

DATE

07 07 25

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

AREA CODE NUMBER YEAR MO DAY

502 241-9093 07 07 25

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

NAME US FLOYS FORK LTP
 ADDRESS 000 LOUISVILLE/JEFF CO MSD
 000 ALCONQUIN PKWY
 LOUISVILLE KY 40211-2497
 FACILITY FOR FLOYS FORK LTP
 LOCATION LOUISVILLE KY 40245
 ATTN: ALEX E NOVAL, OPER MGR

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

KYC1027B4	001
PERMIT NUMBER	DISCHARGE NUMBER

MAJOR
 (SUDR LV)
 F - FINAL
 MUNICIPAL DISCHARGE
 EFFLUENT
 *** NO DISCHARGE () ***

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
07	04	01		07	05	30

FROM

TO

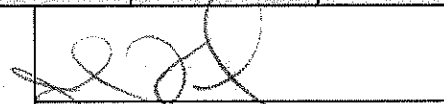
NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
LOW IV CONDUCT OR (HRU TREATMENT PLANT) 00000 0 0	SAMPLE MEASUREMENT	1.43	1.75	(03)	*****	*****	*****		0	C/N	C/N
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT NO AVG	REPORT DAILY MX	MGD	*****	*****	*****	***		MONTHLY	
FOR TREATMENT PLANT GENERAL 00005 0 0 0	SAMPLE MEASUREMENT	*****	*****		*****	7	14	(13)	0	3/7	Grab
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	200	400	7 DA GED 100ML		WEEK	
BOD, CARBONACEOUS (5 DAY) BOD 00062 0 0 0	SAMPLE MEASUREMENT	1047	1107	(26)	*****	100	111	(17)	0	3/7	Comp
RAW SEW/INFLUENT	PERMIT REQUIREMENT	REPORT NO AVG	REPORT MX WK AV	LBS/DY	*****	REPORT NO AVG	REPORT MX WK AV	MG/L		WEEK	
BOD, CARBONACEOUS (5 DAY) BOD 00062 0 0 0	SAMPLE MEASUREMENT	21	24	(20)	*****	2.0	2.0	(17)	0	3/7	Comp
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	271	407		*****	10	15	MG/L		WEEK	
BOD, CARBONACEOUS (5 DAY) BOD 00062 0 0 0	SAMPLE MEASUREMENT	*****	*****		97.9%	*****	*****	(23)	0	1/30	Cal
PERCENT REMOVAL	PERMIT REQUIREMENT	*****	*****	***	NO MIN	*****	*****	PERCENT		MONTH	
SOLIDS SUSPENDED (100) 0 0 0	SAMPLE MEASUREMENT	*****	*****		99.1%	*****	*****	(23)	0	1/30	Cal
PERCENT REMOVAL	PERMIT REQUIREMENT	*****	*****	***	NO MIN	*****	*****	PERCENT		MONTH	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

H.J. Schardew
 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.


 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

502 241 9093
 AREA CODE NUMBER

DATE

07 07 25
 YEAR MO DAY

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

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

NAME 115-1107/08-0001 STE

ADDRESS 670 LOUISVILLE/JEFF CO MND

400 E ALDERMAN PARK

LOUISVILLE

FACILITY 115-1107/08-0001 STE

LOCATION LOUISVILLE

115-1107/08-0001 STE

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

XX0102784

PERMIT NUMBER

001 Y

DISCHARGE NUMBER

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	07	04	01		07	05	05

MAJOR

(EVSER LV)

F - FINAL

QUARTERLY METALS/BIO-MONITORING

EFFLUENT

*** NO DISCHARGE ***

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
ARSENIC, TOTAL	SAMPLE MEASUREMENT	*****	*****		*****	221	221	MG/L	0	1/91	Comp
ARSENIC, TOTAL	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT NO AVG	REPORT DAILY MX	MG/L		1/91	Comp
CHLORIDE	SAMPLE MEASUREMENT	*****	*****		*****	0.0307	0.0307	MG/L	0	1/91	Comp
CHLORIDE	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT NO AVG	REPORT DAILY MX	MG/L		1/91	Comp
COBALT	SAMPLE MEASUREMENT	*****	*****		*****	<0.001	<0.001	MG/L	0	1/91	Comp
COBALT	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT NO AVG	REPORT DAILY MX	MG/L		1/91	Comp
COPPER	SAMPLE MEASUREMENT	*****	*****		*****	<0.005	<0.005	MG/L	0	1/91	Comp
COPPER	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT NO AVG	REPORT DAILY MX	MG/L		1/91	Comp
COPPER	SAMPLE MEASUREMENT	*****	*****		*****	<0.002	<0.002	MG/L	0	1/91	Comp
COPPER	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT NO AVG	REPORT DAILY MX	MG/L		1/91	Comp
TOXICITY, FINAL	SAMPLE MEASUREMENT	*****	*****		*****		<1.0	CHRONIC TOXCTY	0	1/91	Comp
TOXICITY, FINAL	PERMIT REQUIREMENT	*****	*****	*****	*****		1.0	CHRONIC TOXCTY		1/91	Comp
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

