

Section 10

Quality Control Data

Hackensack River Study

Orthophosphate Analysis

[illegible]

[illegible]

REPORT TYPE: JOB SPECIFIC CC

PRECISION DUPLICATES				MATRIX SPINES				BLANK SPINES				REFERENCE STANDARDS			
DATE OF ANALYSIS		ORIG. RESULT	DUP. % REL. WITHIN	AMG. IS/PIE		% WITHIN		METHOD		% WITHIN		REF. ID.		% WITHIN	
LIMITS		REBLT	REBLT	RESULT	PIE	PIE	PIE	PIE	PIE	PIE	PIE	PIE	PIE	PIE	PIE
LIMITS		REBLT	REBLT	RESULT	PIE	PIE	PIE	PIE	PIE	PIE	PIE	PIE	PIE	PIE	PIE
7/13/88	5	0.05	0.08	N C	0.04	0.25	104	Y	< 0.05	0.25	100	Y	Ref Std	1.80	98.9
7/13/88	16	0.27	0.29	5.69	0.28	0.25	104	Y	< 0.05	0.25	112	Y	Ref Std	1.80	98.7
7/13/88	24	0.05	0.05	N C	0.00	0.25	111	Y	< 0.05	0.25	112	Y	Ref Std	1.80	98.3
7/13/88	37	0.05	0.05	N C	0.00	0.25	113	Y	< 0.05	0.25	117	Y	Ref Std	1.80	100
7/13/88	56	0.05	0.05	N C	0.00	0.25	113	Y	< 0.05	0.25	111	Y	Ref Std	1.80	101
7/13/88	86	0.05	0.05	N C	0.05	0.25	100	IN	< 0.05	0.25	114	Y	Ref Std	1.80	98.9
7/13/88	159	0.40	0.35	113.33	0.33	0.25	82.0	IN	< 0.05	0.25	98.4	Y	Ref Std	1.80	97.9
7/13/88	160	0.05	0.05	N C	0.05	0.25	60.0	IN	< 0.05	0.25	80.0	Y	Ref Std	1.80	92.4
7/13/88									< 0.05	0.25	47.6	IN	Ref Std	1.80	92.9
7/13/88									< 0.05	0.25	49.6	IN	Ref Std	1.80	91.7
7/13/88									< 0.05	0.25	32.4	IN	Ref Std	1.80	96.2
7/13/88									< 0.05	0.25	77.6	Y	Ref Std	1.80	90.2
7/13/88									< 0.05	0.25	81.6	Y	Ref Std	1.80	95.0
7/13/88									< 0.05	0.25	73.1	Y	Ref Std	1.80	79.5
7/13/88									< 0.05	0.25	68.7	Y	Ref Std	1.80	56.3
7/13/88									< 0.05	0.25	34.1	IN	Ref Std	1.80	68.5
7/13/88									< 0.05	0.25	38.4	IN			
7/13/88									< 0.05	0.25	N C	IN			
7/13/88									< 0.05	0.25	N C	IN			
7/13/88									< 0.05	0.25	47.1	IN			
7/13/88									< 0.05	0.25	34.1	IN			
7/14/88	197	0.74	0.56	26.8	0.65	0.25	70.0	Y	< 0.05	0.25	196.00	Y	Ref Std	1.80	96.1
7/14/88	198	0.63	0.61	3.41	0.62	0.25	86.2	Y	< 0.05	0.25	136.00	IN	Ref Std	1.80	86.7
7/14/88	217	0.54	0.49	7.97	0.51	0.25	93.0	Y	< 0.05	0.25	0.00	IN	Ref Std	1.80	87.2
7/14/88	218	0.50	0.50	10.42	0.50	0.25	79.2	Y	< 0.05	0.25	0.00	IN	Ref Std	1.80	82.8
7/14/88									< 0.05	0.25	0.00	IN	Ref Std	1.80	0.0
7/14/88									< 0.05	0.25	0.00	IN	Ref Std	1.80	66.1
7/14/88									< 0.05	0.25	0.00	IN			
7/14/88	225	0.61	0.61	10.491	0.61	0.25	103	Y	< 0.05	0.25	85.6	Y	Ref Std	1.80	97.8
7/14/88	226	0.60	0.65	8.67	0.62	0.25	109	Y	< 0.05	0.25	80.4	Y	Ref Std	1.80	97.2
7/14/88	230	0.45	0.51	12.6	0.48	0.25	119	Y	< 0.05	0.25	36.0	IN	Ref Std	1.80	94.4
7/14/88	242	0.49	0.51	5.19	0.50	0.25	30.4	IN	< 0.05	0.25	36.0	IN	Ref Std	1.80	91.7
7/14/88	263	0.45	0.45	10.444	0.45	0.25	64.4	IN	< 0.05	0.25	0.00	IN	Ref Std	1.80	89.4
7/14/88									< 0.05	0.25	0.00	IN	Ref Std	1.80	77.7
7/14/88	309	0.35	0.32	9.04	0.33	0.25	110	Y	< 0.05	0.25	99.2	Y	Ref Std	1.80	93.67
7/14/88	332	0.25	0.18	23.8	0.22	0.25	86.0	Y	< 0.05	0.25	84.0	Y	Ref Std	1.80	92.73
7/14/88	335	0.17	0.21	16.4	0.19	0.25	79.0	Y	< 0.05	0.25	74.4	Y	Ref Std	1.80	91.11
7/14/88	332	0.25	0.24	1.64	0.24	0.25	25.6	IN	< 0.05	0.25	0.0	IN	Ref Std	1.80	88.88
7/14/88	354	0.16	0.18	0.0	0.18	0.25	60.4	IN	< 0.05	0.25	0.0	IN	Ref Std	1.80	85.72
7/14/88	335	0.14	0.16	16.5	0.15	0.25	40.2	IN	< 0.05	0.25	0.0	IN	Ref Std	1.80	79.67
7/14/88									< 0.05	0.25	0.0	IN	Ref Std	1.80	71.39
7/14/88									< 0.05	0.25	0.0	IN	Ref Std	1.80	55.67
7/14/88									< 0.05	0.25	0.0	IN	Ref Std	1.80	67.50
7/14/88									< 0.05	0.25	0.0	IN	Ref Std	1.80	55.69

Orthophosphate	FOSPHATE UNIT VALUE				THIRD QUARTER				PERIOD 1980-1981				PERIOD 1981-1982				PERIOD 1982-1983				PERIOD 1983-1984				PERIOD 1984-1985				PERIOD 1985-1986				PERIOD 1986-1987				PERIOD 1987-1988				PERIOD 1988-1989				PERIOD 1989-1990				PERIOD 1990-1991				PERIOD 1991-1992				PERIOD 1992-1993				PERIOD 1993-1994				PERIOD 1994-1995				PERIOD 1995-1996				PERIOD 1996-1997				PERIOD 1997-1998				PERIOD 1998-1999				PERIOD 1999-2000				PERIOD 2000-2001				PERIOD 2001-2002				PERIOD 2002-2003				PERIOD 2003-2004				PERIOD 2004-2005				PERIOD 2005-2006				PERIOD 2006-2007				PERIOD 2007-2008				PERIOD 2008-2009				PERIOD 2009-2010				PERIOD 2010-2011				PERIOD 2011-2012				PERIOD 2012-2013				PERIOD 2013-2014				PERIOD 2014-2015				PERIOD 2015-2016				PERIOD 2016-2017				PERIOD 2017-2018				PERIOD 2018-2019				PERIOD 2019-2020				PERIOD 2020-2021				PERIOD 2021-2022				PERIOD 2022-2023				PERIOD 2023-2024				PERIOD 2024-2025				PERIOD 2025-2026				PERIOD 2026-2027				PERIOD 2027-2028				PERIOD 2028-2029				PERIOD 2029-2030				PERIOD 2030-2031				PERIOD 2031-2032				PERIOD 2032-2033				PERIOD 2033-2034				PERIOD 2034-2035				PERIOD 2035-2036				PERIOD 2036-2037				PERIOD 2037-2038				PERIOD 2038-2039				PERIOD 2039-2040				PERIOD 2040-2041				PERIOD 2041-2042				PERIOD 2042-2043				PERIOD 2043-2044				PERIOD 2044-2045				PERIOD 2045-2046				PERIOD 2046-2047				PERIOD 2047-2048				PERIOD 2048-2049				PERIOD 2049-2050				PERIOD 2050-2051				PERIOD 2051-2052				PERIOD 2052-2053				PERIOD 2053-2054				PERIOD 2054-2055				PERIOD 2055-2056				PERIOD 2056-2057				PERIOD 2057-2058				PERIOD 2058-2059				PERIOD 2059-2060				PERIOD 2060-2061				PERIOD 2061-2062				PERIOD 2062-2063				PERIOD 2063-2064				PERIOD 2064-2065				PERIOD 2065-2066				PERIOD 2066-2067				PERIOD 2067-2068				PERIOD 2068-2069				PERIOD 2069-2070				PERIOD 2070-2071				PERIOD 2071-2072				PERIOD 2072-2073				PERIOD 2073-2074				PERIOD 2074-2075				PERIOD 2075-2076				PERIOD 2076-2077				PERIOD 2077-2078				PERIOD 2078-2079				PERIOD 2079-2080				PERIOD 2080-2081				PERIOD 2081-2082				PERIOD 2082-2083				PERIOD 2083-2084				PERIOD 2084-2085				PERIOD 2085-2086				PERIOD 2086-2087				PERIOD 2087-2088				PERIOD 2088-2089				PERIOD 2089-2090				PERIOD 2090-2091				PERIOD 2091-2092				PERIOD 2092-2093				PERIOD 2093-2094				PERIOD 2094-2095				PERIOD 2095-2096				PERIOD 2096-2097				PERIOD 2097-2098				PERIOD 2098-2099				PERIOD 2099-2100				PERIOD 2100-2101				PERIOD 2101-2102				PERIOD 2102-2103				PERIOD 2103-2104				PERIOD 2104-2105				PERIOD 2105-2106				PERIOD 2106-2107				PERIOD 2107-2108				PERIOD 2108-2109				PERIOD 2109-2110				PERIOD 2110-2111				PERIOD 2111-2112				PERIOD 2112-2113				PERIOD 2113-2114				PERIOD 2114-2115				PERIOD 2115-2116				PERIOD 2116-2117				PERIOD 2117-2118				PERIOD 2118-2119				PERIOD 2119-2120				PERIOD 2120-2121				PERIOD 2121-2122				PERIOD 2122-2123				PERIOD 2123-2124				PERIOD 2124-2125				PERIOD 2125-2126				PERIOD 2126-2127				PERIOD 2127-2128				PERIOD 2128-2129				PERIOD 2129-2130				PERIOD 2130-2131				PERIOD 2131-2132				PERIOD 2132-2133				PERIOD 2133-2134				PERIOD 2134-2135				PERIOD 2135-2136				PERIOD 2136-2137				PERIOD 2137-2138				PERIOD 2138-2139				PERIOD 2139-2140				PERIOD 2140-2141				PERIOD 2141-2142				PERIOD 2142-2143				PERIOD 2143-2144				PERIOD 2144-2145				PERIOD 2145-2146				PERIOD 2146-2147				PERIOD 2147-2148				PERIOD 2148-2149				PERIOD 2149-2150				PERIOD 2150-2151				PERIOD 2151-2152				PERIOD 2152-2153				PERIOD 2153-2154				PERIOD 2154-2155				PERIOD 2155-2156				PERIOD 2156-2157				PERIOD 2157-2158				PERIOD 2158-2159				PERIOD 2159-2160				PERIOD 2160-2161				PERIOD 2161-2162				PERIOD 2162-2163				PERIOD 2163-2164				PERIOD 2164-2165				PERIOD 2165-2166				PERIOD 2166-2167				PERIOD 2167-2168				PERIOD 2168-2169				PERIOD 2169-2170				PERIOD 2170-2171				PERIOD 2171-2172				PERIOD 2172-2173				PERIOD 2173-2174				PERIOD 2174-2175				PERIOD 2175-2176				PERIOD 2176-2177				PERIOD 2177-2178				PERIOD 2178-2179				PERIOD 2179-2180				PERIOD 2180-2181				PERIOD 2181-2182				PERIOD 2182-2183				PERIOD 2183-2184				PERIOD 2184-2185				PERIOD 2185-2186				PERIOD 2186-2187				PERIOD 2187-2188				PERIOD 2188-2189				PERIOD 2189-2190				PERIOD 2190-2191				PERIOD 2191-2192				PERIOD 2192-2193				PERIOD 2193-2194				PERIOD 2194-2195				PERIOD 2195-2196				PERIOD 2196-2197				PERIOD 2197-2198				PERIOD 2198-2199				PERIOD 2199-2200				PERIOD 2200-2201				PERIOD 2201-2202				PERIOD 2202-2203				PERIOD 2203-2204				PERIOD 2204-2205				PERIOD 2205-2206				PERIOD 2206-2207				PERIOD 2207-2208				PERIOD 2208-2209				PERIOD 2209-2210				PERIOD 2210-2211				PERIOD 2211-2212				PERIOD 2212-2213				PERIOD 2213-2214				PERIOD 2214-2215				PERIOD 2215-2216				PERIOD 2216-2217				PERIOD 2217-2218				PERIOD 2218-2219				PERIOD 2219-2220				PERIOD 2220-2221				PERIOD 2221-2222				PERIOD 2222-2223				PERIOD 2223-2224				PERIOD 2224-2225				PERIOD 2225-2226				PERIOD 2226-2227				PERIOD 2227-2228				PERIOD 2228-2229				PERIOD 2229-2230				PERIOD 2230-2231				PERIOD 2231-2232				PERIOD 2232-2233				PERIOD 2233-2234				PERIOD 2234-2235				PERIOD 2235-2236				PERIOD 2236-2237				PERIOD 2237-2238				PERIOD 2238-2239				PERIOD 2239-2240				PERIOD 2240-2241				PERIOD 2241-2242				PERIOD 2242-2243				PERIOD 2243-2244				PERIOD 2244-2245				PERIOD 2245-2246				PERIOD 2246-2247				PERIOD 2247-2248				PERIOD 2248-2249				PERIOD 2249-2250				PERIOD 2250-2251				PERIOD 2251-2252				PERIOD 2252-2253				PERIOD 2253-2254				PERIOD 2254-2255				PERIOD 2255-2256				PERIOD 2256-2257				PERIOD 2257-2258				PERIOD 2258-2259				PERIOD 2259-2260				PERIOD 2260-2261				PERIOD 2261-2262				PERIOD 2262-2263				PERIOD 2263-2264				PERIOD 2264-2265				PERIOD 2265-2266				PERIOD 2266-2267				PERIOD 2267-2268				PERIOD 2268-2269				PERIOD 2269-2270				PERIOD 2270-2271				PERIOD 2271-2272				PERIOD 2272-2273				PERIOD 2273-2274				PERIOD 2274-2275				PERIOD 2275-2276				PERIOD 2276-2277				PERIOD 2277-2278				PERIOD 2278-2279				PERIOD 2279-2280				PERIOD 2280-2281				PERIOD 2281-2282				PERIOD 2282-2283				PERIOD 2283-2284				PERIOD 2284-2285				PERIOD 2285-2286				PERIOD 2286-2287				PERIOD 2287-2288				PERIOD 2288-2289				PERIOD 2289-2290				PERIOD 2290-2291				PERIOD 2291-2292				PERIOD 2292-2293				PERIOD 2293-2294				PERIOD 2294-2295				PERIOD 2295-2296				PERIOD 2296-2297				PERIOD 2297-2298				PERIOD 2298-2299				PERIOD 2299-2300				PERIOD 2300-2301				PERIOD 2301-2302				PERIOD 2302-2303				PERIOD 2303-2304				PERIOD 2304-2305				PERIOD 2305-2306				PERIOD 2306-2307				PERIOD 2307-2308				PERIOD 2308-2309				PERIOD 2309-2310				PERIOD 2310-2311				PERIOD 2311-2312				PERIOD 2312-2313				PERIOD 2313-2314				PERIOD 2314-2315				PERIOD 2315-2316				PERIOD 2316-2317				PERIOD 2317-2318				PERIOD 2318-2319				PERIOD 2319-2320				PERIOD 2320-2321				PERIOD 2321-2322				PERIOD 2322-2323				PERIOD 2323-2324				PERIOD 2324-2325				PERIOD 2325-2326				PERIOD 2326-2327				PERIOD 2327-2328				PERIOD 2328-2329				PERIOD 2329-2330				PERIOD 2330-2331				PERIOD 2331-2332				PERIOD 2332-2333				PERIOD 2333-2334				PERIOD 2334-2335				PERIOD 2335-2336				PERIOD 2336-2337				PERIOD 2337-2338				PERIOD 2338-2339				PERIOD 2339-2340				PERIOD 2340-2341				PERIOD 2341-2342				PERIOD 2342-2343				PERIOD 2343-2344				PERIOD 2344-2345				PERIOD 2345-2346				PERIOD 2346-2347				PERIOD 2347-2348				PERIOD 2348-2349				PERIOD 2349-2350				PERIOD 2350-2351				PERIOD 2351-2352				PERIOD 2352-2353				PERIOD 2353-2354				PERIOD 2354-2355				PERIOD 2355-2356				PERIOD 2356-2357				PERIOD 2357-2358				PERIOD 2358-2359				PERIOD 2359-2360				PERIOD 2360-2361				PERIOD 2361-2362				PERIOD 2362-2363				PERIOD 2363-2364				PERIOD 2364-2365				PERIOD 2365-2366				PERIOD 2366-2367				PERIOD 2367-2368				PERIOD 2368-2369				PERIOD 2369-2370				PERIOD 2370-2371				PERIOD 2371-2372				PERIOD 2372-2373				PERIOD 2373-2374				PERIOD 2374-2375				PERIOD 2375-2376				PERIOD 2376-2377				PERIOD 2377-2378				PERIOD 2378-2379				PERIOD 2379-2380				PERIOD 2380-2381				PERIOD 2381-2382				PERIOD 2382-2383				PERIOD 2383-2384				PERIOD 2384-2385				PERIOD 2385-2386				PERIOD 2386-2387				PERIOD 2387-2388				PERIOD 2388-2389				PERIOD 2389-2390				PERIOD 2390-2391				PERIOD 2391-2392				PERIOD 2392-2393				PERIOD 2393-2394				PERIOD 2394-2395				PERIOD 2395-2396				PERIOD 2396-2397				PERIOD 2397-2398				PERIOD 2398-2399				PERIOD 2399-2400				PERIOD 2400-2401				PERIOD 2401-2402				PERIOD 2402-2403				PERIOD 2403-2404				PERIOD 2404-2405				PERIOD 2405-2406				PERIOD 2406-2407				PERIOD 2407-2408				PERIOD 2408-2409				PERIOD 2409-2410				PERIOD 2410-2411				PERIOD 2411-2412				PERIOD 2412-2413				PERIOD 2413-2414				PERIOD 2414-2415				PERIOD 2415-2416				PERIOD 2416-2417				PERIOD 2417-2418				PERIOD 2418-2419				PERIOD 2419-2420				PERIOD 2420-2421				PERIOD 2421-2422				PERIOD 2422-2423				PERIOD 2423-2424				PERIOD 2424-2425				PERIOD 2425-2426				PERIOD 2426-2427				PERIOD 2427-2428				PERIOD 2428-2429				PERIOD 2429-2430				PERIOD 2430-2431				PERIOD 2431-2432				PERIOD 2432-2433				PERIOD 2433-2434				PERIOD 2434-2435				PERIOD 2435-2436				PERIOD 2436-2437				PERIOD 2437-2438				PERIOD 2438-2439				PERIOD 2439-2440				PERIOD 2440-2441				PERIOD 2441-2442				PERIOD 2442-2443				PERIOD 2443-2444				PERIOD 2444-2445				PERIOD 2445-2446				PERIOD 2446-2447				PERIOD 2447-2448				PERIOD 2448-2449				PERIOD 2449-2450				PERIOD 2450-2451				PERIOD 2451-2452				PERIOD 2452-2453				PERIOD 2453-2454				PERIOD 2454-2455				PERIOD 2455-2456				PERIOD 2456-2457				PERIOD 2457-2458				PERIOD 2458-2459				PERIOD 2459-2460				PERIOD 2460-2461				PERIOD 2461-2462				PERIOD 2462-2463				PERIOD 2463-2464				PERIOD 2464-2465				PERIOD 2465-2466				PERIOD 2466-2467				PERIOD 2467-2468				PERIOD 2468-2469				PERIOD 2469-2470				PERIOD 2470-2471				PERIOD 2471-2472				PERIOD 2472-2473				PERIOD 2473-2474				PERIOD 2474-2475				PERIOD 2475-2476				PERIOD 2476-2477				PERIOD 2477-2478				PERIOD 2478-2479				PERIOD 2479-2480				PERIOD 2480-2481				PERIOD 2481-2482				PERIOD 2482-2483				PERIOD 2483-2484				PERIOD 2484-2485				PERIOD 2485-2486				PERIOD 2486-2487				PERIOD 2487-2488				PERIOD 2488-2489				PERIOD 2489-2490				PERIOD 2490-2491				PERIOD 2491-2492				PERIOD 2492-2493				PERIOD 2493-2494				PERIOD 2494-2495				PERIOD 2495-2496				PERIOD 2496-2497				PERIOD 2497-2498				PERIOD 2498-2499				PERIOD 2499-2500				PERIOD 2500-2501				PERIOD 2501-2502				PERIOD 2502-2503				PERIOD 2503-2504				PERIOD 2504-2505				PERIOD 2505-2506				PERIOD 2506-2507				PERIOD 2507-2508				PERIOD 2508-2509				PERIOD 2509-2510				PERIOD 2510-2511				PERIOD 2511-2512				PERIOD 2512-2513				PERIOD 2513-2514				PERIOD 2514-2515				PERIOD 2515-2516				PERIOD 2516-2517				PERIOD 2517-2518				PERIOD 2518-2519				PERIOD 2519-2520				PERIOD 2520-2521				PERIOD 2521-2522				PERIOD 2522-2523				PERIOD 2523-2524				PERIOD 2524-2525				PERIOD 2525-2526				PERIOD 2526-2527				PERIOD 2527-2528				PERIOD 2528-2529				PERIOD 2529-2530				PERIOD 2530-2531				PERIOD 2531-2532				PERIOD 2532-2533				PERIOD 2533-2534				PERIOD 2534-2535				PERIOD 2535-2536				PERIOD 2536-2537				PERIOD 2537-2538				PERIOD 2538-2539				PERIOD 2539-2540				PERIOD 2540-2541				PERIOD 2541-2542				PERIOD 2542-2543				PERIOD 2543-2544				PERIOD 2544-2545				PERIOD 2545-2546				PERIOD 2546-2547				PERIOD 2547-2548				PERIOD 2548-2549				PERIOD 2549-2550				PERIOD 2550-2551				PERIOD 2551-2552				PERIOD 2552-2553				PERIOD 2553-2554				PERIOD 2554-2555				PERIOD 2555-2556				PERIOD 2556-2557				PERIOD 2557-2558				PERIOD 2558-2559				PERIOD 2559-2560				PERIOD 2560-2561				PERIOD 2561-2562				PERIOD 2562-2563				PERIOD 2563-2564				PERIOD 2564-2565				PERIOD 2565-2566				PERIOD 2566-2567				PERIOD 2567-2568				PERIOD 2568-2569				PERIOD 2569-2570				PERIOD 2570-2571				PERIOD 2571-2572				PERIOD 2572-2573				PERIOD 2573-2574				PERIOD 2574-2575				PERIOD 2575-2576				PERIOD 2576-2577				PERIOD 2577-2578				PERIOD 2578-2579				PERIOD 2579-2580				PERIOD 2580-2581				PERIOD 2581-2582				PERIOD 2582-2583				PERIOD 2583-2584				PERIOD 2584-2585				PERIOD 2585-2586				PERIOD 2586-2587				PERIOD 2587-2588				PERIOD 2588-2589				PERIOD 2589-2590				PERIOD 2590-2591				PERIOD 2591-2592				PERIOD 2592-2593				PERIOD 2593-2594				PERIOD 2594-2595				PERIOD 2595-2596				PERIOD 2596-2597							
----------------	---------------------	--	--	--	---------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	------------------	--	--	--	--	--	--	--