H.J. Schurlein

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.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

502

AREA CODE

NUMBER

YEAR

MO

DAY

DATE

07

07

25

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

NAME OF TREATMENT PLANT FLOYDS FORK COUNTY JEFFERSON MONTH OF: June 2007
 KPDES PERMIT NUMBER KY0102784 PLANT CAPACITY 3.5 MGD RECEIVING STREAM FLOYDS FORK

NAME OF TREATMENT PLANT		FACILITY NAME		PLANT CAPACITY		3.5 MGD		RECEIVING STREAM		FLOYDS FORK																								
KPDES PERMIT NUMBER				KY0102784				ACTIVATED SLUDGE				AERATION BASIN				SLUDGE HANDLING				FINAL														
DATE	TOTAL FLOW (MILLION GALLONS)	RAW SEWAGE		pH		SETTLEABLE SOLIDS (mg/L)		DISSOLVED OXYGEN (mg/L)		SUSPENDED SOLIDS (mg/L)		5 DAY CBOD (mg/L)		RETURN		WASTED	AERATION BASIN		SETTLED SLUDGE VOLUME		RAW		HAULED		PHOSPHORUS, TOTAL (mg/L)	NH3-N (mg/L)	FECAL COLIFORM (COLONIES/100ML)							
		GRIT REMOVED (CUBIC FEET)	SCREENINGS (CUBIC FEET)	RAW	FINAL	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	STREAM ABOVE	FINAL EFFLUENT	STREAM BELOW	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	RAW		PRIMARY EFFLUENT	FINAL EFFLUENT	GAL/DAY X 1000	MLSS (mg/L) X 1000	MLVSS (mg/L) X 1000	30 MIN.	60 MIN.	GALLONS X 1000				% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS	WITHDRAWN GALLONS X 1000		
1	2.109			7.3										1.706	5.74	6100	4.2	3800	2570	400														
2	1.396													1.451																0.15	0.10	3		
3	1.127										176		1	108		2	1.039													25.2	0.06	0.10	7	
4	1.294			7.3	8.2						235		1	129		2	1.53	6.34	62000	2.2	4090	2910	450							18.5	0.16	0.10	3	
5	1.476			7.2	8.2						109		1	65		2	1.428	6.25	44000	2.6	3700	2540	400							25				
6	1.296			7.1	8.0						7.5						1.752	7.73	36000	2.7	3450	2430	400							63				
7	1.300			7.3													1.748	3.95	46000	4.4	3470	2470	380				1.61			46				
8	1.290			7.3													1.832			4.2	3480	2370	380							6.3				
9	1.295																1.734														18.9	0.04	0.10	33
10	1.298										231		1	102		2	1.638													63	0.08	0.10	3	
11	1.101			7.5	8.5						320		2	138		2	1.659	5.77	61000	3.1	4310	2790	360							81.9	0.08	0.10	10	
12	1.064			7.4	8.5						193		2	93		2	2.734	6.54	33000	3.7	3040	2030	380							56.7				
13	1.000			7.4	8.6						7.8						1.601	5.79	58000	4.2	4250	2840	350							63				
14	1.038			7.5													1.686	6.29		4.2	3920	2520	350							37.8				
15	1.133			7.4													1.854	5.85	40000	4.1	4470	2730	320							6.3				
16	1.104																1.573															0.12	0.10	13
17	1.284										209		3	112		2	1.876													138	0.04	0.10	3	
18	1.083			7.5	8.6						7.6		3	114		2	1.588	9.78	63000	2.4	4830	2940	360							88.2	0.04	0.10	67	
19	1.368			7.5	8.6						7.3		2	86		2	1.631	6.36	40000	2.6	5250	3210	360							63				
20	1.407			7.6	8.5						7.5						1.775	7.68	40000	3.1	5030	3060	330				1.11			50.4				
21	1.192			7.3													1.746	9.68	50000	2.4	5000	3080	330							50.4				
22	1.601			7.5													1.772	8.24	40000	2.6	5030	2990	360											
23	1.105																1.838															0.05	0.10	10
24	1.709										169		2	72		2	1.705													31.5	0.15	0.10	3	
25	1.365			7.8	8.3						7.5		2	108		2	1.734	7.77	45000	3.8	4960	3120	350							81.9	0.20	0.34	3	
26	1.226			7.7	8.4						8.0		1	68		2	1.761	8.21	40000	2.8	4620	2880	340							88.2				
27	1.719			7.4	8.6						8.2						1.778	7.32	40000	2.6	4470	2800	340							63				
28	2.556			7.8													1.63	10.2	40000	4.2	4890	3050	360				1.36			44.1				
29	2.193			7.8													2.062	9.63	40000	3.9	5030	3150	340											
30	1.456																1.724																	
31																															1236			
Tot.	41.57																51.59																	
Avg.	1.386			7.5	8.4						7.7		2	100		2	1.72	7.256	43374	3.333	4338	2785	363.8					1.343	51.48	0.10	0.12		7	

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

13195
FLOW

6769
CBOD

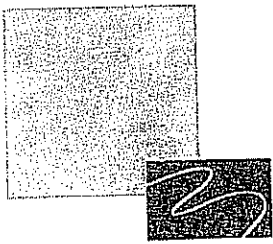
11097
TSS

OPERATOR

CERT. NO.

TOTAL NUMBER OF SEWER CONNECTIONS
SEWER CONNECTIONS 0 X 4 = 0 SEWERED POPULATION

PLANT TELEPHONE



**Chronic Toxicity Evaluation
for the
MSD-Floyd's Fork
Wastewater Treatment Plant**

June 2007

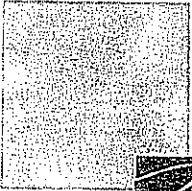
Prepared by:

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

Submitted to:

Mr. John Kessle
Floyd's Fork Wastewater Treatment Plant
700 West Liberty St.
Louisville, KY 40203

Released by: Amanda L. Spalberg
Biomonitoring QA Officer 7-23-07



Summary

Chronic, definitive, toxicity testing was performed on final effluent samples collected June 18 through 23, 2007 from the MSD-Floyd's Fork Wastewater Treatment Plant. Testing was performed June 20 through 27, 2007 and upon termination, the following conclusions were reached:

For the 7 day *Pimephales promelas* survival and growth test, the IC₂₅ for reproduction was greater than 100%, yielding less than 1.0 chronic toxicity units (TUC=100/IC₂₅).

Introduction

At the request of Mr. John Kessle, chronic definitive toxicity testing was performed on 24 hour composite effluent samples collected June 18 through 23, 2007 from the MSD-Floyd's Fork Wastewater Treatment Plant in Louisville, KY. Metals analyses were also performed on effluent samples collected during the same period. Information concerning plant and laboratory conditions can be found on the following pages.

The chronic toxicity testing was performed in accordance with the US EPA methodology as defined in the US EPA manual "Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" fourth edition, 2002 (EPA-821-R-02-013). The actual methods used were "Fathead Minnow, *Pimephales promelas*, Larval Survival and Growth Test Method 1000.0". The chronic toxicity test was performed in order to ascertain the IC₂₅ values for *Pimephales promelas* growth.



Date of Issue: June 28, 2007

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

RE: Analysis results for: Floyds Fork WWTP: Biomonitoring metals/hardness.

BECKMAR CERTIFICATE OF ANALYSIS # 185902

Sample Date: 6/19/2007

Sample Time: 7:30

Sampled by: M. Carter

Parameter	Results	Units	Type	Method	Analyzed Date / Time	Analyst
Hardness (T)	221	mg/l	C	EPA 130.2	6/25/2007 16:15	PJB
Cadmium (TR)	< 0.001	mg/l	C	EPA 200.7	6/21/2007 14:00	ALS
Cadmium (D)	< 0.001	mg/l	C	EPA 200.7	6/21/2007 14:00	ALS
Copper (TR)	< 0.002	mg/l	C	EPA 200.7	6/21/2007 14:00	ALS
Copper (D)	< 0.002	mg/l	C	EPA 200.7	6/21/2007 14:00	ALS
Lead (TR)	< 0.005	mg/l	C	EPA 200.7	6/21/2007 14:00	ALS
Lead (D)	< 0.005	mg/l	C	EPA 200.7	6/21/2007 14:00	ALS
Zinc (TR)	0.0307	mg/l	C	EPA 200.7	6/21/2007 14:00	ALS
Zinc (D)	0.0272	mg/l	C	EPA 200.7	6/21/2007 14:00	ALS

Remarks:

If you have any questions please call.

Thank you,

Joe P. Carney
Quality Control Officer

JPC:dwt

ENVIRONMENTAL
LABORATORY

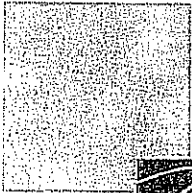
Jeffersonstown Business Park

3251 Rockledge Parkway

Jeffersonstown, KY 40299

502-266-6533

FAX 502-266-6446



Test Type: Acute Screen
Chronic X Definitive X

TOXICITY TEST REPORT SHEET

- 1) Facility/Discharger: Floyd's Fork WWTP
Report Date: 7/17/2007
- 2) Address: 1100 Miles Park Way, Louisville, KY 40245
- 3) NPDES Permit #: KY0102784 4) Receiving Stream: Floyd's Fork mile pt 37
- 5) Facility Contact: Mr. John Kessle 6) Phone #: (502) 253-9310
- 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) 1.08 2) 1.4
3) 1.6 4) 5) 6) 7)
- 11) Test Species: 1) Pimephales promelas 2)
- 12) Species Age: 1) less than 24 hours 2)
- 13) Organism Source: 1) fish hatch 062007 2)
- 14) Acclimation Procedures: 1) Reared at test conditions in synthetic water
2)
- 15) Test Conditions: Static: Static-Renewal: X
- 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 ml

Rhonda Baker

(Signature of person filling out form)