Orthophosphate	PRECISION DATA				MATRIX EFFECTS				CALIBRATION				RECOVERY DATA				
	ACCEPT. LIMITS		18		LIMITS		66-125		LIMITS		68-121		LIMITS		67-107		
	DATE OF ANALYSIS	CONC. RESULT	DEF. % REL. PRECISION	REL. PRECISION	AVG. RESULT	ISDUE	% RECOVERY	WITHIN LIMITS	NETDUE	ISDUE	% RECOVERY	WITHIN LIMITS	REF. ID.	RECOVERED	% RECOVERY	WITHIN LIMITS	
7/18B/BB1	742	0.45	100.05	N C	0.22	0.25	123.60	IN	< 0.051	0.25	0.0	IN	118F Std	1.00	91.9	Y	
7/18B/BB1	757	0.16	100.00	140	0.47	0.25	236	IN	< 0.051	0.25	48.0	IN	118F Std	1.00	80.5	IN	
7/18B/BB1									< 0.051	0.25	59.6	IN	118F Std	1.00	91.3	Y	
7/18B/BB1									< 0.051	0.25			118F Std	1.00	92.7	Y	
7/18C/BB1	813	0.69	0.75	7.93	Y	0.72	0.25	109	Y	< 0.051	0.25	194	Y	118F Std	1.00	92.8	Y
7/18C/BB1	814	0.75	0.75	6.00	Y	0.75	0.25	71.6	Y	< 0.051	0.25	86.4	Y	118F Std	1.00	88.9	Y
7/18C/BB1	832	0.71	0.76	6.80	Y	0.74	0.25	106	Y	< 0.051	0.25	93.6	Y	118F Std	1.00	90.0	Y
7/18C/BB1	833	0.74	0.77	4.52	Y	0.75	0.25	103	Y	< 0.051	0.25	92.0	Y	118F Std	1.00	91.1	Y
7/18C/BB1	878	0.49	0.50	2.02	Y	0.50	0.25	90.0	Y	< 0.051	0.25	95.6	Y	118F Std	1.00	93.9	Y
7/18C/BB1	879	0.53	0.53	9.01	Y	0.56	0.25	90.0	Y	< 0.051	0.25	91.2	Y	118F Std	1.00	90.6	Y
7/18C/BB1	871	0.16	0.56	109	IN	0.57	0.25	110	Y	< 0.051	0.25	81.0	Y	118F Std	1.00	90.0	Y
7/18C/BB1	872	0.55	0.58	5.31	Y	0.57	0.25	110	Y	< 0.051	0.25	77.0	Y	118F Std	1.00	88.9	Y
7/18C/BB1	884	0.48	0.71	4.90	Y	0.69	0.25	108	Y	< 0.051	0.25	84.0	Y	118F Std	1.00	91.7	Y
7/18C/BB1	885	0.67	0.67	1.36	Y	0.67	0.25	105	Y	< 0.051	0.25	88.0	Y	118F Std	1.00	88.9	Y
7/18C/BB1									< 0.051	0.25	98.8	Y	118F Std	1.00	93.3	Y	
7/18C/BB1									< 0.051	0.25	76.0	Y	118F Std	1.00	93.3	Y	
7/19/BB1	919	0.05	100.05	N C	0.15	0.25	16.0	IN	< 0.051	0.25	60.4	IN	118F Std	1.00	92.9	Y	
7/19/BB1	920	0.15	100.05	N C	0.15	0.25	78.0	IN	< 0.051	0.25	13.2	IN	118F Std	1.00	95.0	Y	
7/19/BB1	921	0.15	100.05	N C	0.15	0.25	75.2	Y	< 0.051	0.25	50.0	IN	118F Std	1.00	91.1	Y	
7/19/BB1	927	0.15	100.05	N C	0.15	0.25	67.6	Y	< 0.051	0.25	64.0	IN	118F Std	1.00	90.0	Y	
7/19/BB1	938	0.05	100.05	N C	0.15	0.25	90.0	IN	< 0.051	0.25	101	Y	118F Std	1.00	92.2	Y	
7/19/BB1	948	0.57	0.54	5.08	Y	0.73	0.25	106	Y	< 0.051	0.25	81.6	Y	118F Std	1.00	92.0	Y
7/19/BB1	949	0.35	0.55	0.91	Y	0.35	0.25	101	Y	< 0.051	0.25	82.4	Y	118F Std	1.00	91.1	Y
7/19B/BB1	961	0.40	0.62	43.1	IN	0.51	0.25	139	IN	< 0.051	0.25	56.0	IN	118F Std	1.00	90.0	Y
7/19B/BB1	962	0.73	0.60	3.57	Y	0.59	0.25	199	Y	< 0.051	0.25	65.2	IN	118F Std	1.00	95.3	Y
7/19B/BB1	968	0.15	100.05	N C	0.15	0.25	30.6	IN	< 0.051	0.25	101	Y	118F Std	1.00	92.2	Y	
7/19B/BB1	981	0.73	0.72	10.962	Y	0.73	0.25	99.4	Y	< 0.051	0.25	50.0	IN	118F Std	1.00	92.0	Y
7/19B/BB1	981	0.69	0.71	3.88	Y	0.70	0.25	106	Y	< 0.051	0.25	81.6	Y	118F Std	1.00	91.1	Y
7/19B/BB1	987	0.86	0.87	1.27	Y	0.87	0.25	110	Y	< 0.051	0.25	82.4	Y	118F Std	1.00	91.1	Y
7/19B/BB1	996	0.80	0.81	0.744	Y	0.81	0.25	126	IN	< 0.051	0.25	96.0	Y	118F Std	1.00	95.6	Y
7/19C/BB1	970	0.15	100.05	N C	0.15	0.25	80.0	Y	< 0.051	0.25	96.8	Y	118F Std	1.00	94.1	Y	
7/19C/BB1	1006	0.15	100.05	N C	0.15	0.25	79.2	Y	< 0.051	0.25	331	Y	118F Std	1.00	93.8	Y	
7/19C/BB1	1039	0.15	100.05	N C	0.15	0.25	94.8	Y	< 0.051	0.25	101	Y	118F Std	1.00	93.5	Y	
7/19C/BB1	1012	0.71	0.71	10.987	Y	0.71	0.25	115	Y	< 0.051	0.25	7.8	Y	118F Std	1.00	95.0	Y
7/19C/BB1	1013	0.48	0.75	10.4	Y	0.71	0.25	106	Y	< 0.051	0.25	96.0	Y	118F Std	1.00	93.7	IN
7/19C/BB1	1030	0.15	100.05	N C	0.15	0.25	16.8	Y	< 0.051	0.25	96.0	Y	118F Std	1.00	98.1	IN	
7/19C/BB1	1026	0.55	0.71	25.2	IN	0.63	0.25	163	IN	< 0.051	0.25	98.4	Y	118F Std	1.00	99.4	Y
7/19C/BB1	1027	0.77	0.76	10.652	Y	0.77	0.25	106	Y	< 0.051	0.25	191	IN	118F Std	1.00	96.9	Y
7/19C/BB1	1028	0.15	100.05	N C	0.15	0.25	60.0	IN	< 0.051	0.25	90.4	Y	118F Std	1.00	95.1	Y	
7/19C/BB1	1067	0.11	100.05	N C	0.15	0.25	41.6	IN	< 0.051	0.25	90.4	Y	118F Std	1.00	96.9	Y	
7/19C/BB1									< 0.051	0.25			118F Std	1.00	95.1	Y	
7/19C/BB1									< 0.051	0.25			118F Std	1.00	96.5	Y	
7/20/BB1	1088	0.15	100.05	N C	0.15	0.25	179.20	Y	< 0.051	0.25	193.20	Y	118F Std	1.00	99.1	Y	
7/20/BB1									< 0.051	0.25	101	Y	118F Std	1.00	95.0	Y	
7/20/BB1									< 0.051	0.25	173.20	Y	118F Std	1.00	92.5	Y	
7/20/BB1									< 0.051	0.25	150.40	IN	118F Std	1.00	92.2	Y	
7/20/BB1									< 0.051	0.25	179.20	Y	118F Std	1.00	92.9	Y	
7/20B/BB1	1117	0.15	100.05	N C	0.15	0.25	110	Y	< 0.051	0.25	96.4	Y	118F Std	1.00	91.6	Y	

[illegible]

[illegible]

[illegible]

Orthophosphate

[illegible]

CUSTOMER: Clinton Bogert

JOE#: HATCHER, RICHARD - River Study
SAMPLING EVENT: NOVEMBER 1988

PARAMETER: CONDENSATE
UNITS: mg/l

REPORT TYPE: JOB SPECIFIC DC

PRECISION INDICATES				MATRIX SPICES				BLANK SPICES				REFERENCE STANDARDS			
11 Accept. Limits: 10				11 Accept. Limits: 65-125				11 Accept. Limits: 68-121				11 Accept. Limits: 87-107			
DATE OF ANALYSIS	ORG.	IMP.	% REL. IMP.	IMP.	% IMP.	IMP.	% IMP.	IMP.	% IMP.	IMP.	% IMP.	IMP.	% IMP.	IMP.	% IMP.
11/8/88	10	1.94	1.92	2.06	1.94	2.50	74.4	1.94	2.50	74.4	1.94	2.50	74.4	1.94	2.50
11/8/88	19	0.74	0.71	3.46	0.72	0.25	18.6	0.72	0.25	18.6	0.72	0.25	18.6	0.72	0.25
11/8/88	41	0.23	0.23	0.846	0.23	0.25	98.0	0.23	0.25	98.0	0.23	0.25	98.0	0.23	0.25
11/8/88	42	0.68	0.69	1.32	0.68	0.25	97.6	0.68	0.25	97.6	0.68	0.25	97.6	0.68	0.25
11/8/88	63	0.23	0.19	22.7	0.23	0.25	94.8	0.23	0.25	94.8	0.23	0.25	94.8	0.23	0.25
11/8/88	64	0.29	0.27	3.29	0.29	0.25	14.8	0.29	0.25	14.8	0.29	0.25	14.8	0.29	0.25
11/8/88	65	0.25	0.26	4.69	0.25	0.25	94.4	0.25	0.25	94.4	0.25	0.25	94.4	0.25	0.25
11/8/88	66	1.08	1.12	3.64	1.08	0.25	92.0	1.08	0.25	92.0	1.08	0.25	92.0	1.08	0.25
11/8/88	67	0.35	0.38	9.34	0.35	0.25	11.5	0.35	0.25	11.5	0.35	0.25	11.5	0.35	0.25
11/8/88	68	0.18	0.23	44.4	0.18	0.25	118	0.18	0.25	118	0.18	0.25	118	0.18	0.25
11/11/88	85	1.36	1.83	29.5	1.36	0.25	22.6	1.36	0.25	22.6	1.36	0.25	22.6	1.36	0.25
11/11/88	89	0.20	0.27	30.7	0.20	0.25	12.0	0.20	0.25	12.0	0.20	0.25	12.0	0.20	0.25
11/11/88	101	1.82	1.65	1.63	1.82	0.25	116	1.82	0.25	116	1.82	0.25	116	1.82	0.25
11/11/88	111	0.22	0.22	0.00	0.22	0.25	115	0.22	0.25	115	0.22	0.25	115	0.22	0.25
11/12/88	122	0.22	0.21	1.87	0.21	0.25	116	0.21	0.25	116	0.21	0.25	116	0.21	0.25
11/12/88	123	0.19	0.21	8.87	0.20	0.25	116	0.20	0.25	116	0.20	0.25	116	0.20	0.25
11/12/88	124	0.21	0.22	4.82	0.21	0.25	117	0.21	0.25	117	0.21	0.25	117	0.21	0.25
11/12/88	157	0.19	0.20	3.64	0.19	0.25	115	0.19	0.25	115	0.19	0.25	115	0.19	0.25
11/12/88	158	0.20	0.20	10.995	0.20	0.25	114	0.20	0.25	114	0.20	0.25	114	0.20	0.25
11/12/88	170	0.18	0.18	3.31	0.18	0.25	112	0.18	0.25	112	0.18	0.25	112	0.18	0.25
11/13/88	180	0.25	0.24	2.05	0.25	0.25	121	0.25	0.25	121	0.25	0.25	121	0.25	0.25
11/13/88	190	0.22	0.22	10.982	0.22	0.25	126	0.22	0.25	126	0.22	0.25	126	0.22	0.25
11/13/88	200	0.23	0.23	5.36	0.23	0.25	124	0.23	0.25	124	0.23	0.25	124	0.23	0.25
11/13/88	204	0.25	0.25	0.00	0.25	0.25	103	0.25	0.25	103	0.25	0.25	103	0.25	0.25
11/13/88	205	0.20	0.23	13.7	0.22	0.25	132	0.22	0.25	132	0.22	0.25	132	0.22	0.25
11/13/88	230	0.22	0.21	3.22	0.22	0.25	117	0.22	0.25	117	0.22	0.25	117	0.22	0.25
11/13/88	231	0.20	0.20	0.00	0.20	0.25	119	0.20	0.25	119	0.20	0.25	119	0.20	0.25
11/13/88	234	0.19	0.20	3.56	0.21	0.25	118	0.21	0.25	118	0.21	0.25	118	0.21	0.25
11/13/88	239	0.20	0.21	3.37	0.20	0.25	134	0.21	0.25	134	0.21	0.25	134	0.21	0.25
11/13/88	241	0.20	0.21	6.76	0.21	0.25	125	0.21	0.25	125	0.21	0.25	125	0.21	0.25
11/13/88	242	0.19	0.19	1.04	0.19	0.25	117	0.19	0.25	117	0.19	0.25	117	0.19	0.25
11/13/88	243	0.20	0.24	21.1	0.20	0.25	117	0.20	0.25	117	0.20	0.25	117	0.20	0.25
11/13/88	250	0.18	0.26	34.5	0.18	0.25	114	0.18	0.25	114	0.18	0.25	114	0.18	0.25
11/13/88	251	0.26	0.26	1.53	0.26	0.25	121	0.26	0.25	121	0.26	0.25	121	0.26	0.25
11/13/88	252	0.27	0.28	1.83	0.27	0.25	121	0.27	0.25	121	0.27	0.25	121	0.27	0.25
11/13/88	253	0.20	0.20	0.00	0.20	0.25	117	0.20	0.25	117	0.20	0.25	117	0.20	0.25
11/13/88	273	0.23	0.23	0.00	0.23	0.25	122	0.23	0.25	122	0.23	0.25	122	0.23	0.25
11/13/88	274	0.21	0.21	10.982	0.21	0.25	117	0.21	0.25	117	0.21	0.25	117	0.21	0.25
11/13/88	6969	0.26	0.26	1.35	0.26	0.25	113	0.26	0.25	113	0.26	0.25	113	0.26	0.25
11/13/88	333	0.25	0.41	49.2	0.25	0.25	145	0.25	0.25	145	0.25	0.25	145	0.25	0.25
11/13/88	444	0.24	0.26	4.35	0.24	0.25	116	0.24	0.25	116	0.24	0.25	116	0.24	0.25

Section 11

Quality Control Data

Hackensack River Study

Salinity Analysis

----- GTC LABORATORY QUALITY CONTROL REPORT -----

CUSTOMER: Clinton Bogart
PARAMETER: SALINITY
UNITS: mg/l

JOB#: Hackensack River Study
SAMPLING EVENT: Apr, Jul, Aug, Nov

II PRECISION DUPLICATES
II Accept. Limits: 9.5
II-----

DATE OF SAMPLE II ORG. I DUP. I % REL. I WITHIN
ANALYSIS I NUMBER I RESULT I RESULT I ERROR I LIMITS

4/12/88	13	II	4.58	4.33	5.61	I	Y
4/12/88	20	II	0.14	0.74	136	IN	
4/12/88	43	II	3.73	2.88	25.7	IN	
4/12/88	56	II	5.21	5.21	0.00	I	Y
4/12/88	71	II	5.26	5.25	0.19	I	Y
4/13/88	85	II	<1	<1	IN.C.	I---	
4/13/88	90	II	4.99	4.90	1.82	I	Y
4/13/88	112	II	5.12	5.08	0.78	I	Y
4/13/88	138	II	17.12	16.62	2.95	I	Y
4/13/88	139	II	15.90	15.70	1.27	I	Y
4/13/88	157	II	7.61	7.54	0.92	I	Y
4/13/88	158	II	7.87	7.79	1.02	I	Y
4/13/88	175	II	8.15	8.12	0.37	I	Y
4/13/88	176	II	7.93	7.97	0.13	I	Y
4/13/88	195	II	13.60	13.20	2.99	I	Y
4/13/88	196	II	13.10	13.60	0.77	I	Y
4/13/88	208	II	12.10	12.00	0.83	I	Y
4/13/88	209	II	12.30	12.30	0.00	I	Y
4/14/88	228	II	8.70	8.60	1.15	I	Y
4/14/88	229	II	8.87	8.84	0.34	I	Y
4/14/88	241	II	7.79	7.72	0.90	I	Y
4/14/88	242	II	7.97	7.89	1.01	I	Y
4/14/88	260	II	11.00	11.00	0.00	I	Y
4/14/88	269	II	3.10	3.07	0.97	I	Y
4/14/88	290	II	<1	<1	IN.C.	I---	
4/14/88	305	II	<1	<1	IN.C.	I---	
4/14/88	319	II	<1	<1	IN.C.	I---	
4/14/88	338	II	<1	<1	IN.C.	I---	
4/15/88	364	II	<1	<1	IN.C.	I---	
4/15/88	377	II	<1	<1	IN.C.	I---	
4/15/88	396	II	<1	<1	IN.C.	I---	
4/15/88	402	II	9.74	9.60	1.45	I	Y
4/15/88	403	II	10.30	9.96	3.36	I	Y
4/15/88	427	II	3.05	7.97	1.00	I	Y
4/15/88	423	II	7.93	7.97	0.13	I	Y
4/15/88	442	II	5.67	5.63	0.71	I	Y
4/15/88	443	II	5.71	6.67	0.60	I	Y
4/15/88	461	II	8.33	8.32	0.12	I	Y
4/15/88	462	II	7.98	7.97	0.13	I	Y
4/15/88	474	II	8.20	8.15	0.61	I	Y
4/15/88	475	II	9.10	9.06	0.44	I	Y
4/15/88	493	II	8.28	8.15	1.58	I	Y
4/16/88	494	II	8.51	8.51	0.00	I	Y

PRECISION DUPLICATES
SALINITY Accept. Limits: 9.5

DATE OF SAMPLE ORG. DUP. % REL. WITHIN
ANALYSIS NUMBER RESULT RESULT ERROR LIMITS

4/16/88	515	4.58	4.54	0.88	Y
4/16/88	537	9.06	8.97	1.00	Y
4/16/88	538	8.94	8.87	0.79	Y
4/17/88	545	<1	<1	IN.C.	---
4/17/88	558	<1	<1	IN.C.	---
4/17/88	614	<1	<1	IN.C.	---
4/17/88	619	<1	<1	IN.C.	---
4/17/88	638	<1	<1	IN.C.	---
4/17/88	651	<1	<1	IN.C.	---
4/17/88	656	7.07	7.02	0.71	Y
4/17/88	667	<1	<1	IN.C.	---
4/17/88	690	6.33	6.32	0.16	Y
4/17/88	691	5.66	5.63	0.53	Y
4/17/88	710	5.48	5.39	1.66	Y
4/17/88	711	5.71	5.59	2.12	Y
4/17/88	721	3.78	3.68	2.68	Y
4/17/88	722	3.81	3.76	1.32	Y
4/17/88	742	5.02	4.98	0.80	Y
4/17/88	743	5.05	5.04	0.20	Y
4/17/88	755	6.15	5.28	15.2	IN
4/17/88	756	5.46	5.44	0.37	Y
4/18/88	774	6.28	6.10	2.91	Y
4/18/88	775	6.51	6.28	3.60	Y
4/18/88	787	4.52	4.51	0.22	Y
4/18/88	738	4.56	4.56	0.00	Y
4/18/88	806	4.79	4.75	0.84	Y
4/18/88	807	4.97	4.96	0.20	Y
4/18/88	813	1.99	1.95	1.53	Y
4/18/88	827	2.25	2.04	9.79	IN
4/18/88	857	1.92	1.90	1.05	Y
4/18/88	892	1.83	1.83	0.00	Y
4/18/88	905	2.16	2.13	1.40	Y
4/19/88	935	2.02	1.93	4.56	Y
4/19/88	940	1.68	1.68	0.00	Y
4/19/88	952	1.86	1.84	1.08	Y
4/19/88	979	4.18	4.17	0.24	Y
4/19/88	930	4.36	4.36	0.00	Y
4/19/88	998	4.61	4.58	0.65	Y
4/19/88	999	4.72	4.69	0.64	Y
4/19/88	1017	3.45	3.45	0.00	Y
4/19/88	1018	3.37	3.37	0.00	Y
4/19/88	1037	3.37	3.36	0.30	Y
4/19/88	1038	3.47	3.42	1.45	Y
4/19/88	1051	10.40	9.20	12.2	IN
4/20/88	1067	1.99	1.71	15.1	IN
4/20/88	1070	4.23	4.20	0.71	Y
4/20/88	1082	3.70	3.69	0.27	Y
4/20/88	1083	3.72	3.71	0.27	Y
4/20/88	1103	2.92	3.02	3.37	Y
4/20/88	1104	2.96	2.94	0.68	Y
4/20/88	1105	1.21	1.27	3.10	Y