7/17/2007

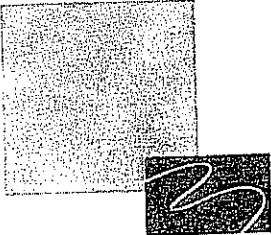
Date

Rhonda Baker

Name (Typed or Printed)

Biologist

Title



Materials and Methods

Sampling

Composite effluent samples were collected once every other 24 hours (Table I) and delivered to Beckmar Environmental Laboratory. Upon receipt, each 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

P. promelas tests were performed in 600 mL plastic cups obtained from Liquor Outlet (Louisville, KY).

Toxicity Testing

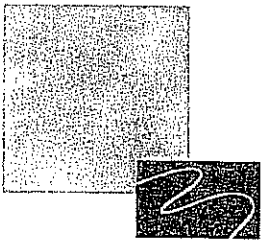
Samples were allowed to warm to room temperature (25°C) and were tested for residual chlorine immediately prior to dilution. Testing was then performed in accordance with US EPA methodology. Data was recorded on Beckmar generated lab sheets (Appendix I).

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 24 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% effluent samples. 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:	YSI Model 52
PH:	Thermo-Orion 720
Conductivity:	Cole-Palmer Conductivity Meter 1481-60
Alkalinity:	Standard Methods Titration
Hardness:	Standard Methods Titration
Total Chlorine Residual:	Fisher-Porter Titration
EPA Acute/Chronic Manual:	4 th Chronic 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 24 hours composite is completed. The sampler is cooled and 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	Composite	2 gallons	06/18/07 @ 7:30 a.m.	= 06/19/07 @ 7:30 a.m.	0"	4.0 degrees C
	Composite	2 gallons	06/20/07 @ 7:30 a.m.	= 06/21/07 @ 7:45 a.m.	1.0"	4.0 degrees C
	Composite	3 gallons	06/22/07 @ 8:15 a.m.	= 06/23/07 @ 8:15 a.m.	0	4.0 degrees C

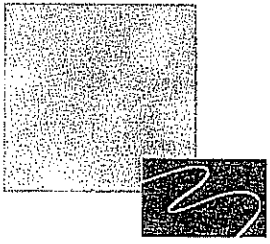
Dates/Times of Test Performance

Species #1: *Pimephales promelas*

Initiated: 06/20/07 @ 5:00 P.M.

Renewed Daily @ 5:00 P.M.

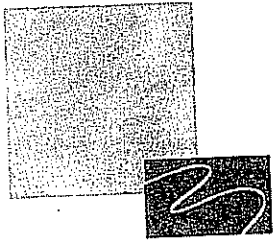
Terminated 06/27/07 @ 5:00 P.M.



Results

Pimephales promelas exhibited 95% survival in the control, 85% survival in the 20% dilution, 82.5% survival in the 40% dilution, 90% survival in the 60% dilution, 87.5% survival in the 80% dilution, and 95% survival in the 100% dilution.

For the 7-day *Pimephales promelas* survival and growth test, the IC₂₅ for growth was greater than 100%, generating a chronic toxicity value of less than 1.0 TUC.



Appendix I

Pimephales promelas
Data Sheets

Larval Fish Growth and Survival Test-7 Day Growth

Start Date: 6/20/2007 Test ID: ff0607 Sample ID: ff0607
 End Date: 6/27/2007 Lab ID: 0044:beckmar environmental Sample Type: EFF1-POTW
 Sample Date: 6/19/2007 Protocol: EPAF 94-EPA Freshwater Test Species: PP-Pimephales promelas
 Comments: 10 by 15 fork thm chronic june 2007

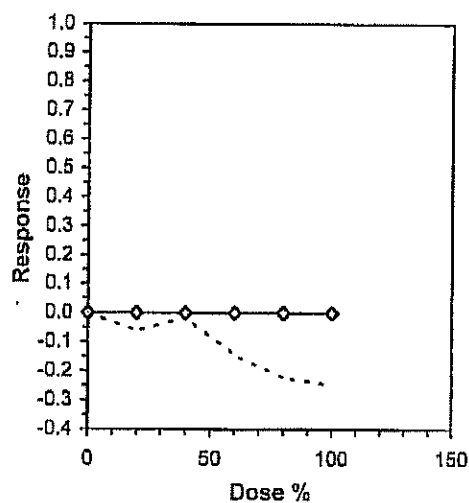
Conc-%	1	2	3	4
B-Control	0.2900	0.3900	0.4000	
20	0.3800	0.4200	0.4100	0.3300
40	0.3300	0.3700	0.3600	0.4100
60	0.3900	0.4100	0.4000	0.4600
80	0.4300	0.5000	0.4000	0.4400
100	0.3600	0.5800	0.4700	0.4000