PRECISION DUPLICATES
SALINITY Accept. Limits: 9.5

DATE OF SAMPLE | ORG. | DUP. | % REL. | WITHIN
ANALYSIS NUMBER | RESULT | RESULT | ERROR | LIMITS

4/20/88	1145	1.51	1.49	1.33	Y
4/20/88	1159	<1	<1	IN.C.	----
4/20/88	1178	1.32	1.30	1.53	Y
4/22/88	1223	<1	<1	IN.C.	----
4/22/88	1244	<1	<1	IN.C.	----
4/22/88	1273	<1	<1	IN.C.	----
4/22/88	1286	<1	<1	IN.C.	----
4/22/88	1300	<1	<1	IN.C.	----
4/22/88	1321	<1	<1	IN.C.	----
4/23/88	1340	<1	<1	IN.C.	----
4/23/88	1361	<1	<1	IN.C.	----
4/23/88	1372	<1	<1	IN.C.	----
July 12	5	0.43	0.40	7.14	Y
July 12	24	0.41	0.41	0.00	Y
July 12	37	0.43	0.37	15.0	IN
July 12	56	0.42	0.43	2.35	Y
July 12	86	0.31	0.23	29.6	IN
July 12	159	4.76	5.24	9.60	IN
July 12	160	0.40	0.36	10.5	IN
July 12	172	23.50	121.40	9.35	Y
July 13	225	11.80	111.60	1.71	Y
July 13	198	8.77	8.73	0.46	Y
July 13	199	8.57	6.57	26.4	IN
July 13	218	10.70	10.70	0.00	Y
July 13	219	9.16	9.09	12.4	IN
July 13	249	11.60	111.60	0.00	Y
July 13	250	12.00	112.00	0.00	Y
July 13	263	9.02	9.52	5.39	Y
July 13	297	4.50	4.89	8.31	Y
July 13	309	4.95	4.80	3.08	Y
July 14	335	4.10	4.23	3.12	Y
July 14	322	4.06	4.15	2.19	Y
July 14	354	4.38	4.32	1.38	Y
July 14	367	4.74	4.73	0.21	Y
July 14	394	4.97	4.63	7.08	Y
July 14	399	11.30	8.45	28.9	IN
July 14	407	4.24	4.29	1.17	Y
July 14	420	15.80	115.30	3.22	Y
July 14	422	13.80	115.50	11.6	IN
July 14	438	18.60	118.20	2.17	Y
July 14	439	18.30	118.40	0.54	Y
July 15	451	16.40	115.90	3.10	Y
July 15	452	15.70	116.80	6.77	Y
July 15	471	14.00	114.00	0.00	Y
July 15	472	13.80	114.50	4.95	Y
July 15	486	15.50	115.10	2.61	Y
July 15	487	15.50	115.60	0.54	Y
July 15	509	17.90	118.10	1.11	Y
July 15	510	18.90	119.00	0.53	Y
July 15	527	14.50	114.70	1.37	Y
July 15	528	15.20	115.50	1.95	Y

PRECISION DUPLICATES
SALINITY Accept. Limits: 9.5

DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS
July 15	546	14.10	14.10	0.00	Y
July 15	547	14.20	13.90	2.14	Y
July 15	561	18.50	17.90	3.30	Y
July 15	581	17.10	15.00	13.1	IN
July 15	582	17.80	17.60	1.13	Y
July 15	589	3.77	3.65	3.23	Y
July 16	605	2.32	2.24	3.51	Y
July 16	611	21.70	21.70	0.00	Y
July 16	626	3.59	3.55	1.12	Y
July 16	640	6.10	5.97	2.15	Y
July 16	660	4.70	4.50	4.35	Y
July 16	665	15.10	15.40	1.97	Y
July 16	675	2.42	2.31	4.65	Y
July 16	697	3.32	3.51	5.56	Y
July 17	711	5.93	5.73	3.43	Y
July 17	726	4.67	4.70	0.64	Y
July 17	742	3.13	3.14	0.32	Y
July 17	813	12.30	12.30	0.00	Y
July 17	814	12.30	12.00	2.47	Y
July 17	832	11.80	11.90	0.84	Y
July 17	833	12.20	12.10	0.82	Y
July 18	858	15.50	15.60	0.64	Y
July 18	859	15.30	15.60	1.94	Y
July 18	870	19.10	14.30	28.7	IN
July 18	872	15.30	15.00	1.96	Y
July 18	884	12.40	12.80	3.17	Y
July 18	948	15.10	15.10	0.00	Y
July 18	949	14.80	14.80	0.00	Y
July 18	961	12.10	13.60	11.7	IN
July 18	962	14.00	14.20	1.42	Y
July 18	968	0.29	0.25	14.8	IN
July 18	980	13.70	13.10	4.48	Y
July 18	991	13.20	13.40	1.50	Y
July 18	989	10.80	9.65	11.2	IN
July 18	990	12.10	11.90	1.67	Y
July 18	996	0.22	0.22	0.00	Y
July 19	1006	0.30	0.25	18.2	IN
July 19	1012	13.90	13.90	0.00	Y
July 19	1013	13.90	12.00	14.7	IN
July 19	1020	0.28	0.24	15.4	IN
July 19	1026	14.10	13.70	2.88	Y
July 19	1027	14.10	14.10	0.00	Y
July 19	1039	0.28	0.23	19.6	IN
July 19	1052	0.24	0.24	0.00	Y
July 19	1067	0.27	0.24	11.8	IN
July 19	1072	19.10	8.13	80.6	IN
July 19	1088	0.28	0.24	15.4	IN
July 19	1117	1.88	0.24	155	IN
July 20	1156	14.10	14.20	0.71	Y
July 20	1157	15.00	14.80	1.34	Y
July 20	1168	4.54	4.31	5.20	Y

```

II      PRECISION DUPLICATES
SALINITY II Accept. Limits: 9.5
II-----
DATE OF ISAMPLE II ORG. I DUP. 1% REL. I WITHIN
ANALYSIS I NUMBER II RESULT I RESULT I ERROR I LIMITS
II-----
July 20 I 1136 II 3.08 I 2.92 I 5.33 I Y
July 20 I 1143 II 13.30 I 13.50 I 1.49 I Y
July 20 I 1144 II 13.60 I 14.10 I 3.61 I Y
July 20 I 1149 II 4.99 I 4.94 I 1.01 I Y
July 20 I 1286 II 12.50 I 12.50 I 0.00 I Y
July 20 I 1287 II 12.50 I 12.30 I 1.61 I Y
July 20 I 1305 II 13.20 I 13.30 I 0.75 I Y
July 20 I 1306 II 12.30 I 14.30 I 15.0 IN
July 20 I 1315 II <0.22 I <0.22 I NC I ---
July 21 I 1318 II 15.50 I 16.50 I 6.25 I Y
July 21 I 1319 II 16.20 I 16.20 I 0.00 I Y
July 21 I 1341 II <0.22 I <0.22 I NC I ---
July 21 I 1363 II <0.22 I <0.22 I NC I ---
July 22 I 1460 II 6.59 I 6.59 I 0.00 I Y
July 22 I 1461 II 6.64 I 6.62 I 0.30 I Y
July 22 I 1484 II 6.99 I 6.61 I 5.59 I Y
July 22 I 1485 II 6.70 I 6.02 I 10.7 IN
July 22 I 1570 II 2.99 I 3.00 I 0.33 I Y
July 22 I 1575 II 2.87 I 2.52 I 13.0 IN
July 23 I 1586 II 2.52 I 2.12 I 17.2 IN
July 23 I 1594 II 3.02 I 2.89 I 4.40 I Y
July 23 I 1595 II 3.55 I 3.09 I 13.9 IN
July 23 I 1599 II 2.65 I 2.60 I 1.90 I Y
July 23 I 1607 II 5.07 I 5.32 I 4.81 I Y
July 23 I 1608 II 6.78 I 6.66 I 1.79 I Y
July 23 I 1622 II 4.13 I 4.14 I 0.24 I Y
July 23 I 1623 II 4.25 I 4.58 I 7.47 I Y
July 23 I 1659 II 2.69 I 2.39 I 11.8 IN
July 23 I 1660 II 2.51 I 2.67 I 6.18 I Y
July 23 I 1664 II 1.92 I 1.97 I 2.57 I Y
July 23 I 1678 II 4.46 I 4.46 I 0.00 I Y
July 23 I 1679 II 4.61 I 4.50 I 2.41 I Y
July 24 I 1691 II 4.72 I 4.54 I 3.89 I Y
July 24 I 1692 II 4.58 I 5.12 I 11.1 IN
July 24 I 1696 II 1.85 I 1.84 I 0.54 I Y
July 24 I 1828 II <0.22 I <0.22 IN NC I ---
July 25 I 1969 II 8.64 I 9.36 I 8.00 I Y
July 25 I 1970 II 9.63 I 9.80 I 1.75 I Y
July 25 I 1982 II 10.10 I 11.50 I 13.0 IN
July 25 I 1983 II 11.60 I 11.60 I 0.00 I Y
July 26 I 2004 II 10.30 I 8.70 I 16.8 IN
July 26 I 2005 II 9.49 I 9.50 I 0.11 I Y
July 26 I 2027 II 8.45 I 8.47 I 0.24 I Y
July 26 I 2028 II 7.51 I 8.54 I 12.8 IN
July 23 I 1627 II 2.52 I 2.42 I 4.05 I Y
July 23 I 1635 II 3.35 I 3.60 I 6.71 I Y
July 23 I 1636 II 3.63 I 3.60 I 0.83 I Y
July 23 I 1653 II 9.57 I 9.41 I 1.69 I Y
Aug 24 I 76 II 0.13 I 0.13 I 0.00 I Y
Aug 25 I 132 II 1.14 I 1.16 I 1.74 I Y
Aug 25 I 147 II 3.35 I 3.38 I 0.89 I Y

```

PRECISION DUPLICATES
 SALINITY Accept. Limits: 9.5

DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS
Aug 25	167	6.20	6.10	1.63	Y
Aug 26	251	26.20	26.30	0.38	Y
Aug 26	252	26.40	26.40	0.00	Y
Aug 26	281	7.80	7.80	0.00	Y
Aug 26	282	8.60	8.40	2.35	Y
Aug 26	283	19.30	19.40	0.52	Y
Aug 26	284	18.30	18.30	0.00	Y
Aug 26	302	20.60	20.40	0.98	Y
Aug 26	303	21.50	21.30	0.93	Y
Aug 26	315	23.80	23.70	0.42	Y
Aug 26	335	27.40	27.60	0.73	Y
Aug 26	336	27.90	27.90	0.00	Y
Aug 26	352	20.80	20.80	0.00	Y
Aug 26	353	20.50	20.60	0.49	Y
Aug 26	365	18.60	18.70	0.54	Y
Aug 26	366	19.30	19.30	0.00	Y
Aug 26	382	25.20	25.20	0.00	Y
Aug 26	383	25.20	25.20	0.00	Y
Aug 27	394	0.48	0.48	0.00	Y
Aug 27	422	0.41	0.40	2.47	Y
Aug 27	436	0.47	0.48	2.11	Y
Aug 27	452	0.38	0.37	2.67	Y
Aug 27	475	0.43	0.43	0.00	Y
Aug 27	523	11.20	11.30	0.89	Y
Aug 27	524	11.30	11.30	0.00	Y
Aug 27	550	12.63	12.61	0.16	Y
Aug 27	551	13.60	13.60	0.00	Y
Aug 28	563	11.15	9.99	11.0	IN
Aug 29	585	8.33	9.20	9.93	IN
Aug 29	586	9.61	9.55	0.63	Y
Aug 28	602	12.26	12.20	0.49	Y
Aug 28	603	12.42	10.85	13.5	IN
Aug 28	621	11.73	13.97	17.4	IN
Aug 29	622	12.45	13.77	10.1	IN
Aug 28	629	12.13	10.31	16.2	IN
Aug 28	630	12.05	11.98	0.58	Y
Aug 28	646	0.70	0.65	7.41	Y
Aug 28	655	10.10	10.10	0.00	Y
Aug 28	659	0.50	0.53	5.83	Y
Aug 28	672	0.62	0.60	3.28	Y
Aug 28	694	0.57	0.58	1.74	Y
Aug 29	711	0.66	0.66	0.00	Y
Aug 29	731	0.70	0.68	2.90	Y
Aug 29	752	0.60	0.60	0.00	Y
Aug 29	765	0.60	0.60	0.00	Y
Aug 29	779	5.53	5.55	0.36	Y
Aug 29	784	5.95	5.93	0.00	Y
Aug 29	789	7.40	7.40	0.00	Y
11/08/88	10	0.87	0.87	0.00	Y
11/09/88	19	6.15	5.97	2.97	Y
11/09/88	61	5.83	6.17	5.67	Y

PRECISION DUPLICATES
 SALINITY || Accept. Limits: 9.5
 ||-----||

DATE OF SAMPLE || ORG. | DUP. 1% REL. | WITHIN
 ANALYSIS || NUMBER || RESULT | RESULT | ERROR | LIMITS
 ||-----||

11/09/88	62	6.11	6.05	0.99	Y
11/09/88	63	8.32	8.29	0.36	Y
11/09/88	64	6.66	6.62	0.60	Y
11/09/88	65	6.35	6.23	1.91	Y
11/09/88	66	5.17	5.03	2.75	Y
11/09/88	67	7.43	7.33	1.36	Y
11/09/88	68	5.62	5.26	6.62	Y
11/09/88	85	3.78	3.40	10.6	IN
11/09/88	89	8.43	8.39	0.48	Y
11/09/88	101	3.19	2.83	12.0	IN
11/11/88	122	14.90	13.50	9.86	IN
11/11/88	123	14.90	14.70	1.35	Y
11/11/88	124	13.60	13.60	0.00	Y
11/11/88	157	12.00	12.20	1.65	Y
11/11/88	158	12.90	11.50	11.5	IN
11/11/88	159	13.30	10.70	21.7	IN
11/12/88	234	11.40	13.40	16.1	IN
11/12/88	242	12.70	11.30	11.7	IN
11/12/88	243	11.90	11.30	5.17	Y
11/12/88	251	12.30	10.50	15.8	IN
11/12/88	252	11.40	10.80	5.41	Y
11/12/88	253	12.00	12.00	0.00	Y
11/12/88	273	12.20	11.40	6.78	Y
11/12/88	274	12.70	11.70	8.20	Y
11/12/88	280	11.90	10.10	16.4	IN
11/12/88	282	12.00	12.00	0.00	Y

Section 12

Quality Control Data

Hackensack River Study

Total Phosphate Analysis

DATE SWAYED	ISAPPLET NUMBER	PRECISION FACTORS			MATRIX STRIPS			CORE STRIPS			REFERENCE STANDARDS		
		QRG. RELT	UP. % RE- SULTS	RE- TURNS	QRG. RELT	UP. % RE- SULTS	RE- TURNS	QRG. RELT	UP. % RE- SULTS	RE- TURNS	QRG. RELT	UP. % RE- SULTS	RE- TURNS
4/12/88	13	0.46	0.67	37.2	0.10	0.85	0.50	132.0	0.10	0.50	102	1.80	99.0
4/12/88	43	0.10	0.10	NC	0.10	0.10	0.50	78.0	0.10	0.50	102	1.80	99.0
4/12/88	66	0.10	0.10	NC	0.10	0.10	0.50	90.0	0.10	0.50	102	1.80	99.0
4/12/88	71	0.10	0.10	NC	0.10	0.10	0.50	64.0	0.10	0.50	102	1.80	99.0
4/12/88	76	1.09	1.11	1.80	0.10	1.10	0.50	94.0	0.10	0.50	102	1.80	99.0
4/13/88	90	0.10	0.10	NC	0.10	0.10	0.50	132	0.10	0.50	96.0	1.80	98.0
4/13/88	112	0.15	0.10	NC	0.10	0.10	0.50	148	0.10	0.50	90.0	1.80	87.0
4/13/88	130	0.33	0.33	10.000	0.10	0.33	0.50	86.0	0.10	0.50	90.0	1.80	87.0
4/13/88	139	0.36	0.35	2.80	0.10	0.35	0.50	61.0	0.10	0.50	90.0	1.80	87.0
4/13/88	157	0.57	0.58	10.200	0.10	0.55	0.50	119	0.10	0.50	90.0	1.80	87.0
4/13/88	158	0.47	0.56	17.5	0.10	0.45	0.50	75.0	0.10	0.50	90.0	1.80	87.0
4/13/88	176	0.63	0.54	15.4	0.10	0.61	0.50	82.0	0.10	0.50	90.0	1.80	87.0
4/13/88	178	0.61	0.61	10.000	0.10	0.55	0.50	15.0	0.10	0.50	90.0	1.80	87.0
4/13/88	185	0.24	0.47	64.8	0.10	0.35	0.50	95.0	0.10	0.50	90.0	1.80	87.0
4/13/88	196	0.31	0.16	63.8	0.10	0.30	0.50	85.0	0.10	0.50	100	1.80	101
4/13/88	248	0.30	0.32	6.50	0.10	0.35	0.50	27.0	0.10	0.50	100	1.80	101
4/13/88	249	0.37	0.26	27.7	0.10	0.35	0.50	99.0	0.10	0.50	100	1.80	101
4/14/88	228	0.84	0.43	64.6	0.10	0.440	0.50	78.0	0.10	0.50	88.0	1.80	99.0
4/14/88	229	0.45	0.43	4.4	0.10	0.45	0.50	83.0	0.10	0.50	88.0	1.80	99.0
4/14/88	241	0.53	0.61	3.70	0.10	0.50	0.50	72.0	0.10	0.50	88.0	1.80	99.0
4/14/88	242	0.53	0.59	6.80	0.10	0.50	0.50	82.0	0.10	0.50	88.0	1.80	99.0
4/14/88	249	0.31	0.29	6.70	0.10	0.30	0.50	70.0	0.10	0.50	88.0	1.80	99.0
4/14/88	267	0.10	0.10	NC	0.10	0.10	0.50	78.0	0.10	0.50	88.0	1.80	99.0
4/14/88	290	0.10	0.10	NC	0.10	0.10	0.50	78.0	0.10	0.50	88.0	1.80	99.0
4/14/88	306	0.10	0.10	NC	0.10	0.10	0.50	78.0	0.10	0.50	88.0	1.80	99.0
4/14/88	319	0.10	0.10	NC	0.10	0.10	0.50	10.000	0.10	0.50	88.0	1.80	99.0
4/14/88	338	0.10	0.10	NC	0.10	0.10	0.50	78.0	0.10	0.50	88.0	1.80	99.0
4/15/88	364	0.10	0.10	NC	0.10	0.10	0.50	78.0	0.10	0.50	88.0	1.80	99.0
4/15/88	377	0.10	0.10	NC	0.10	0.10	0.50	85	0.10	0.50	100	1.80	99.0
4/15/88	396	0.10	0.10	NC	0.10	0.10	0.50	82.0	0.10	0.50	100	1.80	99.0
4/15/88	402	0.58	0.50	3.40	0.10	0.59	0.50	72.0	0.10	0.50	100	1.80	99.0
4/15/88	403	0.55	0.52	5.60	0.10	0.56	0.50	71.0	0.10	0.50	100	1.80	99.0
4/15/88	427	0.74	0.56	27.7	0.10	0.690	0.50	46.0	0.10	0.50	98.0	1.80	99.0
4/15/88	428	0.42	0.59	33.7	0.10	0.516	0.50	63.0	0.10	0.50	98.0	1.80	99.0
4/15/88	442	0.69	0.65	4.60	0.10	0.670	0.50	70.0	0.10	0.50	98.0	1.80	99.0
4/15/88	443	0.78	0.91	15.4	0.10	0.845	0.50	65.0	0.10	0.50	98.0	1.80	99.0
4/15/88	461	0.52	0.52	21.3	0.10	0.470	0.50	90.0	0.10	0.50	98.0	1.80	99.0
4/15/88	462	0.71	0.65	8.80	0.10	0.680	0.50	58.0	0.10	0.50	98.0	1.80	99.0
4/15/88	474	0.59	0.53	10.000	0.10	0.530	0.50	122	0.10	0.50	98.0	1.80	99.0
4/15/88	475	0.53	0.54	1.90	0.10	0.526	0.50	127	0.10	0.50	98.0	1.80	99.0
4/16/88	493	0.68	0.74	8.50	0.10	0.710	0.50	118	0.10	0.50	98.0	1.80	99.0
4/16/88	494	0.68	0.79	15.0	0.10	0.726	0.50	93.0	0.10	0.50	98.0	1.80	99.0
4/16/88	514	0.48	0.49	1.21	0.10	0.474	0.50	74.0	0.10	0.50	99.0	1.80	99.0
4/16/88	515	0.55	0.56	1.60	0.10	0.474	0.50	82.0	0.10	0.50	99.0	1.80	99.0

DATE OFFERED	ISSUED NUMBER	PRECISION DIFFICULTIES			MATRIX SERIES			KAY SERIES			REFERENCE SERIES		
		Accept. Limits: 20.3	LOG. RESULT	PERCENTAGE OF TOTAL	Accept. Limits: 40 - 123	WITHIN LIMITS	METHOD REF.	SPRUE FADED	% REL.	WITHIN LIMITS	Accept. Limits: 71 - 123	WITHIN LIMITS	% REL.
4/15/88	537	0.65	0.71	2.90	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/16/88	538	0.66	0.71	2.90	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/16/88	539	0.61	0.54	3.50	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/16/88	543	0.10	0.10	11.0	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/16/88	558	0.10	0.10	11.0	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/16/88	559	0.10	0.10	11.0	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/16/88	614	0.10	0.10	11.0	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/16/88	619	0.10	0.10	11.0	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/17/88	639	0.10	0.10	11.0	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/17/88	651	0.10	0.10	11.0	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/17/88	656	0.75	0.75	10.00	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/17/88	657	0.77	0.63	7.50	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/17/88	690	1.01	1.02	1.00	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/17/88	691	0.99	0.93	6.30	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/17/88	710	1.18	1.22	3.30	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/17/88	710	1.18	1.22	3.30	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/17/88	711	1.26	1.26	10.00	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/17/88	721	1.57	1.41	10.7	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/17/88	722	1.43	1.35	5.80	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/17/88	742	1.22	1.08	12.2	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/17/88	743	1.24	1.26	1.60	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/17/88	755	1.38	0.92	40.0	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/17/88	756	0.86	0.87	1.20	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/18/88	774	1.03	0.90	13.5	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/18/88	775	1.02	0.97	5.00	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/18/88	787	1.46	1.50	2.70	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/18/88	788	1.39	1.41	1.50	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/18/88	806	1.41	1.35	4.40	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/18/88	807	1.41	1.39	1.40	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/18/88	813	0.82	0.84	2.40	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/18/88	827	0.69	0.61	12.3	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/18/88	843	1.07	1.31	2.00	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/18/88	892	0.62	0.64	3.20	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/18/88	906	0.64	0.67	4.60	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/19/88	915	0.93	0.84	10.2	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/19/88	940	0.54	0.52	3.70	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/19/88	952	0.50	0.48	2.00	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/19/88	975	1.24	1.39	11.4	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/19/88	980	1.43	1.18	19.2	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/19/88	998	1.24	1.26	1.60	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/19/88	999	1.29	1.27	10.00	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/19/88	1017	1.03	1.01	1.96	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/19/88	1018	0.96	1.16	18.8	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/19/88	1037	1.31	1.23	6.30	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/19/88	1038	1.14	1.23	7.60	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/19/88	1050	1.62	1.54	5.10	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/19/88	1061	1.56	1.42	9.40	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/20/88	1069	1.32	1.45	9.40	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/20/88	1070	1.42	1.38	2.90	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80
4/20/88	1080	1.19	1.38	14.8	Y	Y	0.10	0.50	99.0	Y	Y	Y	1.80

[illegible]

TOTAL PROBABILITY		PRECISION LIMITS				MATRIX STIKES				PLANK STIKES				REFERENCE STANDARDS			
EVENT: 7/83	DATE OF IS-91/91	DEG.	D.P.	% REL.	WITHIN	AVG.	IS/RE	%	WITHIN	MEHDO	GRADE	%	WITHIN	REF.	NON	%	WITHIN
		RESULT	RESULT	RESULT	LIMITS	RESULT	RESULT	RESULT	LIMITS	RE.	ADDED	REC.	LIMITS	ID.	VALUE	REC.	LIMITS
8/4/83	438	0.52	0.52	10.30							0.100	0.50	112 IN	Ref Std	1.80		95.8 Y
8/4/83	439	0.76	0.76	2.45							0.100	0.50	111 IN	Ref Std	1.80		97.2 Y
8/4/83	440	0.93	0.96	1.71										Ref Std	1.80		90.3 Y
8/4/83	441	0.93	0.96	1.71										Ref Std	1.80		95.5 Y
8/4/83	442	0.93	0.96	1.71										Ref Std	1.80		97.0 Y
8/4/83	443	0.71	0.71	0.00							0.100	0.50	145 IN	Ref Std	1.80		92.6 Y
8/4/83	444	0.71	0.71	0.00							0.100	0.50	137 IN	Ref Std	1.80		99.5 Y
8/4/83	445	0.71	0.71	0.00							0.100	0.50	140 IN	Ref Std	1.80		97.6 Y
8/4/83	446	0.71	0.71	0.00							0.100	0.50	139 IN	Ref Std	1.80		97.7 Y
8/4/83	447	0.71	0.71	0.00							0.100	0.50	141 IN	Ref Std	1.80		98.4 Y
8/4/83	448	0.71	0.71	0.00							0.100	0.50	139 IN	Ref Std	1.80		98.9 Y
8/4/83	449	0.71	0.71	0.00							0.100	0.50	141 IN	Ref Std	1.80		97.9 Y
8/4/83	450	0.56	0.55	2.15							0.100	0.50	139 IN	Ref Std	1.80		96.9 Y
8/4/83	451	1.27	1.29	1.66							0.100	0.50	139 IN	Ref Std	1.80		95.2 Y
8/4/83	452	0.83	0.79	4.95							0.100	0.50	145 IN	Ref Std	1.80		103 Y
8/4/83	453	0.84	0.75	11.4							0.100	0.50	142 Y	Ref Std	1.80		106 Y
8/4/83	454	1.03	0.98	4.28							0.100	0.50	98.8 Y	Ref Std	1.80		87.7 Y
8/4/83	455	0.92	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		98.8 Y
8/4/83	456	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		101 Y
8/4/83	457	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		99.4 Y
8/4/83	458	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		101 Y
8/4/83	459	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		99.4 Y
8/4/83	460	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		101 Y
8/4/83	461	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		99.4 Y
8/4/83	462	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		101 Y
8/4/83	463	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		99.4 Y
8/4/83	464	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		101 Y
8/4/83	465	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		99.4 Y
8/4/83	466	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		101 Y
8/4/83	467	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		99.4 Y
8/4/83	468	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		101 Y
8/4/83	469	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		99.4 Y
8/4/83	470	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		101 Y
8/4/83	471	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		99.4 Y
8/4/83	472	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		101 Y
8/4/83	473	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		99.4 Y
8/4/83	474	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		101 Y
8/4/83	475	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		99.4 Y
8/4/83	476	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		101 Y
8/4/83	477	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		99.4 Y
8/4/83	478	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		101 Y
8/4/83	479	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		99.4 Y
8/4/83	480	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		101 Y
8/4/83	481	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		99.4 Y
8/4/83	482	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		101 Y
8/4/83	483	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		99.4 Y
8/4/83	484	0.93	0.85	4.12							0.100	0.50	97.2 Y	Ref Std	1.80		101 Y

[illegible]

IONA UNIVERSITY		PRECISION LIMITS		MATRIX GRILES		MARK GRILES		REFERENCE STANDARDS	
PREF: 7/88		(Accept. Limits: 20.0)		(Accept. Limits: 50 - 123)		(Accept. Limits: 72 - 104)		(Accept. Limits: 71 - 123)	
DATE OF SAMPLE	ORG.	IMP. % REL. WITHIN	AVG. ISFIVE	ISFIVE	% WITHIN	METHOD	SCHE	REC. ID.	% WITHIN
ANALYSIS NUMBER	RESULT	RESULT FOR LIMITS	RESULT FOR LIMITS	RESULT FOR LIMITS	RESULT FOR LIMITS	TO	AVG	VALUE	REC. ID.
8/19/83									
8/19/83									
8/20/83									
8/20/83									
10/5/88	1551	0.37	0.23	40.0 IN			0.101	0.50	92.0 Y
10/5/88	1570	0.58	0.56	10.69 Y			0.101	0.50	87.8 Y
10/5/88	1575	0.58	0.57	1.21 Y			0.101	0.50	1.4 Y
10/5/88	1577	0.35	0.42	16.5 Y			0.101	0.50	70.2 Y
10/5/88	1586	0.45	0.48	7.07 Y			0.101	0.50	95.2 Y
10/5/88	1588	0.94	0.91	3.25 Y			0.101	0.50	95.8 Y
10/5/88	1593	0.93	0.87	3.74 Y			0.101	0.50	76.0 Y
10/5/88	1594	0.55	0.55	1.08 Y			0.101	0.50	130.5 Y
10/5/88	1595	0.58	0.70	17.6 Y			0.101	0.50	122.2 Y
10/5/88	1597	0.58	0.58	1.01 Y			0.101	0.50	70.2 IN
10/5/88	1607	1.20	0.95	3.77 Y			0.101	0.50	72.5 Y
10/5/88	1608	0.81	1.12	7.14 Y			0.101	0.50	87.0 Y
10/5/88	1622	0.81	0.84	2.79 Y			0.101	0.50	92.0 Y
10/5/88	1623	0.83	0.84	1.19 Y			0.101	0.50	85.5 Y
10/5/88	1627	0.55	0.55	10.546 Y			0.101	0.50	83.4 Y
10/5/88	1635	0.64	0.67	5.03 Y					
10/5/88	1636	0.78	0.34	77.1 IN					
10/5/88	1640	0.46	0.45	10.220 Y					
10/5/88	1653	0.94	0.97	3.15 Y					
10/5/88	1660	0.60	0.62	3.91 Y					
10/5/88	1664	0.30	0.35	19.7 Y					
8/22/88	1570	11.70	114.40	20.7 IN					
8/22/88	1575	10.30	113.40	26.2 IN					
8/22/88	1586	15.00	114.40	4.08 Y					
8/22/88	1594	9.78	116.70	8.05 Y					
8/22/88	1595	6.90	116.70	83.1 IN					
8/22/88	1597	8.84	6.44	28.1 IN					
8/22/88	1607	10.00	110.80	7.69 Y					
8/22/88	1608	13.10	112.50	4.69 Y					
8/22/88	1622	9.35	113.30	34.9 IN					
8/22/88	1623	10.30	110.90	5.65 Y					
8/22/88	1627	10.30	9.80	11.3 Y					
8/22/88	1635	8.39	8.67	3.28 Y					
8/22/88	1636	7.35	8.55	12.4 Y					
8/22/88	1640	8.31	8.18	1.58 Y					
8/22/88	1651	11.80	111.60	1.71 Y					
8/22/88	1653	10.40	9.13	14.9 Y					
8/22/88	1657	11.30	10.40	8.29 Y					
8/22/88	1660	12.90	9.37	31.7 IN					
8/22/88	1664	9.02	10.10	N C					
8/23/88									
8/23/88									
8/23/88	1674	1.18	0.97	19.5 Y					
8/23/88	1678	1.32	1.25	5.45 Y					
8/23/88	1683	0.21	0.27	25.0 IN					
8/23/88	1691	1.07	0.99	7.77 Y					
8/23/88	1692	0.71	0.88	14.6 Y					
8/23/88	1695	0.62	0.12	1.35 IN					

100% CREDITABLE		RECESSION DATE LIMITS		INDEX VALUES		LCR VALUES		RETENTION STANDARDS		
DATE OF ISSUANCE	DATE OF CANCELLATION	RECESSION DATE LIMITS	INDEX VALUES	LCR VALUES	RETENTION STANDARDS	DATE OF ISSUANCE	DATE OF CANCELLATION	RECESSION DATE LIMITS	INDEX VALUES	
DATE OF ISSUANCE	DATE OF CANCELLATION	RECESSION DATE LIMITS	INDEX VALUES	LCR VALUES	RETENTION STANDARDS	DATE OF ISSUANCE	DATE OF CANCELLATION	RECESSION DATE LIMITS	INDEX VALUES	
8/23/83	1743	0.45	0.17	92.3 IN		8/23/83	1743	0.45	0.17	92.3 IN
8/23/83	1804	0.10	0.10	N.C.		8/23/83	1804	0.10	0.10	N.C.
8/24/83	1804	0.10	0.10	N.C.		8/24/83	1804	0.10	0.10	N.C.
8/24/83	1876	0.10	0.10	N.C.		8/24/83	1876	0.10	0.10	N.C.
8/24/83	1891	0.10	0.10	N.C.		8/24/83	1891	0.10	0.10	N.C.
8/24/83	1892	0.10	0.10	N.C.		8/24/83	1892	0.10	0.10	N.C.
8/24/83	1893	0.10	0.10	N.C.		8/24/83	1893	0.10	0.10	N.C.
8/24/83	1894	0.10	0.10	N.C.		8/24/83	1894	0.10	0.10	N.C.
8/24/83	1895	0.10	0.10	N.C.		8/24/83	1895	0.10	0.10	N.C.
8/24/83	1900	0.10	0.10	N.C.		8/24/83	1900	0.10	0.10	N.C.
8/24/83	1902	0.10	0.10	N.C.		8/24/83	1902	0.10	0.10	N.C.
8/24/83	1909	0.10	0.10	N.C.		8/24/83	1909	0.10	0.10	N.C.
8/24/83	1910	0.10	0.10	N.C.		8/24/83	1910	0.10	0.10	N.C.
8/24/83	1911	0.10	0.10	N.C.		8/24/83	1911	0.10	0.10	N.C.
8/24/83	1912	0.10	0.10	N.C.		8/24/83	1912	0.10	0.10	N.C.
8/24/83	1913	0.10	0.10	N.C.		8/24/83	1913	0.10	0.10	N.C.
8/24/83	1914	0.10	0.10	N.C.		8/24/83	1914	0.10	0.10	N.C.
8/24/83	1915	0.10	0.10	N.C.		8/24/83	1915	0.10	0.10	N.C.
8/24/83	1916	0.10	0.10	N.C.		8/24/83	1916	0.10	0.10	N.C.
8/24/83	1917	0.10	0.10	N.C.		8/24/83	1917	0.10	0.10	N.C.
8/24/83	1918	0.10	0.10	N.C.		8/24/83	1918	0.10	0.10	N.C.
8/24/83	1919	0.10	0.10	N.C.		8/24/83	1919	0.10	0.10	N.C.
8/24/83	1920	0.10	0.10	N.C.		8/24/83	1920	0.10	0.10	N.C.
8/24/83	1921	0.10	0.10	N.C.		8/24/83	1921	0.10	0.10	N.C.
8/24/83	1922	0.10	0.10	N.C.		8/24/83	1922	0.10	0.10	N.C.
8/24/83	1923	0.10	0.10	N.C.		8/24/83	1923	0.10	0.10	N.C.
8/24/83	1924	0.10	0.10	N.C.		8/24/83	1924	0.10	0.10	N.C.
8/24/83	1925	0.10	0.10	N.C.		8/24/83	1925	0.10	0.10	N.C.
8/24/83	1926	0.10	0.10	N.C.		8/24/83	1926	0.10	0.10	N.C.
8/24/83	1927	0.10	0.10	N.C.		8/24/83	1927	0.10	0.10	N.C.
8/24/83	1928	0.10	0.10	N.C.		8/24/83	1928	0.10	0.10	N.C.
8/24/83	1929	0.10	0.10	N.C.		8/24/83	1929	0.10	0.10	N.C.
8/24/83	1930	0.10	0.10	N.C.		8/24/83	1930	0.10	0.10	N.C.

CUSTOMER: Clinton Begert

JOH#: Hackensack River Study
SAMPLING EVENT: AUGUST 1988

PARAMETER: TOTAL PHOSPHATE
UNITS: mg/l
REPORT TYPE: JOB SPECIFIC (C)

REPORT TYPE: JOB SPECIFIC DC

[illegible]

UNIT PREFIX	PRECISION NOTICES Accept. Limits: 20-3	MATRIX SPILLES Accept. Limits: 60 - 129						CORE SPILLS Accept. Limits: 72 - 100							EDITION SUMMARIES Accept. Limits: 71 - 129		
		DATE OF SAMPLE (ANALYSIS)	QSG. FELT	DU. % RESID.	% REL. NUMBER	WITHIN LIMITS	Avg.	%	SPRUE IADDED	METHO BLK.	SPRUE % ADDED	WITHIN REC. LIMITS	REF. ID.	NON VALUE	% REC.	LIMITS	
							RESULT	IADDED									FEC.
5/17/88	374	0.12	0.09	25.2 IN		0.10	0.50	99.8 Y	< 0.101	0.50	96.8 Y	Ref Std	1.80	1	96.2 Y		
5/17/88	365	0.60	0.59	1.84 Y		0.60	0.50	82.1 Y	< 0.101	0.50	87.4 Y	Ref Std	1.80	1	93.6 Y		
5/17/88	366	0.57	0.57	0.00 Y		0.77	0.50	114 Y	< 0.101	0.50	104 Y	Ref Std	1.80	1	100 Y		
5/19/88	436	0.70	0.70	3.13 Y		0.77	0.50	67.5 Y	< 0.101	0.50	96.0 Y	Ref Std	1.80	1	99.7 Y		
5/19/88	436	0.77	0.77	10.648 Y		0.77	0.50	81.5 Y	< 0.101	0.50	105 IN	Ref Std	1.80	1	102 Y		
5/19/88	432	0.65	0.56	42.3 IN		0.73	0.50		< 0.101	0.50	107 IN	Ref Std	1.80	1	103 Y		
5/19/88									< 0.101	0.50	119 IN	Ref Std	1.80	1	105 Y		
5/19/88									< 0.101	0.50	103 Y	Ref Std	1.80	1	>123 IN		
5/19/88									< 0.101	0.50	105 IN	Ref Std	1.80	1	>123 IN		
5/19/88									< 0.101	0.50	91.0 Y	Ref Std	1.80	1	>123 IN		
5/19/88									< 0.101	0.50	103 Y	Ref Std	1.80	1	95.3 Y		
5/26/88	471	0.56	1.00	56.0 IN		0.78	0.50	27.2 IN	< 0.101	0.50	93.6 Y	Ref Std	1.80	1	98.1 Y		
5/26/88	475	0.10	0.14	33.7 IN		0.81	0.50	1.68 Y	< 0.101	0.50	97.2 Y	Ref Std	1.80	1	97.6 Y		
5/26/88	524	0.91	0.72	23.5 IN		0.73	0.50	69.0 Y	< 0.101	0.50	90.8 Y	Ref Std	1.80	1	94.5 Y		
5/26/88	524	0.77	0.69	11.0 Y		1.50	0.50	72.2 Y	< 0.101	0.50	96.0 Y	Ref Std	1.80	1	96.6 Y		
5/26/88	526	1.50	1.49	10.734 Y		1.44	0.50	94.4 Y	< 0.101	0.50	96.0 Y	Ref Std	1.80	1	94.4 Y		
5/26/88	551	1.43	1.44	10.139 Y		1.24	0.50	59.4 Y	< 0.101	0.50	93.4 Y	Ref Std	1.80	1	92.6 Y		
5/26/88	563	1.33	1.40	5.21 Y		1.36	0.50	39.5 IN	< 0.101	0.50	97.8 Y	Ref Std	1.80	1	92.8 Y		
5/26/88	564	0.86	0.94	6.86 Y		1.38	0.50	66.2 Y	< 0.101	0.50	102 Y	Ref Std	1.80	1	93.8 Y		
5/26/88	565	1.35	1.40	3.64 Y		1.37	0.50	112 Y	< 0.101	0.50	100 Y	Ref Std	1.80	1	92.4 Y		
5/26/88	603	1.27	1.51	17.8 Y		1.44	0.50	93.6 Y	< 0.101	0.50	97.0 Y	Ref Std	1.80	1	92.8 Y		
5/26/88	621	1.00	1.03	8.08 Y		1.07	0.50	61.9 Y	< 0.101	0.50	98.6 Y	Ref Std	1.80	1	93.3 Y		
5/26/88	621	1.08	1.09	0.829 Y		0.97	0.50	62.0 Y	< 0.101	0.50	104 IN	Ref Std	1.80	1	92.1 Y		
5/26/88	627	0.98	0.95	2.90 Y		0.95	0.50	77.7 Y	< 0.101	0.50	101 Y	Ref Std	1.80	1	100 Y		
5/26/88	631	1.07	0.82	*26.3 IN					< 0.101	0.50	101 Y	Ref Std	1.80	1	97.3 Y		
5/26/88									< 0.101	0.50	101 Y	Ref Std	1.80	1	102 Y		
5/26/88									< 0.101	0.50	101 Y	Ref Std	1.80				

[illegible]

SECRETARY, JOE SPECIFIC OF

DISCOVER: Clinton Ecgart

JOE#: Hackensack River Study
SAMPLING EVENT: OCTOBER 1988

PARAMETER: UNITS: mg/l

REPORT TYPE: JOB SPECIFIC OF

SAMPLING EVENT: 01 OCTOBER 1988

INSTRUMENT: mg.