Conc-%	Mean	N-Mean	Transform: Untransformed					Isotonic	
			Mean	Min	Max	CV%	N	Mean	N-Mean
B-Control	0.3625	1.0000	0.3625	0.2900	0.4000	13.770	4	0.4042	1.0000
20	0.3850	1.0621	0.3850	0.3300	0.4200	10.497	4	0.4042	1.0000
40	0.3675	1.0138	0.3675	0.3300	0.4100	8.991	4	0.4042	1.0000
60	0.4150	1.1448	0.4150	0.3900	0.4600	7.492	4	0.4042	1.0000
80	0.4425	1.2207	0.4425	0.4000	0.5000	9.476	4	0.4042	1.0000
100	0.4525	1.2483	0.4525	0.3600	0.5800	21.302	4	0.4042	1.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution ($p > 0.01$)	0.97354	0.884	0.41557	1.15117
Bartlett's Test indicates equal variances ($p = 0.36$)	5.52301	15.0863		

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



Grab # _____

Toxicity Test Results

Results of *Pimephales* *promelas* 7 day chronic definitive
 (Genus) (Species) (Type / Duration)

Toxicity Test

Conducted: 06/20/07 -- 06/27/07
 (mm/dd/yy) (mm/dd/yy)

Using Effluent from Outfall # 1

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	100	100	100	97.5	95				14.5	0.36
20% Effluent	100	100	100	100	97.5	95	85				15.4	0.39
40% Effluent	100	100	100	100	95	92.5	82.5				14.7	0.37
60% Effluent	100	100	100	97.5	95	92.5	90				16.6	0.42
80% Effluent	100	100	100	100	97.5	95	87.5				17.7	0.44
100% Effluent	100	100	100	100	97.5	97.5	95				18.1	0.45
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>less than 1.0 TU_c</u> (indicate Acute / Chronic) Permit Limits: <u>1.0 TU_c</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>	06/12/07	12:00 P.M.	<u>7 days</u>	<u>NaCl</u>	<u>IC25=3.0225g/l</u>
<i>promelas</i>					

Weight Data for FATHEAD MINNOW LARVAL
survival and growth test

Client: FLOYD'S FORK
Location: _____

Analyst: B. Barker
Test Date(s): 6-20/27-07 5P
Weight Date: 6-28-07

Drying Temperature (Deg C.): 60°
Drying Time: 24 hr

	Replicate Number	A Weight of Boat grams	B Dry Wgt foil & Larvae grams	B-A Total Dry Wgt of Larvae grams	C Number of Larvae	(B-A)/C Mean Dry Wgt of Larvae grams	Remarks
Control	1 5°	1.3321	1.3358	3.7	10	.37	
	2 4	1.5343	1.5372	2.9		.29	
	3 0	1.3522	1.3561	3.9		.39	
	4 3	1.5384	1.5424	4 14.5		.4	
Conc: 20%	1 6	1.5906	1.5944	3.8		.38	.36
	2 46	1.5604	1.5646	4.2		.42	
	3 81	1.6114	1.6155	4.1		.41	
	4 48	1.6036	1.6069	3.3 15.4		.33	.39
Conc: 40%	1 35	1.3404	1.3434	3.3		.33	
	2 28	1.5962	1.5999	3.7		.37	
	3 35°	1.6054	1.6090	3.6		.36	
	4 25°	1.5636	1.5694	4.1 14.7		.41	.37
Conc: 60%	1 19	1.3104	1.3143	3.9		.39	
	2 63	1.5772	1.5813	4.1		.41	
	3 37	1.2999	1.3039	4		.4	
	4 24°	1.3126	1.3172	4.6 16.6		.46	.42
Conc: 80%	1 31	1.5859	1.5902	4.3		.43	
	2 36	1.3196	1.3246	5		.5	
	3 27	1.5642	1.5682	4		.4	
	4 21	1.30087	1.3051	4.4 12.7		.44	.44
Conc: 100%	1 F	1.3151	1.3187	3.6		.36	
	2 31°	1.5895	1.5953	5.8		.58	
	3 2	1.3468	1.3515	4.7		.47	
	4 1	1.6188	1.6228	4 18.1	10	.4	.46

C- 38 1.6080 1.6080

Survival data for FATHEAD MINNOW LARVAL
Survival and Growth Test

BECKMAR
Jeffersontown Business Park
3251 Ruckriegel Parkway
Louisville, Ky 40299
Phone: (502) 266-6533

Number of Survivors

Discharge : FLOYD'S FORK Test Date(s) : 6-20/27-07 SP

Location : _____ Analyst : B. Backer

SURVIVAL AT END OF THE DAY

	Replicate Number:	1	2	3	4	5	6	7	% SURV	Remarks
Control	1	10	10	10	10	10	9	9		
	2				10	10	10	9		
	3				10	10	10	10		
	4				10 100	10 100	10 97.5	10	95%	
Conc : 20%	1				10	10	10	9		
	2				10	9	9	8		
	3				10	9	9	8		
	4				10 100	10 97.5	10 95	9	85%	
Conc : 40%	1				10	10	9	8		
	2				10	10	10	9		
	3				10	8	8	7		
	4				10 100	10 95	10 92.5	9	82.5%	
Conc : 60%	1				10	10	10	10		
	2				10	10	10	9		
	3				10	10	10	9		
	4				10	10	10	9		
Conc : 80%	1				10	10	10	10		
	2				10	10	10	9		
	3				10	10	10	9		
	4				10 100	10 97.5	9 95	8	87.5%	
Conc : 100%	1				10	9	9	8		
	2				10	10	10	10		
	3				10	10	10	10		
	4				10 100	10 97.5	10 97.5	10	95%	

Data form for the Fathead Minnow survival and growth test.
Routine chemical and physical determinations.

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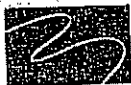
Client: FLOYD'S FORK
Test Start: 6-20-07 5P
Test Stop: 6-27-07 5P

Analyst: C.B. Barker
Analyst: _____
Analyst: _____

Control:		Day							Remarks
		1	2	3	4	5	6	7	
Temp. Degree C.	Initial	24.0	24.0	24.1	24.0	24.0	24.0	24.0	
	Final	24.0	24.1	24.1	24.0	24.0	24.0	24.2	
D. O. mg/l	Initial	8.1	8.1	8.0	8.0	7.9	7.8	7.9	
	Final	5.0	5.9	6.2	5.5	5.8	5.0	5.1	
pH S.U.	Initial	7.76	7.81	7.83	7.80	7.83	7.86	7.87	
	Final	7.15	7.27	7.29	7.40	7.31	7.21	7.27	
Alkalinity (mg/l)		86	90	91.6	96	98.6	100	93.6	
Hardness (mg/l)		90.7	87.0	108.0	106.5	112.6	94.1	107.3	
Conductivity (µmhos)		323	330	331	340	335	321	320	
Chlorine (mg/l)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Analyst (init.)		AB	AB	AB	AB	AB	AB/AB	AB/AB	

Conc. <u>20%</u>		Day							Remarks
		1	2	3	4	5	6	7	
Temp. Degree C.	Initial	24.0	24.0	24.1	24.0	24.0	24.0	24.0	
	Final	24.0	24.1	24.1	24.0	24.0	24.0	24.2	
D. O. mg/l	Initial	8.3	8.4	8.2	8.2	8.1	8.2	8.2	
	Final	5.3	6.0	6.2	6.1	6.0	5.1	5.5	
pH S.U.	Initial	7.80	7.84	7.85	7.82	7.80	7.79	7.81	
	Final	7.37	7.90	7.35	7.50	7.69	7.41	7.32	
Analyst (init.)		AB	AB	AB	AB	AB	AB	AB/AB	

Conc. <u>40%</u>		Day							Remarks
		1	2	3	4	5	6	7	
Temp. Degree C.	Initial	24.0	24.0	24.1	24.0	24.0	24.0	24.0	
	Final	24.0	24.1	24.1	24.0	24.0	24.0	24.2	
D. O. mg/l	Initial	8.6	8.7	8.3	8.4	8.3	8.7	8.5	
	Final	5.3	6.1	6.1	6.0	6.1	5.3	5.4	
pH S.U.	Initial	7.87	7.88	7.87	7.88	7.77	7.69	7.78	
	Final	7.49	7.95	7.49	7.53	7.83	7.50	7.40	
Analyst (init.)		AB	AB	AB	AB	AB	AB/AB	AB/AB	



Data form for the Fathead Minnow survival and growth test.
Routine chemical and physical determinations.

Page 2 of 2

Client: FLOYD'S FORK
Test Start: 6-20-07 SP
Test Stop: 6-27-07 SP

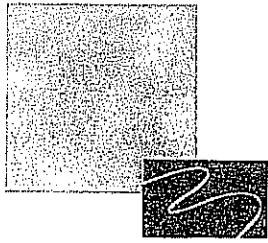
Analyst: B. Barker
Analyst: _____
Analyst: _____

Conc. <u>60%</u>	Day							Remarks
	1	2	3	4	5	6	7	
Temp. Initial	24.0	24.0	24.1	24.0	24.0	24.0	24.0	
Degree C. Final	24.0	24.1	24.1	24.0	24.0	24.0	24.2	
D. O. Initial	8.9	9.0	8.4	8.5	8.7	8.8	8.7	
mg/l Final	5.3	6.0	6.1	6.2	6.0	5.3	5.5	
pH Initial	7.91	7.93	7.89	7.90	7.69	7.64	7.70	
S.U. Final	7.73	8.02	7.61	7.69	7.90	7.65	7.49	
Analyst (init.)	MB	MB	MB	MB	MB	MB	MB	

Conc. <u>80%</u>	Day							Remarks
	1	2	3	4	5	6	7	
Temp. Initial	24.0	24.0	24.1	24.0	24.0	24.0	24.0	
Degree C. Final	24.0	24.1	24.0	24.0	24.0	24.0	24.2	
D. O. Initial	9.1	9.6	8.5	8.7	8.9	9.0	9.1	
mg/l Final	5.4	6.0	6.2	6.2	6.1	5.4	5.6	
pH Initial	8.00	7.99	7.91	7.93	7.65	7.62	7.67	
S.U. Final	7.88	8.00	7.77	7.79	7.44	7.83	7.57	
Analyst (Init.)	MB	MB	MB	MB	MB	MB	MB	