01 OCTOBER: Clinton Boggs

PRECISION DILUTANTS										MATRIX SPIKES										BLANK SPIKES										REFERENCE STANDARDS											
Accept. Limits: 20.3										Accept. Limits: 60 - 123										Accept. Limits: 72 - 104										Accept. Limits: 71 - 123											
DATE OF ANALYSIS	Q6.	DUP.	% REL. INTRIN	ANAL.	SPIKE	%	INTRIN	REC.	LIMITS	ANAL.	SPIKE	%	INTRIN	REC.	LIMITS	ANAL.	SPIKE	%	INTRIN	REC.	LIMITS	ANAL.	SPIKE	%	INTRIN	REC.	LIMITS	ANAL.	SPIKE	%	INTRIN	REC.	LIMITS	ANAL.	SPIKE	%	INTRIN	REC.	LIMITS		
10/27/88	1	3.39	3.36	10.947	Y	3.39	2.50	0.88	IN	3.39	2.50	0.88	IN	3.39	2.50	0.88	IN	3.39	2.50	0.88	IN	3.39	2.50	0.88	IN	3.39	2.50	0.88	IN	3.39	2.50	0.88	IN	3.39	2.50	0.88	IN	3.39	2.50	0.88	IN
10/27/88	11	1.34	1.39	3.44	Y	1.37	2.50	1.25	IN	1.37	2.50	1.25	IN	1.37	2.50	1.25	IN	1.37	2.50	1.25	IN	1.37	2.50	1.25	IN	1.37	2.50	1.25	IN	1.37	2.50	1.25	IN	1.37	2.50	1.25	IN	1.37	2.50	1.25	IN
10/27/88	11	3.33	3.65	10.545	Y	3.34	2.50	1.42	IN	3.34	2.50	1.42	IN	3.34	2.50	1.42	IN	3.34	2.50	1.42	IN	3.34	2.50	1.42	IN	3.34	2.50	1.42	IN	3.34	2.50	1.42	IN	3.34	2.50	1.42	IN	3.34	2.50	1.42	IN
10/27/88	21	2.73	2.72	10.367	Y	2.73	2.50	36.3	IN	2.73	2.50	36.3	IN	2.73	2.50	36.3	IN	2.73	2.50	36.3	IN	2.73	2.50	36.3	IN	2.73	2.50	36.3	IN	2.73	2.50	36.3	IN	2.73	2.50	36.3	IN	2.73	2.50	36.3	IN
10/27/88	31	5.01	5.02	10.140	Y	5.02	2.50	77.4	Y	5.02	2.50	77.4	Y	5.02	2.50	77.4	Y	5.02	2.50	77.4	Y	5.02	2.50	77.4	Y	5.02	2.50	77.4	Y	5.02	2.50	77.4	Y	5.02	2.50	77.4	Y	5.02	2.50	77.4	Y
10/27/88	41	1.96	1.90	3.53	Y	1.93	2.50	74.8	Y	1.93	2.50	74.8	Y	1.93	2.50	74.8	Y	1.93	2.50	74.8	Y	1.93	2.50	74.8	Y	1.93	2.50	74.8	Y	1.93	2.50	74.8	Y	1.93	2.50	74.8	Y	1.93	2.50	74.8	Y
10/27/88	51	3.61	3.64	10.829	Y	3.62	2.50	82.9	Y	3.62	2.50	82.9	Y	3.62	2.50	82.9	Y	3.62	2.50	82.9	Y	3.62	2.50	82.9	Y	3.62	2.50	82.9	Y	3.62	2.50	82.9	Y	3.62	2.50	82.9	Y	3.62	2.50	82.9	Y
10/27/88	61	3.63	3.64	10.137	Y	3.64	2.50	53.3	IN	3.64	2.50	53.3	IN	3.64	2.50	53.3	IN	3.64	2.50	53.3	IN	3.64	2.50	53.3	IN	3.64	2.50	53.3	IN	3.64	2.50	53.3	IN	3.64	2.50	53.3	IN	3.64	2.50	53.3	IN
10/27/88	71	8.64	8.68	10.442	Y	8.64	2.50	59.8	Y	8.64	2.50	59.8	Y	8.64	2.50	59.8	Y	8.64	2.50	59.8	Y	8.64	2.50	59.8	Y	8.64	2.50	59.8	Y	8.64	2.50	59.8	Y	8.64	2.50	59.8	Y	8.64	2.50	59.8	Y
10/27/88	81	2.00	1.91	4.41	Y	1.95	2.50	91.0	Y	1.95	2.50	91.0	Y	1.95	2.50	91.0	Y	1.95	2.50	91.0	Y	1.95	2.50	91.0	Y	1.95	2.50	91.0	Y	1.95	2.50	91.0	Y	1.95	2.50	91.0	Y	1.95	2.50	91.0	Y
10/27/88	91																																								
10/27/88																																									
10/27/88																																									
10/27/88																																									
10/27/88																																									
10/27/88																																									
10/27/88																																									
10/27/88																																									
10/27/88																																									
10/27/88																																									
10/27/88																																									
10/27/88																																									
10/27/88																																									
10/27/88																																									
10/27/88																																									
10/27/88																																									
10/27/88																									</																

COLLISION TABLES						MATRIX SPINES						BLK. SPINES						REFERENCE STATEMENTS					
EVENT: 10/83		Accept. Limits: 20.0		INACCEPT. LIMITS: 60 - 123		WITHIN LIMITS		ADDED REC.		SPINE %		WITHIN LIMITS		ADDED REC.		SPINE %		WITHIN LIMITS		ADDED REC.		SPINE %	
DATE OF ANALYSIS	NUM. OF SAMPLES	DWG. RESULT	D.P. RESULT	% REL. RESULT	WITHIN LIMITS	ADG. RESULT	SPINE ADDED	% WITHIN	WITHIN LIMITS	METHOD BLK.	SPINE ADDED	% WITHIN	WITHIN LIMITS	REF. ID.	NON-VALUE	% WITHIN	WITHIN LIMITS	REF. ID.	NON-VALUE	% WITHIN	WITHIN LIMITS		
11/9/88	121	5.39	5.14	3.63	Y	5.24	5.00	107	Y	< 0.10	0.50	93.2	Y	Ref Std	1.80	96.6	Y	Ref Std	1.80	96.6	Y		
11/8/88	151	4.71	4.70	10.127	Y	4.71	2.50	91.3	Y	< 0.10	0.50	91.4	Y	Ref Std	1.80	96.3	Y	Ref Std	1.80	96.3	Y		
11/11/88	181	3.52	3.54	10.567	Y	3.53	2.50	101	Y	< 0.10	0.50	96.8	Y	Ref Std	1.80	96.4	Y	Ref Std	1.80	96.4	Y		
11/11/88										< 0.10	0.50	90.0	Y	Ref Std	1.80	96.3	Y	Ref Std	1.80	96.3	Y		
11/11/88										< 0.10	0.50	95.4	Y	Ref Std	1.80	96.2	Y	Ref Std	1.80	96.2	Y		
11/11/88										< 0.10	0.50	93.6	Y	Ref Std	1.80	96.2	Y	Ref Std	1.80	96.2	Y		

SIC LABORATORY/ QUALITY CONTROL REPORT

REPORT TYPE: JOB SPECIFIC QC

CUSTOMER: Clinton Bogart

JOB#: Hackensack River Study
SAMPLING EVENT: NOVEMBER 1988

PARAMETER: TOTAL PHOSPHORUS
UNITS: mg/l

PRECISION DUPLICATES										MATRIX SPIRES				BLANK SPIRES				REFERENCE STANDARDS			
Accept. Limits: 20.3										Accept. Limits: 60 - 123				Accept. Limits: 72 - 104				Accept. Limits: 71 - 123			
DATE OF ANALYSIS	REP.	D.F.	1X REL. RESULT	1X REL. RESULT	WITHIN LIMITS	AVG.	ISPIRE	%	WITHIN LIMITS	NETED	SPIRE	%	WITHIN LIMITS	REF.	KNOWN	%	WITHIN LIMITS				
12/8/88	122	0.21	0.23	7.65	Y	0.22	0.50	72.9	Y	0.101	0.50	76.4	Y	1.80	94.8	Y	Y				
12/8/88	123	0.77	0.87	111.84	Y	0.82	0.50	71.9	Y	0.101	0.50	84.4	Y	1.80	94.8	Y	Y				
12/8/88	124	0.40	0.40	0.25	Y	0.40	0.50	69.9	Y	0.101	0.50	79.6	Y	1.80	94.8	Y	Y				
12/8/88	125	0.28	0.29	19.51	Y	0.31	0.50	78.6	Y	0.101	0.50	79.4	Y	1.80	94.8	Y	Y				
12/8/88	126	0.23	0.24	23.87	Y	0.26	0.50	61.7	Y	0.101	0.50	77.0	Y	1.80	94.8	Y	Y				
12/8/88	127	1.34	1.37	2.13	Y	1.36	0.50	51.5	Y	0.101	0.50	86.0	Y	1.80	94.8	Y	Y				
12/8/88	128	0.45	0.57	23.27	Y	0.51	0.50	60.0	Y	0.101	0.50	83.2	Y	1.80	94.8	Y	Y				
12/8/88	129	0.19	0.24	124.48	Y	0.22	0.50	63.9	Y	0.101	0.50	81.0	Y	1.80	94.8	Y	Y				
12/8/88	130	1.36	1.49	8.93	Y	1.42	0.50	N C	Y	0.101	0.50	83.0	Y	1.80	94.8	Y	Y				
12/8/88	131	0.23	0.23	0.00	Y	0.23	0.50	52.4	Y	0.101	0.50	83.6	Y	1.80	94.8	Y	Y				
12/8/88	132	1.85	107.81	N C	Y	0.92	0.50	N C	Y	0.101	0.50	81.2	Y	1.80	94.8	Y	Y				
12/8/88	133	0.16	0.23	136.27	Y	0.19	0.50	57.4	Y	0.101	0.50	85.8	Y	1.80	94.8	Y	Y				
12/8/88	134	0.10	0.13	N C	Y	0.07	0.50	59.8	Y	0.101	0.50	83.2	Y	1.80	94.8	Y	Y				
12/8/88	135	0.10	0.18	155.71	Y	0.14	0.50	38.8	Y	0.101	0.50	81.2	Y	1.80	94.8	Y	Y				
12/8/88	136	0.47	0.37	124.70	Y	0.42	0.50	40.6	Y	0.101	0.50	85.8	Y	1.80	94.8	Y	Y				
12/8/88	137	0.73	0.72	1.51	Y	0.73	0.50	65.7	Y	0.101	0.50	83.2	Y	1.80	94.8	Y	Y				
12/8/88	138													1.80	94.8	Y	Y				
12/8/88	139													1.80	94.8	Y	Y				
12/8/88	140													1.80	94.8	Y	Y				
12/8/88	141													1.80	94.8	Y	Y				
12/8/88	142	0.22	0.27	18.7	Y	0.25	0.50	72.2	Y	0.101	0.50	93.8	Y	1.80	100	Y	Y				
12/4/88	122	0.25	0.25	8.02	Y	0.25	0.50	73.9	Y	0.101	0.50	93.2	Y	1.80	98.3	Y	Y				
12/4/88	123	0.28	0.30	8.22	Y	0.29	0.50	70.4	Y	0.101	0.50	95.4	Y	1.80	98.3	Y	Y				
12/4/88	124	0.12	0.17	34.5	Y	0.15	0.50	63.8	Y	0.101	0.50	84.0	Y	1.80	97.9	Y	Y				
12/4/88	157	0.22	0.25	14.1	Y	0.23	0.50	59.7	Y	0.101	0.50	89.6	Y	1.80	97.1	Y	Y				
12/4/88	158	0.22	0.12	57.6	Y	0.17	0.50	26.7	Y					1.80	98.0	Y	Y				
12/4/88	159													1.80	97.1	Y	Y				
12/4/88	160													1.80	94.8	Y	Y				
12/4/88	161													1.80	95.2	Y	Y				
12/10/88	158	0.10	0.10	N C		0.10	0.50	44.6	Y	0.101	0.50	82.4	Y	1.80	94.8	Y	Y				
12/10/88	159	0.10	0.10	N C		0.10	0.50	0.0	Y	0.101	0.50	77.6	Y	1.80	94.8	Y	Y				
12/10/88	167	0.10	0.12	N C		0.06	0.50	65.0	Y	0.101	0.50	0.00	Y	1.80	94.0	Y	Y				
12/10/88	168	0.10	0.10	N C		0.10	0.50	69.4	Y	0.101	0.50	77.2	Y	1.80	94.0	Y	Y				
12/10/88	205	0.10	0.16	N C		0.08	0.50	15.5	Y	0.101	0.50	83.2	Y	1.80	95.4	Y	Y				
12/10/88	206	0.10	0.10	N C		0.10	0.50	51.4	Y	0.101	0.50	215	Y	1.80	90.4	Y	Y				
12/10/88	234	0.10	0.10	N C		0.10	0.50	68.4	Y	0.101	0.50	81.8	Y	1.80	93.2	Y	Y				
12/10/88	239	0.10	0.10	N C		0.10	0.50	54.2	Y	0.101	0.50	78.6	Y	1.80	94.9	Y	Y				
12/10/88	240	0.10	0.10	N C		0.10	0.50	66.0	Y	0.101	0.50	78.6	Y	1.80	90.7	Y	Y				
12/10/88	241	0.10	0.10	N C		0.10	0.50	78.0	Y	0.101	0.50	149	Y	1.80	91.9	Y	Y				
12/10/88	242	0.15	0.16	2.58	Y	0.16	0.50	31.0	Y	0.101	0.50	79.0	Y	1.80	92.3	Y	Y				
12/10/88	243	0.15	0.14	3.44	Y	0.15	0.50	44.9	Y	0.101	0.50	73.6	Y	1.80	95.4	Y	Y				
12/10/88	251	0.12	0.12	5.03	Y	0.12	0.50	61.8	Y	0.101	0.50	74.2	Y	1.80	93.4	Y	Y				
12/10/88	252	0.12	0.12	N C		0.12	0.50	44.0	Y	0.101	0.50	113	Y	1.80	90.8	Y	Y				
12/10/88	253	0.10	0.12	N C		0.06	0.50	44.0	Y	0.101	0.50	113	Y	1.80	90.8	Y	Y				

[illegible]

Section 13

Quality Control Data

Hackensack River Study

Total Suspended Solids

----- GTC LABORATORY QUALITY CONTROL REPORT -----

CUSTOMER: Clinton Bogart JOB#: Hackensack River Study
 PARAMETER: TOTAL SUS. SOLIDS SAMPLING EVENT: Apr,Jul,Aug,Oct,Nov
 UNITS: mg/l

PRECISION DUPLICATES					REFERENCE STANDARDS				
TTL SUS. SOLIDS					Accept. Limits: 70 - 122				
Accept. Limits: 20					Accept. Limits: 70 - 122				
DATE OF SAMPLE	ORG.	DUP.	% REL.	WITHIN	REF.	KNOWN	%	WITHIN	
ANALYSIS NUMBER	RESULT	RESULT	ERROR	LIMITS	ID.	VALUE	REC.	LIMITS	
4/12/88	13	11.00	9.00	20.0	Y	187-2	46.4	84.0	Y
4/12/88	20	40.00	31.60	23.5	IN	187-2	46.4	99.1	Y
4/12/88	43	12.80	12.40	3.17	Y	187-2	46.4	88.0	Y
4/12/88	66	11.20	7.20	43.5	IN	187-2	46.4	84.0	Y
4/12/88	71	13.60	12.80	6.05	Y	187-2	46.4	88.4	Y
4/13/88	90	10.40	8.40	21.3	IN	187-2	46.4	84.0	Y
4/13/88	112	14.40	14.40	0.00	Y	787-2	46.4	103	Y
4/13/88	133	51.20	48.40	5.62	Y	187-2	46.4	84.0	Y
4/13/88	138	25.20	19.60	25.0	IN	187-2	46.4	96.0	Y
4/13/88	139	23.50	20.00	16.1	Y	1186-2	274	92.0	Y
4/13/88	157	16.50	15.00	9.52	Y	1186-2	274	99	Y
4/13/88	158	25.60	24.00	6.45	Y	1186-2	274	99	Y
4/13/88	175	32.70	30.70	6.31	Y	--	--	--	--
4/13/88	176	23.60	18.40	24.3	IN	--	--	--	--
4/13/88	195	39.20	35.20	10.8	Y	--	--	--	--
4/13/88	196	32.00	31.50	1.57	Y	--	--	--	--
4/13/88	209	30.00	24.40	20.6	IN	--	--	--	--
4/14/88	228	22.40	21.20	5.50	Y	--	--	--	--
4/14/88	229	29.60	29.20	1.36	Y	--	--	--	--
4/14/88	241	34.00	29.20	15.2	Y	1186-2	274	99	Y
4/14/88	242	30.00	28.80	4.08	Y	--	--	--	--
4/14/88	250	22.00	19.20	13.6	Y	1186-2	274	88	Y
4/14/88	259	10.40	10.00	3.92	Y	1186-2	274	96	Y
4/14/88	290	15.20	14.80	2.67	Y	1186-2	274	90	Y
4/14/88	305	29.50	20.00	38.4	IN	1186-2	274	90	Y
4/14/88	319	12.40	10.80	13.8	Y	1186-2	274	88	Y
4/14/88	338	8.00	7.60	5.13	Y	--	--	--	--
4/15/88	364	14.80	12.80	14.5	Y	--	--	--	--
4/15/88	377	10.40	10.00	3.92	Y	--	--	--	--
4/15/88	427	36.00	34.40	4.55	Y	--	--	--	--
4/15/88	427	36.00	34.40	4.55	Y	--	--	--	--
4/15/88	442	24.80	23.80	4.12	Y	1186-2	274	93	Y
4/15/88	442	24.80	23.80	4.12	Y	1186-2	274	93	Y
4/15/88	461	32.00	31.20	2.53	Y	1186-2	274	94	Y
4/15/88	462	25.40	23.20	12.9	Y	--	--	--	--
4/15/88	474	16.80	16.80	0.00	Y	--	--	--	--
4/15/88	475	12.00	11.20	6.90	Y	1186-2	274	88	Y
4/16/88	494	44.00	43.50	1.14	Y	1186-2	274	89	Y
4/16/88	515	28.00	21.60	25.8	IN	1186-2	274	96	Y
4/16/88	537	19.20	14.40	28.6	IN	--	--	--	--
4/16/88	538	18.40	16.40	11.5	Y	9915	60.0	105	Y
4/16/88	558	32.00	29.60	7.79	Y	--	--	--	--
4/16/88	610	95.00	93.00	2.13	Y	--	--	--	--

PRECISION DUPLICATES					REFERENCE STANDARDS				
TTL SUS. SOLIDS					Accept. Limits: 70 - 122				
Accept. Limits: 20									
DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% REC.	WITHIN LIMITS
4/16/88	619	12.50	9.00	32.6	IN	--	--	--	--
4/16/88	636	77.30	75.30	2.62	Y	--	--	--	--
4/17/88	648	27.00	26.00	3.77	Y	9915	60.0	92	Y
4/17/88	670	41.60	38.00	9.05	Y	9915	60.0	93	Y
4/17/88	690	24.40	24.00	1.65	Y	--	--	--	--
4/17/88	691	16.40	16.00	2.47	Y	9915	60.0	93	Y
4/17/88	710	20.40	20.40	0.00	Y	9915	60.0	93	Y
4/17/88	711	20.00	20.00	0.00	Y	9915	60.0	80	Y
4/17/88	721	40.50	31.00	26.6	IN	9915	60.0	108	Y
4/17/88	722	40.00	39.00	2.53	Y	--	--	--	--
4/17/88	742	42.70	30.70	32.7	IN	9915	60.0	93	Y
4/17/88	743	53.30	48.30	9.84	Y	--	--	--	--
4/17/88	755	34.00	26.00	26.7	IN	9915	60.0	100	Y
4/17/88	756	18.80	17.60	6.59	Y	--	--	--	--
4/18/88	774	14.00	13.60	2.90	Y	9915	60.0	92	Y
4/18/88	775	16.80	16.40	2.41	Y	--	--	--	--
4/18/88	787	35.50	32.50	8.82	Y	--	--	--	--
4/18/88	788	33.00	31.00	6.25	Y	9915	60.0	93	Y
4/18/88	806	40.40	40.40	0.00	Y	--	--	--	--
4/18/88	807	35.30	35.30	0.00	Y	--	--	--	--
4/18/88	813	31.50	31.30	0.64	Y	--	--	--	--
4/18/88	827	36.00	31.30	14.0	Y	--	--	--	--
4/18/88	857	24.30	21.40	12.7	Y	--	--	--	--
4/18/88	892	50.00	48.00	4.03	Y	--	--	--	--
4/18/88	905	36.00	35.30	1.96	Y	9915	60.0	80	Y
4/19/88	932	34.80	33.60	3.51	Y	--	--	--	--
4/19/88	935	45.00	43.00	4.55	Y	--	--	--	--
4/19/88	940	50.00	40.70	20.5	IN	--	--	--	--
4/19/88	958	21.20	18.40	14.1	Y	9915	60.0	93	Y
4/19/88	979	41.20	31.60	26.4	IN	--	--	--	--
4/19/88	980	53.00	45.20	24.8	IN	9915	60.0	100	Y
4/19/88	998	32.00	29.30	8.81	Y	--	--	--	--
4/19/88	999	34.70	30.00	14.5	Y	9915	60.0	103	Y
4/19/88	1017	46.60	42.00	10.4	Y	--	--	--	--
4/19/88	1013	49.00	45.50	7.41	Y	9915	60.0	97	Y
4/19/88	1037	44.00	37.00	17.3	Y	--	--	--	--
4/19/88	1038	61.40	54.30	12.3	Y	--	--	--	--
4/19/88	1051	42.50	41.00	3.59	Y	9915	60.0	113	Y
4/20/88	1069	21.80	17.70	20.8	IN	--	--	--	--
4/20/88	1070	28.00	26.00	7.41	Y	9915	60.0	115	Y
4/20/88	1082	48.70	45.30	7.23	Y	--	--	--	--
4/20/88	1083	62.00	56.00	10.2	Y	9915	60.0	97	Y
4/20/88	1103	37.50	36.20	3.53	Y	9915	60.0	93	Y
4/20/88	1104	42.00	40.00	4.88	Y	9915	60.0	92	Y
4/20/88	1105	113	111	1.79	Y	--	--	--	--
4/20/88	1145	203	203	0.00	Y	--	--	--	--
4/20/88	1159	386	356	8.09	Y	9915	60.0	105	Y
4/20/88	1178	198	196	1.02	Y	9915	60.0	80	Y
4/21/88	1223	90.70	86.70	4.51	Y	--	--	--	--
4/21/88	1244	14.80	14.40	2.74	Y	9915	60.0	100	Y
4/21/88	1273	17.20	16.40	4.76	Y	9915	60.0	95	Y

PRECISION DUPLICATES REFERENCE STANDARDS
 TTL SUS. SOLIDS Accept. Limits: 20 Accept. Limits: 70 - 122

DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% REC.	WITHIN LIMITS
4/21/88	1286	21.00	19.50	7.41	Y	--	--	--	--
4/21/88	1300	22.50	22.00	2.25	Y	9915	60.0	95	Y
4/21/88	1321	12.00	11.50	4.26	Y	9915	60.0	115	Y
4/22/88	1340	13.50	11.50	16.0	Y	9915	60.0	88.0	Y
4/22/88	1361	27.00	26.50	1.87	Y	9915	60.0	125	IN
4/22/88	1372	14.40	14.00	2.82	Y	9915	60.0	107	Y
July 15	2	12.80	14.80	14.5	Y				
July 15	5	3.00	10.40	26.1	IN				
July 15	16	34.40	34.00	1.17	Y				
July 15	21	13.20	13.60	2.99	Y				
July 15	24	25.40	13.60	64.0	IN				
July 15	32	16.40	19.20	15.7	Y				
July 15	37	18.40	18.80	2.15	Y				
July 15	46	29.60	28.00	5.56	Y				
July 15	54	10.00	9.60	4.08	Y				
July 15	56	11.20	8.00	33.3	IN				
July 16	66	692.00	1836.00	18.8	Y				
July 16	73	28.40	31.60	10.7	Y				
July 16	80	218.00	1224.00	2.71	Y				
July 16	85	22.40	23.60	5.22	Y				
July 16	92	138.00	144.00	4.26	Y				
July 16	99	364.00	1370.00	1.53	Y				
July 16	104	147.00	1150.00	2.02	Y				
July 16	111	25.20	27.20	7.63	Y				
July 16	118	36.80	42.80	15.1	Y				
July 16	123	126.30	127.00	0.79	Y				
July 16	128	46.50	68.00	37.6	IN				
July 16	135	50.00	51.20	2.37	Y				
July 16	142	262.00	1318.00	19.3	Y				
July 16	147	84.00	77.10	8.57	Y				
July 16	154	207.00	1201.00	2.94	Y				
July 16	161	26.80	27.20	1.48	Y				
July 16	168	15.00	15.60	2.53	Y				
July 16	173	21.20	20.20	4.83	Y				
July 16	180	18.80	13.20	35.0	IN				
July 16	185	15.20	15.20	0.00	Y				
July 16	200	24.40	22.40	8.55	Y				
July 16	207	55.20	56.00	1.44	Y				
July 16	210	28.00	29.20	4.20	Y				
July 16	220	24.40	24.90	2.03	Y				
July 16	227	20.00	18.00	10.5	Y				
July 16	232	26.50	27.00	1.87	Y				
July 17	237	32.70	26.00	22.8	IN				
July 17	244	50.00	49.00	2.02	Y				
July 17	251	21.30	17.30	20.7	IN				
July 17	256	22.00	23.00	4.44	Y				
July 17	263	17.60	15.20	14.6	Y				
July 17	270	10.00	23.00	78.8	IN				
July 17	273	250.00	1266.00	6.20	Y				
July 17	282	26.00	24.00	8.00	Y				
July 17	284	51.00	43.00	17.0	Y				