Conc. <u>100%</u>	Day							Remarks
	1	2	3	4	5	6	7	
Temp. Initial	24.0	24.0	24.1	24.0	24.0	24.0	24.0	
Degree C. Final	24.0	24.1	24.0	24.0	24.0	24.0	24.2	
D. O. Initial	9.4	10.1	8.6	8.8	9.2	9.4	9.5	
mg/l Final	5.6	6.0	6.2	6.3	6.0	5.4	5.8	
pH Initial	8.06	8.13	7.93	7.96	7.60	7.57	7.63	
S.U. Final	7.96	8.07	7.90	7.84	7.94	7.91	7.65	
Alkalinity (mg/l)	176.4	200.4	213.2	221.6	182.8	172.8	193.6	
Hardness (mg/l)	151.2	115.1	195.1	214.2	252.5	279.8	276.1	
Conductivity (μ mhos)	893	880	788	790	918	914	795	
Chlorine (mg/l)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Analyst (Init.)	MB	MB	MB	MB	MB	MB	MB	

Recovery Sample # 185901 185901 186130 186130 186185 186185 186185



Appendix II

Chain of Custody Data Sheets

185807
185902

(FHM/CHASW)

FLOYDS FORK

TYPE OF SAMPLE: INFLUENT (COMPOSITE)
SAMPLE DATE: 6-18-07
EXPLAIN LOCATION: PHILIPPE INFLUENT
NAME TIME VOL: mls 1000
NAME TIME VOL: mls
NAME TIME VOL: mls
NAME TIME VOL: mls
DELIVERED TO: EF LAB
DATE: TIME:

TYPE OF SAMPLE: EFFLUENT (COMPOSITE)
SAMPLE DATE: 6-18-07
EXPLAIN LOCATION: U-V SYSTEM DISCHARGE
NAME TIME VOL: mls
NAME TIME VOL: mls 8000
NAME TIME VOL: mls
NAME TIME VOL: mls
DELIVERED TO: EF LAB
DATE: 6-19-07 TIME: 0730

TYPE OF SAMPLE: EFF. NH₃N (COMPOSITE)
SAMPLE DATE:
EXPLAIN LOCATION:
NAME TIME VOL: mls
NAME TIME VOL: mls
NAME TIME VOL: mls
NAME TIME VOL: mls
DELIVERED TO:
DATE: TIME:

TYPE OF SAMPLE: OTHER MIXED HAZARDOUS
SAMPLE DATE:
EXPLAIN LOCATION: INNER Ring WEIR
NAME TIME VOL: mls
NAME TIME VOL: mls
NAME TIME VOL: mls
NAME TIME VOL: mls
DELIVERED TO: EF LAB
DATE: TIME:

THE EFFLUENT GRAB CLOVO mls
CV 7-DAYS DURING Bio-
Testing Event ☐
☐

TYPE OF SAMPLE: FECAL COLIFORM (GRAB)
SAMPLE DATE:
EXPLAIN LOCATION:
NAME TIME VOL: mls
DELIVERED TO:
DATE: TIME:

R F
18 0 1.08
20 1" 1.40
22 0 1.60

I have accepted Paul Bach DATE 6-19-07 TIME 9:32
NAME and delivered to: DATE 6-19-07 TIME 10:00
I have accepted the above sample: DATE TIME
NAME and delivered to: DATE TIME
I have accepted the above sample: DATE TIME
NAME and delivered to: DATE TIME

abc
@ Pol

186130

FLOYDS Fork

TYPE OF SAMPLE: INFLUENT (COMPOSITE)	TYPE OF SAMPLE: EFFLUENT (COMPOSITE) ☒
SAMPLE DATE: <u>6-20-70</u>	SAMPLE DATE: <u>6-20-70</u>
EXPLAIN LOCATION: <u>PHILIPPS INFLUENT</u>	EXPLAIN LOCATION: <u>U-V SYSTEM DISCHARGE</u>
NAME <u>LAKE</u> TIME <u>7:30 AM</u> VOL: ml <u>1000</u>	NAME <u>KUSDES</u> TIME <u>7:30 AM</u> VOL: ml <u>8000</u>
NAME <u>LAKE</u> TIME <u>7:30 AM</u> VOL: ml <u>1000</u>	NAME <u>LAKE</u> TIME <u>7:30 AM</u> VOL: ml <u>8000</u>
NAME <u>LAKE</u> TIME <u>7:30 AM</u> VOL: ml <u>1000</u>	NAME <u>LAKE</u> TIME <u>7:30 AM</u> VOL: ml <u>8000</u>
NAME <u>LAKE</u> TIME <u>7:30 AM</u> VOL: ml <u>1000</u>	NAME <u>LAKE</u> TIME <u>7:30 AM</u> VOL: ml <u>8000</u>
DELIVERED TO: <u>EF LAB</u>	DELIVERED TO: <u>EF LAB</u>
DATE: <u>6-20-70</u> TIME: <u>7:45 AM</u>	DATE: <u>6-20-70</u> TIME: <u>7:45 AM</u>

TYPE OF SAMPE: EFF. WASH (COMPOSITE)	TYPE OF SAMPLE: OTHER <u>MIXED HOUSE EFF.</u>
SAMPLE DATE: <u>6-20-70</u>	SAMPLE DATE: <u>6-20-70</u>
EXPLAIN LOCATION: <u>INNER RING WEIR</u>	EXPLAIN LOCATION: <u>INNER RING WEIR</u>
NAME <u>LAKE</u> TIME <u>7:30 AM</u> VOL: ml <u>1000</u>	NAME <u>LAKE</u> TIME <u>7:30 AM</u> VOL: ml <u>1000</u>
NAME <u>LAKE</u> TIME <u>7:30 AM</u> VOL: ml <u>1000</u>	NAME <u>LAKE</u> TIME <u>7:30 AM</u> VOL: ml <u>1000</u>
NAME <u>LAKE</u> TIME <u>7:30 AM</u> VOL: ml <u>1000</u>	NAME <u>LAKE</u> TIME <u>7:30 AM</u> VOL: ml <u>1000</u>
NAME <u>LAKE</u> TIME <u>7:30 AM</u> VOL: ml <u>1000</u>	NAME <u>LAKE</u> TIME <u>7:30 AM</u> VOL: ml <u>1000</u>
DELIVERED TO: <u>EF LAB</u>	DELIVERED TO: <u>EF LAB</u>
DATE: <u>6-20-70</u> TIME: <u>7:45 AM</u>	DATE: <u>6-20-70</u> TIME: <u>7:45 AM</u>

THE EFFLUENT GRABS (1000 ml)
IN 7-DAYS DURING Bio-
Testing EVENT ☐

TYPE OF SAMPLE: FECAL COLIFORM (GRAB)
SAMPLE DATE: <u>6-21-70</u>
EXPLAIN LOCATION: <u>LAKE</u>
NAME <u>LAKE</u> TIME <u>7:30 AM</u> VOL: ml <u>1000</u>
DELIVERED TO: <u>EF LAB</u>
DATE: <u>6-21-70</u> TIME: <u>7:45 AM</u>

I have accepted: Paul Baker DATE 6/21/70 TIME 9:26

and delivered to: Baker LA DATE 6/21/70 TIME 9:40

I have accepted the above sample:

NAME LAKE DATE 6/21/70 TIME 9:40

and delivered to: LAKE DATE 6/21/70 TIME 9:40

I have accepted the above sample:

NAME LAKE DATE 6/21/70 TIME 9:40

and delivered to: LAKE DATE 6/21/70 TIME 9:40

40C
at
lab

186185

FLOYDS FORK

TYPE OF SAMPLE: INFLUENT (COMPOSITE)
 SAMPLE DATE: 6-23-07
 EXPLAIN LOCATION: PHILIPPS INFLUENT
 NAME TIME VOL: ml 1000
 NAME TIME VOL: ml
 NAME TIME VOL: ml
 NAME TIME VOL: ml
 DELIVERED TO: EF LAB
 DATE: TIME:

TYPE OF SAMPLE: EFFLUENT (COMPOSITE)
 SAMPLE DATE: 6-23-07
 EXPLAIN LOCATION: U-V SYSTEM DISCHARGE
 NAME TIME VOL: ml
 NAME TIME VOL: ml 1000
 NAME TIME VOL: ml
 NAME TIME VOL: ml
 DELIVERED TO: EF LAB
 DATE: 6-23-07 TIME: 8:15 AM

TYPE OF SAMPLE: EFF. NH₃-N (COMPOSITE)
 SAMPLE DATE:
 EXPLAIN LOCATION:
 NAME TIME VOL: ml
 NAME TIME VOL: ml
 NAME TIME VOL: ml
 NAME TIME VOL: ml
 DELIVERED TO:
 DATE: TIME:

TYPE OF SAMPLE: OTHER Mixed Name Sample
 SAMPLE DATE:
 EXPLAIN LOCATION: INNER Ring WEIR
 NAME TIME VOL: ml
 NAME TIME VOL: ml
 NAME TIME VOL: ml
 NAME TIME VOL: ml
 DELIVERED TO: EF LAB
 DATE: TIME:

Time Effluent Grabs 1000 ml
 in 7-DAYS DURING Bio-
 Testing EVENT

TYPE OF SAMPLE: FECAL COLIFORM (GRAB)
 SAMPLE DATE:
 EXPLAIN LOCATION:
 NAME TIME VOL: ml
 DELIVERED TO:
 DATE: TIME:

I have received:

NAME

and delivered to:

I have accepted the above sample:

NAME

and delivered to:

I have accepted the above sample:

NAME

and delivered to:

DATE 6-23-07 TIME 8:15

DATE 6-23-07 TIME 10:45

DATE TIME

DATE TIME

DATE TIME

DATE TIME

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PH