PRECISION DUPLICATES					REFERENCE STANDARDS			
TTL SUS. SOLIDS Accept. Limits: 20					Accept. Limits: 70 - 122			
DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% WITHIN REC. LIMITS
July 17	294	159.00	151.00	5.16	Y			
July 17	297	15.40	21.10	31.2	IN			
July 17	308	8.00	8.00	0.00	Y			
July 17	313	19.10	20.00	4.60	Y			
July 17	318	17.20	12.40	32.4	IN			
July 17	323	17.20	18.40	6.74	Y			
July 17	332	61.60	56.80	8.11	Y			
July 17	336	14.00	12.30	12.9	Y			
July 17	344	19.20	17.20	11.0	Y			
July 17	351	114.00	79.20	36.0	IN			
July 17	358	8.00	30.80	118	IN			
July 17	363	18.40	16.80	9.09	Y			
July 17	370	17.20	30.70	56.4	IN			
July 18	375	25.60	24.80	3.17	Y			
July 18	392	47.30	38.00	21.8	IN			
July 18	387	13.70	15.10	9.72	Y			
July 18	393	9.20	34.40	116	IN			
July 18	399	12.50	12.30	2.37	Y			
July 18	406	8.40	10.80	25.0	IN			
July 19	413	17.30	19.60	12.5	Y			
July 18	418	25.20	24.80	1.60	Y			
July 18	422	17.00	13.60	22.2	IN			
July 18	424	11.10	12.20	9.44	Y			
July 18	431	27.70	43.70	44.8	IN			
July 18	436	30.40	30.40	0.00	Y			
July 18	438	16.80	20.50	19.8	Y			
July 19	449	30.00	37.60	22.5	IN			
July 18	451	12.00	14.00	15.4	Y			
July 18	452	17.70	12.50	34.4	IN			
July 18	459	13.50	14.40	5.71	Y			
July 18	464	41.20	43.20	4.74	Y			
July 18	469	14.00	15.20	8.22	Y			
July 18	471	26.00	20.00	26.1	IN			
July 18	472	24.00	19.00	23.3	IN			
July 18	477	15.20	12.00	23.5	IN			
July 18	484	34.50	37.50	8.33	Y			
July 18	486	18.40	19.20	4.26	Y			
July 18	487	28.60	21.30	29.3	IN			
July 18	495	38.00	39.20	3.11	Y			
July 18	502	38.60	26.60	36.8	IN			
July 18	507	44.00	29.30	40.1	IN			
July 18	509	16.40	18.60	12.6	Y			
July 18	510	40.00	28.00	35.3	IN			
July 18	520	14.00	22.00	44.4	IN			
July 18	525	20.80	26.40	23.7	IN			
July 18	528	31.20	20.80	40.0	IN			
July 18	538	33.20	40.40	19.6	Y			
July 18	545	12.40	57.60	129	IN			
July 18	547	20.80	16.80	21.3	IN			
July 18	551	247.00	1255.00	3.19	Y			
July 18	557	14.80	12.80	14.5	Y			

PRECISION DUPLICATES					REFERENCE STANDARDS			
TTL SUS. SOLIDS					Accept. Limits: 70 - 122			
Accept. Limits: 20								
DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% REC. LIMITS
July 18	562	27.20	33.60	21.1	IN			
July 20	567	16.40	18.40	11.5	Y			
July 20	572	34.00	42.00	21.1	IN			
July 20	579	48.00	52.00	8.00	Y			
July 20	581	14.30	19.40	30.3	IN			
July 20	582	43.60	20.40	72.5	IN			
July 20	591	28.40	30.00	5.48	Y			
July 20	594	34.40	42.80	21.8	IN			
July 20	600	22.00	16.00	31.6	IN			
July 20	609	21.20	21.60	1.87	Y			
July 20	616	28.40	27.20	4.32	Y			
July 20	623	26.80	29.60	9.93	Y			
July 20	626	156.80	76.80	68.5	IN			
July 20	629	44.40	44.40	0.00	Y			
July 20	636	16.00	18.40	14.0	Y			
July 20	640	54.00	46.80	14.3	Y			
July 20	642	8.28	9.43	13.0	Y			
July 20	649	29.40	40.60	32.0	IN			
July 20	655	11.20	14.40	25.0	IN			
July 20	660	51.30	60.00	15.6	Y			
July 20	661	12.80	11.50	9.84	Y			
July 20	666	39.20	40.80	4.00	Y			
July 20	673	63.60	58.40	8.52	Y			
July 20	675	101.00	107.00	5.77	Y			
July 20	679	11.80	13.00	9.68	Y			
July 20	685	34.30	62.30	58.0	IN			
July 20	693	12.70	18.00	34.5	IN			
July 20	698	48.80	55.00	13.7	Y			
July 20	699	90.30	109.00	18.2	Y			
July 20	705	14.90	19.10	24.7	IN			
July 20	710	24.80	21.60	13.8	Y			
July 20	711	39.20	44.80	13.3	Y			
July 20	718	14.60	17.70	19.2	Y			
July 20	725	56.70	56.70	0.00	Y			
July 20	725	69.20	91.00	27.2	IN			
July 20	736	36.40	36.00	1.10	Y			
July 21	741	51.30	55.30	7.50	Y			
July 21	742	121.00	1137.00	12.4	Y			
July 21	747	18.70	22.70	19.3	Y			
July 21	752	23.30	28.00	18.3	Y			
July 21	759	14.60	18.30	22.5	IN			
July 21	764	10.30	10.30	0.00	Y			
July 21	771	12.30	16.00	26.1	IN			
July 21	778	11.70	13.10	11.3	Y			
July 21	785	42.00	41.60	0.96	Y			
July 21	790	114.00	106.00	7.27	Y			
July 21	797	47.60	50.00	4.92	Y			
July 21	804	213.00	215.00	0.93	Y			
July 21	811	21.60	30.80	35.1	IN			
July 21	813	14.40	22.20	42.6	IN			
July 21	814	19.00	12.20	43.6	IN			

PRECISION DUPLICATES					REFERENCE STANDARDS				
TTL SUS. SOLIDS Accept. Limits: 20					Accept. Limits: 70 - 122				
DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% REC.	WITHIN LIMITS
July 21	825	145.00	147.00	1.37	Y				
July 21	830	9.14	19.40	71.9	IN				
July 21	838	44.80	48.40	7.73	Y				
July 21	845	11.70	21.00	56.9	IN				
July 21	852	11.60	12.00	3.39	Y				
July 21	858	14.30	16.80	16.1	Y				
July 21	859	13.80	19.80	35.7	IN				
July 21	867	31.20	37.60	18.6	Y				
July 21	872	19.20	24.00	22.2	IN				
July 21	877	147.00	141.00	4.08	Y				
July 21	882	22.40	26.00	14.9	Y				
July 21	884	13.20	11.60	12.9	Y				
July 21	886	16.80	10.60	45.3	IN				
July 21	895	58.70	54.70	7.05	Y				
July 21	900	159.00	169.00	6.10	Y				
July 21	907	111.00	97.30	13.2	Y				
July 21	913	280.00	273.00	2.53	Y				
July 21	919	4.00	6.40	46.2	IN				
July 21	926	19.30	40.00	69.8	IN				
July 21	933	16.30	18.80	14.2	Y				
July 21	938	19.60	23.20	16.8	Y				
July 21	946	19.70	23.70	18.4	Y				
July 21	948	6.40	13.60	72.0	IN				
July 21	949	19.20	25.20	31.3	IN				
July 21	957	28.80	29.20	1.38	Y				
July 22	961	12.90	12.60	2.35	Y				
July 22	962	26.60	14.60	57.0	IN				
July 22	968	10.20	12.60	21.1	IN				
July 22	969	10.00	9.20	8.33	Y				
July 22	977	36.50	35.30	3.34	Y				
July 22	980	27.60	14.40	62.9	IN				
July 22	981	14.00	18.40	31.4	IN				
July 22	986	56.00	58.40	4.20	Y				
July 22	990	12.80	14.80	14.5	Y				
July 22	992	19.80	17.50	12.3	Y				
July 22	995	58.40	57.20	2.08	Y				
July 22	996	18.00	20.00	10.5	Y				
July 22	999	13.20	13.60	2.99	Y				
July 22	1006	10.50	11.00	4.65	Y				
July 22	1007	4.80	6.40	28.6	IN				
July 22	1012	20.80	25.80	21.5	IN				
July 22	1013	19.60	20.40	4.00	Y				
July 22	1020	14.00	14.40	2.82	Y				
July 22	1026	12.20	10.60	14.0	Y				
July 22	1027	18.30	10.00	58.7	IN				
July 22	1029	10.00	13.70	31.2	IN				
July 22	1037	26.60	42.40	45.8	IN				
July 22	1039	11.00	4.16	90.2	IN				
July 22	1049	53.60	56.40	5.09	Y				
July 22	1052	167.00	1204.00	19.9	Y				
July 22	1063	16.60	15.40	7.50	Y				

PRECISION DUPLICATES					REFERENCE STANDARDS			
TTL SUS. SOLIDS Accept. Limits: 20					Accept. Limits: 70 - 122			
DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% WITHIN REC. LIMITS
July 22	1068	9.50	15.50	48.0	IN			
July 22	1073	24.20	25.60	5.62	Y			
July 22	1078	31.20	36.00	14.3	Y			
July 22	1085	12.80	7.50	29.6	IN			
July 22	1088	20.40	20.40	0.00	Y			
July 22	1091	13.80	15.30	10.3	Y			
July 22	1098	15.30	16.30	6.33	Y			
July 22	1105	19.80	17.60	11.3	Y			
July 22	1110	42.40	42.80	0.94	Y			
July 22	1115	30.80	26.80	13.9	Y			
July 22	1122	11.00	11.00	0.00	Y			
July 22	1129	24.30	20.90	15.0	Y			
July 22	1133	36.80	31.80	14.6	Y			
July 22	1134	17.10	18.90	10.00	Y			
July 22	1136	86.80	73.20	17.0	Y			
July 22	1143	30.10	19.50	42.7	IN			
July 22	1144	26.60	18.30	37.0	IN			
July 22	1149	32.30	21.70	39.3	IN			
July 22	1163	40.80	33.60	19.4	Y			
July 22	1170	4.00	3.20	22.2	IN			
July 23	1177	14.40	16.40	13.0	Y			
July 23	1178	8.00	12.80	46.2	IN			
July 23	1189	12.60	15.70	21.9	IN			
July 23	1195	25.20	30.40	18.7	Y			
July 23	1200	14.00	14.00	0.00	Y			
July 23	1207	113.00	128.00	12.4	Y			
July 23	1213	142.00	157.00	10.0	Y			
July 23	1220	31.60	23.20	30.7	IN			
July 23	1222	28.30	36.00	22.2	IN			
July 23	1232	10.00	14.00	33.3	IN			
July 23	1240	106.00	106.00	0.00	Y			
July 23	1244	76.40	84.40	9.95	Y			
July 23	1248	97.00	113.00	19.5	Y			
July 23	1254	82.00	91.50	11.0	Y			
July 23	1266	48.40	56.00	14.6	Y			
July 23	1270	17.60	18.00	2.25	Y			
July 23	1278	76.00	77.60	2.08	Y			
July 23	1284	28.80	30.80	6.71	Y			
July 23	1287	18.80	18.00	4.35	Y			
July 23	1289	8.29	9.43	12.9	Y			
July 23	1296	17.40	49.10	95.3	IN			
July 23	1303	36.80	38.00	3.21	Y			
July 23	1305	28.00	13.60	69.2	IN			
July 23	1306	34.80	16.40	71.9	IN			
July 23	1314	11.50	11.50	0.00	Y			
July 23	1315	30.40	32.00	5.13	Y			
July 23	1318	50.00	43.60	13.7	Y			
July 23	1319	53.20	38.80	31.3	IN			
July 23	1320	19.20	26.40	31.6	IN			
July 23	1329	55.30	49.30	11.5	Y			
July 23	1338	43.20	40.00	7.69	Y			

PRECISION DUPLICATES					REFERENCE STANDARDS				
TTL SUS. SOLIDS Accept. Limits: 20					Accept. Limits: 70 - 122				
DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% REC.	WITHIN LIMITS
July 23	1341	24.40	30.40	21.9	IN				
July 23	1348	15.60	14.00	10.8	Y				
July 23	1354	45.20	35.20	24.9	IN				
July 23	1362	9.20	9.20	0.00	Y				
July 23	1363	10.40	13.40	25.2	IN				
July 23	1368	36.40	33.60	8.00	Y				
July 23	1371	18.00	27.60	42.1	IN				
July 23	1380	25.60	24.00	6.45	Y				
July 23	1386	34.00	42.00	21.1	IN				
July 23	1394	14.80	15.60	5.26	Y				
July 23	1399	22.40	22.00	1.80	Y				
July 23	1406	29.60	29.60	0.00	Y				
July 23	1411	30.40	34.40	12.3	Y				
July 23	1418	26.80	19.20	33.0	IN				
July 24	1428	19.30	18.40	4.77	Y				
July 24	1437	50.60	26.60	62.2	IN				
July 24	1442	33.20	34.80	4.71	Y				
July 24	1445	15.60	23.20	39.2	IN				
July 24	1456	27.20	18.40	38.6	IN				
July 24	1460	21.20	21.20	0.00	Y				
July 24	1461	20.40	18.80	8.16	Y				
July 24	1463	36.80	26.00	34.4	IN				
July 24	1474	12.90	12.80	0.00	Y				
July 24	1479	29.60	29.40	4.14	Y				
July 24	1484	15.20	23.60	43.3	IN				
July 24	1485	18.80	30.80	48.4	IN				
July 24	1491	26.80	26.40	1.50	Y				
July 24	1497	100.00	91.30	9.10	Y				
July 24	1504	86.40	87.20	0.92	Y				
July 24	1505	17.60	18.40	4.44	Y				
July 24	1516	74.60	76.00	1.86	Y				
July 24	1517	29.20	34.80	17.5	Y				
July 24	1524	4.40	3.20	31.6	IN				
July 24	1535	10.40	9.20	12.2	Y				
July 24	1538	47.20	50.80	7.35	Y				
July 24	1541	30.00	29.60	1.34	Y				
July 24	1546	180.00	180.00	0.00	Y				
July 26	1555	55.00	47.00	15.7	Y				
July 26	1569	36.00	39.20	8.51	Y				
July 26	1574	22.00	23.00	4.44	Y				
July 26	1562	200.00	1236.00	16.5	Y				
July 26	1594	40.00	40.70	1.73	Y				
July 26	1595	28.80	31.30	8.32	Y				
July 26	1596	54.50	56.00	2.71	Y				
July 26	1599	24.70	36.00	37.2	IN				
July 26	1607	17.50	21.50	20.5	IN				
July 26	1608	7.00	11.50	48.6	IN				
July 26	1611	13.60	11.20	19.4	Y				
July 26	1619	14.50	27.60	62.2	IN				
July 27	1622	29.50	13.00	77.6	IN				
July 27	1625	25.60	6.40	120	IN				

PRECISION DUPLICATES					REFERENCE STANDARDS			
TTL SUS. SOLIDS Accept. Limits: 20					Accept. Limits: 70 - 122			
DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% REC. LIMITS
July 29	1888	29.20	29.20	0.00	Y			
July 29	1897	17.70	18.70	5.49	Y			
July 29	1900	6.80	6.80	0.00	Y			
July 29	1909	24.70	54.70	75.6	IN			
July 29	1914	15.70	14.30	9.33	Y			
July 29	1921	10.20	9.80	4.00	Y			
July 29	1927	21.70	29.70	31.1	IN			
July 29	1935	19.50	14.20	31.5	IN			
July 29	1939	12.00	15.30	24.2	IN			
July 29	1947	40.80	38.80	5.03	Y			
July 29	1954	87.00	93.50	7.20	Y			
July 29	1959	7.40	8.80	17.3	Y			
July 29	1967	20.80	18.50	11.7	Y			
July 29	1969	12.60	14.70	16.7	Y			
July 29	1971	20.80	22.00	5.61	Y			
July 29	1990	27.60	26.00	5.97	Y			
July 29	1982	21.20	19.60	7.84	Y			
July 29	1983	34.40	44.80	26.3	IN			
July 29	1991	30.50	39.00	24.5	IN			
July 29	1996	23.40	24.60	5.00	Y			
July 29	2003	23.70	25.70	8.10	Y			
July 29	2004	10.30	13.60	27.6	IN			
July 29	2005	19.00	17.70	7.08	Y			
July 29	2006	17.50	15.00	15.4	Y			
July 29	2015	14.00	17.30	21.1	IN			
July 29	2022	32.90	23.20	15.4	Y			
July 29	2025	20.00	21.50	7.23	Y			
July 29	2034	25.70	12.00	72.7	IN			
Aug. 24	13	24.00	19.20	22.2	IN	1186	274.00	80.0 Y
Aug. 24	25	308.00	1271.00	12.8	Y	1186	274.00	74.0 Y
Aug. 24	32	56.00	54.00	3.64	Y	1186	274.00	65.0 IN
Aug. 24	39	169.00	168.00	0.59	Y	9918	35.00	14.0 IN
Aug. 24	44	24.60	18.50	28.3	IN	9918	35.00	108 Y
Aug. 24	51	402.00	1402.00	0.00	Y	9918	35.00	106 Y
Aug. 24	57	584.00	1528.00	10.1	Y	9918	35.00	111 Y
Aug. 24	65	24.50	15.00	48.1	IN	9918	35.00	80.0 Y
Aug. 24	71	37.30	33.30	11.3	Y	9918	35.00	128 IN
Aug. 24	76	232.00	1228.00	1.74	Y	9918 **	35.00	94.0 Y
Aug. 24	84	247.00	1247.00	0.00	Y	9918	35.00 *	146 IN
Aug. 24	91	175.00	1110.00	45.6	IN	9918	35.00	28.0 IN
Aug. 24	96	20.70	19.00	8.56	Y	9918	35.00	114 Y
Aug. 24	103	27.00	17.00	45.5	IN	9918	35.00	126 IN
Aug. 24	108	15.70	14.30	9.33	Y	9918	35.00	120 Y
Aug. 24	116	27.00	23.00	16.0	Y	9916	100.00	2.00 IN
Aug. 24	122	35.50	30.50	15.2	Y	9916	100.00	4.00 IN
Aug. 24	128	10.40	8.00	26.1	IN	9916	100.00	2.00 IN
Aug. 24	132	123.00	1126.00	1.57	Y	9916	100.00	85 Y
Aug. 24	140	18.40	11.60	45.3	IN	9918	35.00	106 Y
Aug. 24	147	24.40	35.60	37.3	IN	9918	35.00	117 Y
Aug. 25	152	36.70	32.00	13.7	Y	9918	35.00	108 Y
Aug. 25	159	43.20	24.40	55.6	IN	9918	35.00	106 Y

PRECISION DUPLICATES						REFERENCE STANDARDS			
TTL SUS. SOLIDS Accept. Limits: 20						Accept. Limits: 70 - 122			
DATE OF ANALYSIS	(SAMPLE) NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% REC.	WITHIN LIMITS
July 27	1635	72.00	112.00	43.5	IN				
July 27	1627	30.70	30.70	0.00	Y				
July 27	1633	14.00	16.50	16.4	Y				
July 27	1636	19.30	21.30	9.85	Y				
July 27	1645	22.80	17.20	28.0	IN				
July 27	1653	31.70	19.00	50.1	IN				
July 27	1658	12.00	12.70	5.67	Y				
July 27	1659	29.30	27.30	7.07	Y				
July 27	1660	15.40	20.00	26.0	IN				
July 27	1661	47.60	50.00	4.92	Y				
July 27	1664	20.80	21.60	3.77	Y				
July 27	1665	8.00	8.00	0.00	Y				
July 27	1672	12.60	25.30	67.0	IN				
July 27	1678	13.60	14.00	2.90	Y				
July 27	1679	18.20	17.20	5.65	Y				
July 27	1683	16.60	23.20	33.2	IN				
July 27	1687	9.60	9.60	0.00	Y				
July 27	1691	34.70	36.30	4.51	Y				
July 27	1692	45.00	40.00	11.8	Y				
July 27	1694	9.00	6.00	40.0	IN				
July 27	1696	20.80	39.60	62.3	IN				
July 27	1698	10.00	14.40	36.1	IN				
July 27	1705	41.20	39.60	3.96	Y				
July 27	1710	25.20	22.40	11.3	Y				
July 28	1715	8.80	9.20	4.44	Y				
July 28	1724	25.10	32.70	26.3	IN				
July 28	1729	12.40	10.40	17.5	Y				
July 28	1738	21.40	27.50	24.9	IN				
July 28	1742	16.00	14.80	7.79	Y				
July 28	1751	10.40	12.50	18.3	Y				
July 28	1756	8.40	8.40	0.00	Y				
July 28	1763	3.50	4.00	13.3	Y				
July 28	1768	9.20	7.20	24.4	IN				
July 28	1777	28.00	26.70	4.75	Y				
July 28	1782	236.00	258.00	8.91	Y				
July 28	1789	21.70	31.30	36.2	IN				
July 28	1796	51.25	58.80	13.7	Y				
July 28	1799	66.00	67.30	1.95	Y				
July 28	1808	22.90	33.10	36.4	IN				
July 28	1813	246.00	259.00	5.15	Y				
July 28	1820	68.00	53.60	23.7	IN				
July 28	1825	12.40	15.20	20.3	IN				
July 28	1831	25.60	31.60	21.0	IN				
July 28	1840	30.00	32.70	8.61	Y				
July 28	1845	25.80	25.80	0.00	Y				
July 28	1850	97.30	102.00	4.72	Y				
July 28	1859	58.00	71.70	21.1	IN				
July 28	1862	19.60	16.80	15.4	Y				
July 28	1869	13.60	10.80	23.0	IN				
July 28	1878	26.00	22.00	16.7	Y				
July 29	1883	63.00	29.00	73.9	IN				

PRECISION DUPLICATES					REFERENCE STANDARDS			
TTL SUS. SOLIDS Accept. Limits: 20					Accept. Limits: 70 - 122			
DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% REC. LIMITS
Aug. 25	166	1.00	0.70	35.3	IN	9918	35.00	114 Y
Aug. 25	167	18.00	19.20	6.45	Y	9918	35.00	111 Y
Aug. 25	176	15.20	11.20	30.3	IN	9918	35.00	111 Y
Aug. 25	183	22.40	21.60	3.64	Y	1186	174.00	103 Y
Aug. 25	190	66.00	74.00	11.4	Y			
Aug. 25	195	17.60	16.40	7.06	Y			
Aug. 25	204	26.40	20.80	23.7	IN			
Aug. 25	211	149.00	130.00	13.6	Y			
Aug. 25	216	112.00	110.00	1.80	Y			
Aug. 25	223	12.40	11.20	10.2	Y			
Aug. 25	226	15.30	15.30	0.00	Y			
Aug. 25	235	12.00	16.80	33.3	IN			
Aug. 25	242	26.80	24.00	11.0	Y			
Aug. 25	249	14.30	14.00	2.12	Y			
Aug. 25	251	20.40	28.00	31.4	IN			
Aug. 25	262	24.90	24.30	2.44	Y			
Aug. 25	268	9.60	9.20	4.26	Y			
Aug. 25	275	9.10	13.40	38.2	IN			
Aug. 25	280	15.20	4.80	104	IN			
Aug. 25	281	18.40	16.40	11.5	Y			
Aug. 25	282	27.60	26.80	2.94	Y			
Aug. 25	283	17.20	12.80	29.3	IN			
Aug. 25	284	14.60	16.00	9.15	Y			
Aug. 25	299	31.60	31.20	1.27	Y			
Aug. 25	302	32.30	26.30	20.5	IN			
Aug. 25	303	36.90	30.30	19.6	Y			
Aug. 25	315	23.60	36.00	41.6	IN			
Aug. 25	316	28.40	39.60	32.9	IN			
Aug. 25	320	20.00	16.80	17.4	Y			
Aug. 25	327	10.80	10.20	5.71	Y			
Aug. 25	334	53.20	50.40	5.41	Y			
Aug. 25	335	16.40	14.80	10.3	Y			
Aug. 25	336	19.60	17.20	13.0	Y			
Aug. 25	345	6.00	6.00	0.00	Y			
Aug. 25	353	122.00	46.70	89.3	IN			
Aug. 25	352	38.80	34.80	10.9	Y			
Aug. 25	363	16.80	16.00	4.88	Y			
Aug. 25	370	70.00	47.20	38.9	IN			
Aug. 25	375	39.60	48.00	19.2	Y			
Aug. 25	382	51.60	55.20	6.74	Y			
Aug. 25	389	21.60	24.80	13.8	Y			
Aug. 28	422	8.20	6.80	18.7	Y			
Aug. 28	436	9.60	10.40	8.00	Y			
Aug. 28	446	19.70	22.30	12.4	Y			
Aug. 28	452	5.10	6.00	16.2	Y			
Aug. 28	460	31.50	32.00	1.57	Y			
Aug. 28	465	17.20	18.40	6.74	Y			
Aug. 28	472	13.60	13.60	0.00	Y			
Aug. 28	475	6.80	7.30	7.09	Y			
Aug. 28	485	24.70	23.00	7.13	Y			
Aug. 28	493	36.00	38.40	6.45	Y			

PRECISION DUPLICATES
TTL SUS. SOLIDS Accept. Limits: 20

REFERENCE STANDARDS
Accept. Limits: 70 - 122

DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% REC.	WITHIN LIMITS
Aug 28	500	4.30	6.00	33.0	IN				
Aug 28	502	6.00	6.90	14.0	Y				
Aug 28	514	6.00	5.33	11.8	Y				
Aug 29	516	6.33	7.67	19.1	Y				
Aug 29	523	28.40	33.60	16.8	Y				
Aug 29	535	30.60	26.30	15.1	Y				
Aug 29	540	6.00	6.67	10.6	Y				
Aug 29	549	20.80	20.00	3.92	Y				
Aug 29	550	18.80	20.30	7.67	Y				
Aug 29	563	41.70	41.70	0.00	Y				
Aug 29	564	28.80	41.10	35.2	IN				
Aug 29	575	7.20	8.00	10.5	Y				
Aug 29	583	17.00	19.00	11.1	Y				
Aug 29	585	39.70	39.40	0.76	Y				
Aug 29	586	63.30	63.30	0.00	Y				
Aug 29	595	46.40	50.80	9.05	Y				
Aug 29	602	24.60	26.30	6.68	Y				
Aug 29	603	30.80	32.00	3.82	Y				
Aug 29	615	32.30	34.70	7.16	Y				
Aug 29	620	17.60	17.60	0.00	Y				
Aug 29	621	15.00	16.30	8.31	Y				
Aug 29	622	17.00	14.80	13.8	Y				
Aug 29	629	22.00	19.50	12.0	Y				
Aug 29	630	18.30	25.00	30.9	IN				
Aug 29	639	52.50	59.50	12.5	Y				
Aug 29	643	9.67	8.67	10.9	Y				
Aug 29	646	5.20	5.20	0.00	Y				
Aug 29	655	49.00	49.70	1.42	Y				
Aug 29	656	67.50	61.50	9.30	Y				
Aug 29	659	4.60	4.90	6.32	Y				
Aug 29	670	42.40	41.60	1.90	Y				
Aug 29	672	4.00	4.30	7.23	Y				
Aug 29	682	16.80	16.40	2.41	Y				
Aug 29	690	23.00	21.70	5.82	Y				
Aug 29	694	4.40	4.80	8.70	Y				
Aug 29	704	38.90	37.40	3.93	Y				
Aug 29	706	27.60	35.60	25.3	IN				
Aug 29	711	3.50	2.80	22.2	IN				
Aug 31	722	30.40	27.20	11.1	Y				
Aug 31	729	91.20	90.40	0.88	Y				
Aug 31	731	5.20	3.20	47.6	IN				
Aug 31	743	29.60	28.00	5.56	Y				
Sep 1	748	168.80	167.20	0.95	Y				
Sep 1	752	6.00	4.80	22.2	IN				
Sep 1	762	22.40	20.00	11.3	Y				
Sep 1	765	3.20	4.40	31.6	IN				
Sep 1	771	38.50	41.50	7.50	Y				
Sep 1	779	16.00	15.20	5.13	Y				
Sep 1	784	20.00	18.80	6.19	Y				
Sep 1	790	4.40	6.80	42.9	IN				
Sep 1	801	93.00	94.00	1.07	Y				

PRECISION DUPLICATES						REFERENCE STANDARDS			
TTL SUS. SOLIDS Accept. Limits: 20						Accept. Limits: 70 - 122			
DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% REC.	WITHIN LIMITS
Sep 1	808	24.80	24.40	1.63	Y				
Sep 1	812	76.40	75.20	1.58	Y				
Sep 1	809	41.60	31.20	28.6	IN				
Sep 1	827	380.00	1342.00	10.5	Y				
Sep 1	832	120.00	121.00	0.83	Y				
Sep 6	837	800.00	1984.00	20.6	IN				
Sep 6	844	130.00	1162.00	21.9	IN				
Sep 6	851	56.00	62.00	10.2	Y				
Sep 6	858	168.00	168.00	0.00	Y				
Sep 7	865	36.00	37.00	2.74	Y				
Sep 7	869	30.00	31.00	3.28	Y				
10/21/88	4	60.80	61.60	1.31	Y				
10/21/88	11	27.20	48.40	56.1	IN				
10/21/88	19	314.00	278	12.2	Y				
10/21/88	26	78.40	72.00	8.51	Y				
10/21/88	32	298.00	1224.00	28.4	IN				
10/21/88	37	81.90	1119.00	36.9	IN				
10/21/88	43	76.70	50.00	42.1	IN				
10/21/88	46	48.80	50.40	3.23	Y				
10/23/88	57	216.00	1240.00	10.5	Y				
10/23/88	64	95.60	91.20	4.71	Y				
10/23/88	70	88.00	91.30	3.68	Y				
10/23/88	76	123.00	1132.00	7.06	Y				
10/23/88	83	64.00	64.00	0.00	Y				
10/23/88	96	94.00	1100.00	6.19	Y				
10/23/88	103	116.00	1132.00	12.9	Y				
10/23/88	116	79.30	82.00	3.35	Y				
10/23/88	110	99.30	98.00	1.32	Y				
10/23/88	123	86.00	81.00	5.99	Y				
10/23/88	130	118.00	125	5.76	Y				
10/23/88	137	125.00	143	13.4	Y				
10/23/88	142	24.00	25.10	4.48	Y				
10/23/88	150	79.00	78.00	1.27	Y				
10/23/88	156	66.00	67.30	1.95	Y				
10/23/88	163	78.00	92.00	16.5	Y				
10/23/88	170	76.70	78.70	2.57	Y				
10/27/88	177	52.00	67.00	25.2	IN				
10/27/88	184	262.00	268	2.26	Y				
10/27/88	190	69.00	69.00	0.00	Y				
10/27/88	197	86.00	80.00	7.23	Y				
10/27/88	204	47.00	49.50	5.18	Y				
10/27/88	210	33.50	35.50	5.80	Y				
10/27/88	217	47.50	53.50	11.9	Y				
10/27/88	224	131.00	126	3.89	Y				
10/27/88	230	27.20	29.20	7.09	Y				
Nov 7	4	18.80	23.20	21.0	IN				
Nov 7	11	14.80	14.00	5.56	Y				
Nov 7	16	17.20	15.20	12.3	Y				
Nov 7	17	15.60	20.40	26.7	IN				
Nov 7	25	23.00	26.00	12.2	Y				
Nov 7	32	30.00	24.00	22.2	IN				

PRECISION DUPLICATES
TTL SUS. SOLIDS||Accept. Limits: 20

REFERENCE STANDARDS
||Accept. Limits: 70 - 122

DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% REC.	WITHIN LIMITS
Nov 7	36	23.00	18.00	24.4	IN				
Nov 7	45	36.00	42.00	15.4	Y				
Nov 7	52	49.00	41.00	17.8	Y				
Nov 7	57	26.80	32.40	18.9	Y				
Nov 7	60	19.60	17.60	10.8	Y				
Nov 7	62	20.00	22.40	11.3	Y				
Nov 7	63	20.40	18.40	10.3	Y				
Nov 7	64	28.80	31.60	9.27	Y				
Nov 7	65	12.80	15.60	19.7	Y				
Nov 7	66	16.00	18.80	16.1	Y				
Nov 7	67	28.00	27.20	2.90	Y				
Nov 9	68	14.40	14.80	2.74	Y				
Nov 9	79	36.40	30.00	19.3	Y				
Nov 9	85	34.40	31.60	8.48	Y				
Nov 9	92	27.70	23.00	18.5	Y				
Nov 9	97	27.60	30.00	8.33	Y				
Nov 9	101	58.00	56.80	2.09	Y				
Nov 9	107	38.00	39.60	4.12	Y				
Nov 10	114	66.40	64.00	3.68	Y				
Nov 10	118	58.00	59.00	1.71	Y				
Nov 10	121	48.00	50.00	4.08	Y				
Nov 10	122	32.00	42.40	28.0	IN				
Nov 10	123	36.40	38.40	5.35	Y				
Nov 10	124	76.40	56.80	29.4	IN				
Nov 10	127	63.20	95.00	40.2	IN				
Nov 10	130	60.40	62.80	3.90	Y				
Nov 10	141	48.00	71.00	38.7	IN				
Nov 10	148	27.20	45.00	49.3	IN				
Nov 11	153	26.70	28.00	4.75	Y				
Nov 11	156	37.30	34.00	9.26	Y				
Nov 11	157	48.00	52.40	8.76	Y				
Nov 11	158	46.80	34.00	31.7	IN				
Nov 11	159	60.50	79.00	26.5	IN				
Nov 11	171	32.00	44.00	31.6	IN				
Nov 11	178	60.40	52.00	14.9	Y				
Nov 11	185	64.80	80.00	21.0	IN				
Nov 11	190	37.20	39.00	4.72	Y				
Nov 11	195	32.00	32.00	0.00	Y				
Nov 11	202	44.40	97.00	74.4	IN				
Nov 11	209	96.80	49.60	64.5	IN				
Nov 11	216	58.40	79.00	30.0	IN				
Nov 11	223	36.40	42.00	14.3	Y				
Nov 11	228	28.70	34.70	18.9	Y				
Nov 11	234	63.20	79.60	23.0	IN				
Nov 11	239	72.40	58.80	20.7	IN				
Nov 11	240	66.40	82.00	21.0	IN				
Nov 12	241	30.40	29.20	4.03	Y				
Nov 12	243	96.50	102	5.54	Y				
Nov 12	251	19.20	21.20	9.90	Y				
Nov 12	252	24.40	24.40	0.00	Y				
Nov 12	253	46.00	46.80	1.72	Y				

PRECISION DUPLICATES					REFERENCE STANDARDS				
TTL SUS. SOLIDS Accept. Limits: 20					Accept. Limits: 70 - 122				
DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% REC.	WITHIN LIMITS
Nov 12	264	33.60	30.80	8.70	Y				
Nov 12	271	40.80	40.00	1.98	Y				
Nov 12	273	40.80	38.80	5.03	Y				
Nov 12	274	795.00	829	4.19	Y				
Nov 12	280	31.60	32.40	2.50	Y				
Nov 12	281	48.30	48.80	0.00	Y				
Nov 12	282	58.40	58.30	0.68	Y				

Section 14

Quality Control Data

Hackensack River Study

Turbidity Analysis

GTC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Bogart

JOB#: Hackensack River Study

PARAMETER: TURBIDITY

SAMPLING EVENT: Apr,Jul,Aug,Oct,Nov

UNITS: mg/l

PRECISION DUPLICATES REFERENCE STANDARDS
 Accept. Limits: 20 Accept. Limits: 78 - 107

DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	% WITHIN LIMITS	REF. ID.	KNOWN VALUE	% WITHIN REC. LIMITS
4/12/88	13	13.00	13.00	0.00	Y	WS278-11	4.27	97.3 Y
4/12/88	20	11.00	10.00	9.52	Y	--	--	--
4/12/88	43	5.00	5.00	0.00	Y	--	--	--
4/12/88	66	38.00	38.00	0.00	Y	WS278-11	4.27	1.01 IN
4/12/88	71	34.00	34.00	0.00	Y	--	--	--
4/13/88	90	33.00	33.00	0.00	Y	--	--	--
4/13/88	112	23.00	23.00	0.00	Y	WS278-11	4.27	110 IN
4/13/88	138	7.80	7.80	0.00	Y	WS278-11	4.27	93.7 Y
4/13/88	139	6.30	6.40	6.06	Y	--	--	--
4/13/88	157	8.00	7.50	6.45	Y	--	--	--
4/13/88	158	7.80	5.50	34.6	IN	--	--	--
4/13/88	175	6.10	5.50	10.3	Y	WS278-11	4.27	94.0 Y
4/13/88	176	8.40	7.90	6.13	Y	--	--	--
4/13/88	195	12.00	11.00	8.70	Y	WS278-11	4.27	94.0 Y
4/13/88	196	12.00	10.00	18.2	Y	WS278-11	4.27	94.0 Y
4/13/88	208	8.40	7.50	11.3	Y	WS278-11	4.27	91.0 Y
4/13/88	209	9.80	8.80	10.3	Y	WS278-11	4.27	101 Y
4/13/88	228	8.90	3.80	1.13	Y	WS278-11	4.27	94.0 Y
4/14/88	229	16.00	14.00	13.3	Y	WS278-11	4.27	97.0 Y
4/14/88	241	5.70	4.90	15.1	Y	--	--	--
4/14/88	242	6.30	6.00	4.88	Y	--	--	--
4/14/88	250	13.00	12.40	4.72	Y	--	--	--
4/14/88	269	3.90	3.40	13.7	Y	--	--	--
4/14/88	290	3.90	3.90	0.00	Y	--	--	--
4/14/88	305	16.00	16.00	0.00	Y	--	--	--
4/14/88	319	4.00	3.40	16.2	Y	--	4.27	89.0 Y
4/14/88	338	4.40	4.40	0.00	Y	--	4.27	89.0 Y
4/14/88	364	4.60	4.40	4.44	Y	--	4.27	103 Y
4/15/88	377	3.90	3.80	2.60	Y	--	4.27	91.0 Y
4/15/88	396	5.40	3.90	32.3	IN	--	4.27	91.0 Y
4/15/88	402	5.90	5.40	8.85	Y	--	4.27	89.0 Y
4/15/88	403	5.80	5.40	7.14	Y	--	4.27	91.0 Y
4/15/88	428	9.40	8.80	6.59	Y	--	--	--
4/15/88	442	6.10	5.40	12.2	Y	WS278-11	4.27	94.0 Y
4/15/88	443	5.10	4.80	6.06	Y	WS278-11	4.27	97.0 Y
4/15/88	461	8.80	8.40	4.65	Y	WS278-11	4.27	97.0 Y
4/15/88	462	15.00	12.00	22.2	IN	WS278-11	4.27	94.0 Y
4/15/88	475	5.00	3.90	24.7	IN	WS278-11	4.27	91.0 Y
4/15/88	493	9.40	9.00	4.35	Y	WS278-11	4.27	94.0 Y
4/15/88	494	19.00	16.00	17.1	Y	WS278-11	4.27	101 Y
4/15/88	515	6.60	5.80	12.9	Y	WS 278-11	4.27	103 Y
4/16/88	537	8.10	8.00	1.24	Y	--	--	--
4/16/88	538	9.00	8.70	3.39	Y	--	--	--

		PRECISION DUPLICATES				REFERENCE STANDARDS			
TURBIDITY		Accept. Limits: 20				Accept. Limits: 78 - 107			
DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% REC.	WITHIN LIMITS
4/17/88	558	6.40	6.10	4.80	Y	--	--	--	--
4/17/88	585	5.90	5.20	12.6	Y	--	--	--	--
4/17/88	614	5.40	5.30	1.87	Y	IWS278-1	4.27	94.0	Y
4/17/88	619	5.40	5.00	7.69	Y	IWS278-1	4.27	97.0	Y
4/17/88	651	4.80	4.50	6.45	Y	IWS278-1	4.27	91.0	Y
4/17/88	667	4.60	4.40	4.44	Y	IWS 278-	4.27	94.0	Y
4/17/88	690	6.60	5.10	25.6	IN	--	--	--	--
4/17/88	691	5.40	5.30	1.87	Y	--	--	--	--
4/17/88	710	5.10	5.10	0.00	Y	IWS 278-	4.27	89.0	Y
4/17/88	711	6.00	5.50	8.70	Y	IWS 278-	4.27	91.0	Y
4/17/88	721	9.30	8.80	5.52	Y	IWS 278-	4.27	101	Y
4/17/88	722	8.40	8.10	3.64	Y	IWS 278-	4.27	91.0	Y
4/17/88	742	14.00	13.00	7.41	Y	IWS 278-	4.27	94.0	Y
4/17/88	743	10.00	10.00	0.00	Y	IWS 278-	0.15	91.0	Y
4/17/88	755	19.00	17.50	8.22	Y	IWS 278-	4.27	94.0	Y
4/17/88	756	7.30	6.60	10.1	Y	IWS 278-	4.27	91.0	Y
4/18/88	774	5.40	5.30	1.87	Y	--	--	--	--
4/18/88	775	7.00	6.70	4.38	Y	--	--	--	--
4/18/88	787	14.00	12.00	15.4	Y	--	--	--	--
4/18/88	788	9.90	9.30	6.25	Y	--	--	--	--
4/18/88	790	6.70	2.90	79.2	IN	IWS 278-	4.27	39.0	Y
4/18/88	806	8.10	7.90	2.50	Y	--	--	--	--
4/18/88	807	9.90	9.50	4.12	Y	--	--	--	--
4/18/88	813	7.40	7.10	4.14	Y	--	--	--	--
4/18/88	827	9.10	7.90	2.50	Y	--	--	--	--
4/18/88	892	6.90	5.90	0.00	Y	IWS278-1	4.27	91.0	Y
4/18/88	905	8.00	7.60	5.13	Y	IWS278-1	4.27	101	Y
4/19/88	935	7.40	7.10	4.14	Y	IWS278-1	4.27	91.0	Y
4/19/88	952	7.90	7.20	9.27	Y	IWS 278-	4.27	94.0	Y
4/19/88	979	16.00	15.00	6.45	Y	IWS 278-	4.27	91.0	Y
4/19/88	980	16.00	15.00	6.45	Y	IWS 278-	4.27	94.0	Y
4/19/88	998	8.80	8.40	4.65	Y	IWS 278-	4.27	91.0	Y
4/19/88	1017	18.00	17.00	5.71	Y	--	--	--	--
4/19/88	1018	20.00	18.00	10.5	Y	--	--	--	--
4/19/88	1037	13.00	12.00	8.00	Y	--	--	--	--
4/19/88	1038	24.00	22.00	8.70	Y	IWS 278-	4.27	98.0	Y
4/19/88	1051	18.10	17.00	6.27	Y	IWS 278-	4.27	89.0	Y
4/20/88	11069	11.00	11.00	0.00	Y	IWS 278-	4.27	96.0	Y
4/20/88	11070	9.70	9.40	3.14	Y	IWS 278-	4.27	89.0	Y
4/20/88	11082	16.50	16.00	3.08	Y	IWS278-1	4.27	91.0	Y
4/20/88	11083	16.00	15.00	6.45	Y	IWS278-1	4.27	91.0	Y
4/20/88	11103	--	--	IN.C.	---	IWS278-1	4.27	89.0	Y
4/20/88	11104	17.00	15.00	12.5	Y	--	--	--	--
4/20/88	11105	39.00	37.00	5.26	Y	--	--	--	--
4/20/88	11145	25.00	23.00	8.33	Y	--	--	--	--
4/20/88	11159	32.00	32.00	0.00	Y	IWS278-1	4.27	89.0	Y
4/21/88	11178	37.00	37.00	0.00	Y	IWS278-1	4.27	91.0	Y
4/21/88	11223	23.00	21.00	9.09	Y	IWS278-1	4.27	91.0	Y
4/21/88	11244	6.60	5.90	11.2	Y	IWS278-1	4.27	84.0	Y
4/21/88	11273	5.60	5.10	9.35	Y	IWS278-1	4.27	87.0	Y
4/21/88	11286	6.40	3.60	56.0	IN	IWS278-1	4.27	84.0	Y

		PRECISION DUPLICATES				REFERENCE STANDARDS			
TURBIDITY		Accept. Limits: 20				Accept. Limits: 78 - 107			
DATE OF ISAMPLI	ORG. I DUP. I % REL. I WITHIN I	REF. I KNOWN I % I WITHIN							
ANALYSIS I NUMBER I	RESULT I RESULT I ERROR I LIMITS I	ID. I VALUE I REC. I LIMITS I							
4/21/88	11300	7.50	7.00	6.90	Y	11WS278-11	4.27	96.0	Y
4/22/88	11321	7.00	5.00	33.3	IN	11WS278-11	4.27	87.0	Y
4/22/88	11340	3.60	4.40	20.0	IN	11WS278-11	4.27	89.0	Y
4/22/88	11361	4.20	4.20	0.00	Y	11WS 278-1	4.27	87.0	Y
4/22/88	11372	4.90	3.60	30.5	IN	11WS 278-1	4.27	84.0	Y
July 12	5	10.00	10.00	0.00	Y				
July 12	24	14.00	14.00	0.00	Y				
July 12	37	14.40	14.00	2.82	Y				
July 12	56	12.00	12.00	0.00	Y				
July 12	86	17.00	17.00	0.00	Y				
July 13	159	14.00	14.00	160	IN				
July 13	160	18.00	18.00	0.00	Y				
July 13	197	3.30	6.50	65.3	IN				
July 13	198	4.50	4.50	0.00	Y				
July 13	217	4.10	4.10	0.00	Y				
July 13	218	6.10	6.10	0.00	Y				
July 13	225	2.60	4.40	51.4	IN				
July 13	226	3.80	3.80	0.00	Y				
July 13	245	6.30	6.30	0.00	Y				
July 13	249	4.40	4.40	0.00	Y				
July 13	250	4.50	3.80	12.3	Y				
July 13	262	4.50	4.50	0.00	Y				
July 13	263	4.60	4.60	0.00	Y				
July 14	297	9.50	9.50	0.00	Y				
July 14	309	13.00	13.00	0.00	Y				
July 14	322	18.00	18.00	0.00	Y				
July 14	335	20.00	20.00	0.00	Y				
July 14	354	20.00	20.00	0.00	Y				
July 14	367	8.30	8.30	0.00	Y				
July 14	394	15.00	15.00	0.00	Y				
July 14	407	15.00	15.00	0.00	Y				
July 14	420	4.50	4.50	0.00	Y				
July 14	421	5.60	5.60	0.00	Y				
July 14	438	4.80	4.80	0.00	Y				
July 14	439	3.00	3.00	0.00	Y				
July 15	451	4.50	4.50	0.00	Y				
July 15	452	4.10	4.50	9.30	Y				
July 15	486	5.20	5.20	487	IN				
July 15	487	6.00	5.50	8.70	Y				
July 15	494	15.00	15.00	0.00	Y				
July 15	510	5.30	5.30	0.00	Y				
July 15	526	15.00	15.00	0.00	Y				
July 15	527	5.40	5.40	0.00	Y				
July 15	528	3.50	3.50	0.00	Y				
July 15	546	4.60	4.60	0.00	Y				
July 15	547	3.30	3.80	0.00	Y				
July 15	562	4.20	4.20	0.00	Y				
July 15	567	7.20	7.20	0.00	Y				
July 15	581	5.10	4.50	12.5	Y				
July 15	582	5.50	5.50	0.00	Y				
July 15	589	30.00	30.00	0.00	Y				

PRECISION DUPLICATES REFERENCE STANDARDS
 TURBIDITY Accept. Limits: 20 Accept. Limits: 78 - 107

DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% REC.	WITHIN LIMITS
July 17	605	28.00	28.00	0.00	Y				
July 17	626	38.00	38.00	0.00	Y				
July 17	632	6.00	7.10	16.8	Y				
July 17	633	6.90	6.90	0.00	Y				
July 17	640	9.30	9.30	0.00	Y				
July 17	661	20.00	20.00	0.00	Y				
July 17	665	5.90	5.90	0.00	Y				
July 17	675	28.00	28.00	0.00	Y				
July 17	699	32.00	32.00	0.00	Y				
July 17	711	16.00	16.00	0.00	Y				
July 17	725	25.00	25.00	0.00	Y				
July 17	742	35.00	35.00	0.00	Y				
July 17	767	15.00	15.00	0.00	Y				
July 17	813	4.50	4.50	0.00	Y				
July 17	814	3.90	3.90	0.00	Y				
July 17	832	4.60	4.60	0.00	Y				
July 17	833	3.50	3.50	0.00	Y				
July 17	853	3.80	3.50	8.22	Y				
July 17	854	7.00	4.00	54.5	IN				
July 17	855	3.50	3.50	0.00	Y				
July 17	856	3.60	3.60	0.00	Y				
July 17	871	3.50	3.50	0.00	Y				
July 17	872	3.10	3.10	0.00	Y				
July 17	884	2.50	2.50	0.00	Y				
July 17	885	3.10	3.10	0.00	Y				
July 18	949	5.80	5.80	0.00	Y				
July 18	961	4.30	4.30	0.00	Y				
July 18	962	3.40	3.40	0.00	Y				
July 18	968	3.50	3.50	0.00	Y				
July 18	980	4.20	4.20	0.00	Y				
July 18	981	3.60	3.60	0.00	Y				
July 18	989	4.50	4.50	0.00	Y				
July 18	990	4.20	4.20	0.00	Y				
July 18	1006	3.40	3.10	9.23	Y				
July 18	1012	5.40	5.40	0.00	Y				
July 18	1013	5.40	5.40	0.00	Y				
July 18	1020	2.90	2.90	0.00	Y				
July 18	1026	3.60	3.60	0.00	Y				
July 18	1027	3.40	3.40	0.00	Y				
July 18	1039	2.10	2.10	0.00	Y				
July 19	1052	14.00	14.00	0.00	Y				
July 19	1067	4.60	4.60	0.00	Y				
July 19	1088	3.50	3.50	0.00	Y				
July 19	1117	24.00	24.00	0.00	Y				
July 19	1136	24.00	24.00	0.00	Y				
July 19	1143	5.40	5.40	0.00	Y				
July 19	1144	6.40	6.40	0.00	Y				
July 19	1149	7.40	7.40	0.00	Y				
July 20	1156	3.50	3.50	0.00	Y				
July 20	1157	3.10	3.10	0.00	Y				
July 20	1168	23.00	23.00	0.00	Y				

		PRECISION DUPLICATES				REFERENCE STANDARDS			
TURBIDITY		Accept. Limits: 20				Accept. Limits: 78 - 107			
DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% REC.	WITHIN LIMITS
July 20	11286	5.20	5.20	0.00	Y				
July 20	11287	4.40	4.40	0.00	Y				
July 20	11305	4.90	4.90	0.00	Y				
July 20	11306	4.80	4.80	0.00	Y				
July 20	11315	15.00	15.00	0.00	Y				
July 20	11318	4.90	4.90	0.00	Y				
July 21	11319	5.60	5.60	0.00	Y				
July 21	11341	6.00	15.00	85.7	IN				
July 22	11575	9.70	9.70	0.00	Y				
July 22	11363	6.20	6.00	3.28	Y				
July 22	11599	14.00	15.00	6.90	Y				
July 23	11635	39.00	6.30	144	IN				
July 23	11636	18.00	6.50	93.9	IN				
July 23	11640	7.10	15.00	71.5	IN				
July 21	11460	6.20	6.30	1.60	Y				
July 21	11461	6.20	5.30	15.7	Y				
July 21	11484	5.80	6.20	6.67	Y				
July 21	11485	5.90	6.20	4.96	Y				
July 22	11538	10.00	113.00	26.1	IN				
July 22	11570	9.50	9.70	2.08	Y				
July 22	11496	8.60	15.00	54.2	IN				
July 22	11518	7.30	7.20	1.38	Y				
July 22	11586	12.00	113.00	8.00	Y				
July 22	11595	7.80	7.80	0.00	Y				
July 24	11659	7.30	7.60	4.03	Y				
July 24	11660	7.00	7.20	2.82	Y				
July 24	11664	14.00	114.00	0.00	Y				
July 24	11678	6.00	6.20	3.28	Y				
July 24	11679	5.90	5.90	0.00	Y				
July 24	11683	7.00	8.70	3.39	Y				
July 24	11691	9.50	9.60	1.05	Y				
July 24	11692	11.00	111.00	0.00	Y				
July 24	11696	13.00	115.00	14.3	Y				
July 24	11811	4.00	4.00	0.00	Y				
July 25	11832	16.00	119.00	17.1	Y				
July 25	11942	5.00	5.50	9.52	Y				
July 25	11969	5.50	4.50	20.0	Y				
July 25	11970	4.70	4.50	4.35	Y				
July 25	11981	6.70	4.80	33.0	IN				
July 25	11983	4.50	4.60	2.20	Y				
July 26	12004	3.80	3.70	2.67	Y				
July 26	12005	4.30	3.30	26.3	IN				
July 26	12027	4.00	3.90	2.53	Y				
July 26	12028	4.60	4.60	0.00	Y				
Aug 25	176	23.00	119.00	19.0	Y	11278.10	4.27	70.3	IN
Aug 25	1132	34.00	134.00	0.00	Y	11278.20	0.82	122	IN
Aug 25	1147	29.00	126.00	10.9	Y	11278.20	0.82	134	IN
Aug 25	1167	13.00	8.40	43.0	IN	11278.20	0.82	159	IN
Aug 26	1251	3.20	4.00	22.2	IN	11278.20	0.82	146	IN
Aug 26	1252	5.00	5.20	3.92	Y	11278.2	0.82	146	IN
Aug 26	1281	7.80	7.70	1.29	Y	11278.20	0.82	110	IN

		PRECISION DUPLICATES				REFERENCE STANDARDS			
TURBIDITY		Accept. Limits: 20				Accept. Limits: 78 - 107			
DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% REC.	WITHIN LIMITS
Aug 26	282	9.10	9.00	1.10	Y	1278.20	0.82	134	IN
Aug 26	283	5.50	5.30	3.70	Y	1278.20	0.82	159	IN
Aug 26	284	5.90	5.90	0.00	Y	1278.20	0.82	171	IN
Aug 26	315	9.50	7.40	24.9	IN	1278.20	0.82	171	IN
Aug 26	316	8.90	8.30	6.98	Y	1278.20	0.82	183	IN
Aug 26	335	4.50	4.00	11.8	Y	1278.20	0.82	183	IN
Aug 26	336	3.00	4.00	29.6	IN	1278.20	0.82	183	IN
Aug 26	352	9.30	115.00	46.9	IN	1278.20	0.82	171	IN
Aug 26	353	25.00	14.00	56.4	IN	1278.20	0.82	171	IN
Aug 26	365	4.40	4.90	10.8	Y	1278.20	0.82	171	IN
Aug 26	366	8.10	11.00	30.4	IN	1278.20	0.82	134	IN
Aug 26	382	18.00	12.00	40.0	IN	1278.20	0.82	171	IN
Aug 26	383	11.00	13.00	16.7	Y	1278.20	0.82	146	IN
Aug 26	394	7.20	6.90	4.26	Y	1278.20	0.82	134	IN
Aug 26	422	4.40	4.40	0.00	Y	1278.20	0.82	183	IN
Aug 27	436	5.90	6.20	4.96	Y	1278.20	0.82	134	IN
Aug 27	452	4.20	4.10	2.41	Y				
Aug 27	475	4.70	5.30	12.0	Y				
Aug 27	521	6.50	6.50	0.00	Y				
Aug 27	522	14.00	13.00	7.41	Y				
Aug 27	523	13.00	13.00	0.00	Y				
Aug 27	524	18.00	18.00	0.00	Y				
Aug 27	550	5.10	4.80	6.06	Y				
Aug 27	551	4.70	4.90	4.17	Y				
Aug 27	563	9.90	9.90	0.00	Y				
Aug 28	564	14.00	13.00	7.41	Y				
Aug 28	585	6.90	8.00	14.8	Y				
Aug 28	586	19.00	20.00	5.13	Y				
Aug 28	602	8.10	8.00	1.24	Y				
Aug 28	603	12.00	11.00	8.70	Y				
Aug 28	621	5.10	5.30	3.85	Y				
Aug 28	622	4.90	5.60	13.3	Y				
Aug 28	629	7.60	7.50	1.32	Y				
Aug 28	630	6.90	7.80	12.2	Y				
Aug 28	646	2.60	2.80	7.41	Y				
Aug 28	655	11.00	115.00	30.8	IN				
Aug 28	656	14.00	117.00	19.4	Y				
Aug 28	659	1.90	2.10	10.0	Y				
Aug 29	672	1.90	1.90	0.00	Y				
Aug 29	694	2.00	1.90	5.13	Y				
Aug 29	711	2.30	2.30	0.00	Y				
Aug 29	731	2.20	2.20	0.00	Y				
Aug 29	752	2.10	2.20	4.65	Y				
Aug 29	765	2.40	2.20	8.70	Y				
Aug 29	779	6.20	6.20	0.00	Y				
Aug 30	784	7.30	6.00	19.5	Y				
Aug 30	789	7.00	6.20	12.1	Y				
10/17/88	12	45.00	145.00	0.00	Y	1278-2	0.82	75.6	IN
10/17/88	20	73.00	177.50	5.98	Y	1278-2	0.82	85.7	Y
10/18/88	39	41.00	142.50	3.59	Y	1278-2	0.82	97.3	Y
10/18/88	47	59.00	145.00	26.9	IN	1278-2	0.82	91.7	Y

		PRECISION DUPLICATES				REFERENCE STANDARDS			
TURBIDITY		Accept. Limits: 20				Accept. Limits: 78 - 107			
DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% REC.	WITHIN LIMITS
10/18/88	58	63.00	155.00	13.6	Y	11278-2	0.82	73.4	IN
10/19/88	65	68.00	132.00	72.0	IN	11278-2	0.82	81.3	Y
10/19/88	87	19.50	124.80	23.9	IN	11278-2	0.82	86.8	Y
10/19/88	94	16.00	116.00	0.00	Y				
10/20/88	108	30.00	130.00	0.00	Y				
10/20/88	115	92.00	184.00	9.09	Y				
10/20/88	128	56.00	146.00	19.6	Y				
10/21/88	135	18.00	114.00	25.0	IN				
10/21/88	156	50.00	142.00	17.4	Y				
10/21/88	169	53.00	149.00	7.84	Y				
10/21/88	177	41.00	137.00	10.3	Y				
10/21/88	189	40.00	140.00	0.00	Y				
10/21/88	193	45.00	127.00	50.0	IN				
10/21/88	207	39.00	137.00	5.26	Y				
10/21/88	215	32.00	124.00	28.6	IN				
10/22/88	225	24.00	124.50	2.06	Y				
10/22/88	230	19.00	119.00	0.00	Y				
Nov 9	61	6.60	6.50	1.53	Y				
Nov 9	62	7.30	7.40	1.36	Y				
Nov 9	63	6.20	6.70	7.75	Y				
Nov 9	64	5.70	6.00	5.13	Y				
Nov 9	65	5.90	6.20	4.96	Y				
Nov 9	66	6.90	7.00	1.44	Y				
Nov 9	67	7.50	7.40	1.34	Y				
Nov 9	68	5.40	5.90	8.85	Y				
Nov 9	85	25.00	123.00	8.33	Y				
Nov 9	89	7.40	7.30	1.36	Y				
Nov 9	101	24.00	123.00	4.26	Y				
Nov 10	122	8.50	8.60	1.17	Y				
Nov 10	123	8.40	8.50	1.18	Y				
Nov 10	124	8.60	8.70	1.16	Y				
Nov 10	157	15.00	114.00	6.90	Y				
Nov 10	158	14.00	113.00	7.41	Y				
Nov 10	159	21.00	122.00	4.65	Y				
Nov 11	234	8.40	6.50	25.5	IN				
Nov 11	240	17.00	112.00	34.5	IN				
Nov 12	241	8.60	8.40	2.35	Y				
Nov 12	242	12.00	112.00	0.00	Y				
Nov 12	243	40.00	131.00	25.4	IN				
Nov 12	245	21.50	122.00	2.30	Y				
Nov 12	251	10.50	111.00	4.65	Y				
Nov 12	252	12.00	111.50	4.26	Y				
Nov 12	253	18.00	117.00	5.71	Y				
Nov 12	265	18.00	117.00	5.71	Y				
Nov 12	273	15.00	115.50	3.28	Y				
Nov 12	275	10.00	110.00	0.00	Y				
Nov 12	280	15.50	113.50	13.8	Y				
Nov 12	281	16.00	116.00	0.00	Y				
Nov 12	282	19.00	118.00	5.41	Y				

**PART 3
Benthic Studies**

Hackensack River And Tidal Marsh Sediments

April 1988 To October 1989

March 27, 1990

Submitted To:

**Dr. Dennis Lai
Clinton Bogert Associates
270 Sylvan Ave.
Englewood Cliffs, NJ 07632**

Submitted By:

**Mr. Sean Gormley
General Testing Corp.
85 Trinity Place
Hackensack, NJ 07601**

Table of Contents

Page(s)	Subject Matter
	Description of Sampling Locations
	Sampling Methodology Summary
	Analytical Methodology Summary
	SOD Data, June 1988
	SOD Data, August 1988
	SOD Data, September 1988
	SOD Data, October 1988
	SOD Data, November 1988 Trib. Study
	SOD Data, November 1988
	SOD Data, March 1989
	SOD Data, April 1989
	SOD Data, August 1989 Trib. Study
	SOD Data, August 1989
	Denitrification Procedure (Source Material)
	Denitrification Data, December 1988
	Denitrification Data, September 1989

SUMMARY OF SOD SAMPLING LOCATIONS (main HRS study)
W-1, W-2, W-3, W-5, W-6

The locations were picked so as to be off the main channel, in an area below the low-low water line, as near to the regular sampling point as possible. Influences from irregularities in banks were also avoided. Local landmarks were used by the boat crew in order to replicate the sample point for each survey. With the exception of W-2, the sampling occurred within a twenty ft. area each time.

W-1

East side of river, approximately 200 yds. upstream of the Rt. 1&9 truck bridge, in line between the fourth and fifth stanchion and the old pier, 100' down from the pier, 10'-20' deep. Black organics.

W-2

West side of river, 100' upstream of Sawmill mouth in front of small white DEP sign, 20' off bank. At the mean low water line a steep bank drops off from 5' to 30' in a 15' distance. The top of this bank was brown organic with fine roots, samples were collected near the middle of this bank (below low-low water) and varied between organic and hard gray clay.

W-3

East side of river 200 yds upstream of RR bridge, 25'-50' from bank, in-line with small boat passage under bridge, 15' down from southern end of Harmon Cove. This location varied from event to event because the hard clay bottom was not always possible to collect. The area 100' upstream of the sampling location cove had very soft black organics due to the way the currents moved through the area and was not representative of this section of river. The sample collected on 3/20/89 was taken from this area because the usual area was impossible to core.

W-5

West side of river, 50' below the Rt. 46 bridge, 10-20' from bank, 5' west of the western piling of bridge. This area was just below low-low water and some cores were hand pushed when sampling coincided with low tide. There was at least 1' of water at this location during all events. The original location was to be upstream of Route 46 but this was found to be impossible because the bottom was covered with wood debris (telephone poles, planks ect..) and one sampler was broken attempting to sample here.

W-6

30' Upstream of the FDU pedestrian bridge on east side of main channel, 50' from east bank. Below low-low water, some cores were hand pushed at low tide with 1' overlying water.

SEDIMENT SAMPLING PROCEDURE

Sediments were collected using a 40 pound sediment corer with 2" x 20" plastic liner tubes. The corer was lowered from a davit which extended off the bow of a 17" Grumman bass boat. The rate of decent was varied in relation to the bottom composition, hard clay needed a free fall and soft organic ooze required a gentle touch. The filled tubes were then capped on the bottom and gently slid out of the sampler. The top was then capped with a plugged cover. Cores which contained approximately 10" of sediment and 10" water were kept for analysis. Core tubes were topped off with water from the extra tubes.

Near bottom water was collected using a 2.2 liter horizontal Van Dorn sampler. A weighted 3 foot line was attached to the sampler to locate the bottom and the sample was collected after the bottom was given time to clear.

Samples were generally returned to the lab within 2 hours after sampling. Field measurements of dissolved oxygen were attempted during the first few events but proved to be inaccurate due to the rocking motion of the boat. Temperature of each core was measured in the field.

Analytical Methodology

Sediment Oxygen Demand

December 8, 1989 To February 3, 1990

Analytical Methodology Summary for SOD Analyses

Upon receipt from the field crew, the cores and near bottom water, or NBW, were transported to the lab in insulated containers. Core overlying water was drawn from several extra cores, and analyzed for CBOD5, TKN, NH3, NO2, NO3, and total and ortho phosphorus. NO3 was not requested in the original proposal, but was added at the request of Dr. Jay Taft after the first set of SOD data was reviewed. Aliquots of the NBW sample were also analyzed for these parameters, and salinity was determined so that the DO meters could be correctly calibrated.

The cores were incubated in the dark, at in-situ temperature, and DO measurements were taken at 0, 1/2, 1, 2, 4, 8, 16 and 24 hours into the procedure.

If DO decreased to less than 2 mg/l at any time during the procedure, the overlying was drawn off, analyzed for the parameters listed above, and replaced with an equal volume of NBW. The volume of core overlying water replaced, and the new DO concentration in the water over the cores were recorded. No further DO measurements were taken until the 24 hour reading.

After the cores had been incubated for 24 hours, the core overlying water was drained and analyzed once again for the above listed parameters.

In August of 1989, a portion of the sediment from each location was analyzed for TKN, NH3, NO2, NO3 and total and ortho phosphorus. This was a change from the original proposal, in which only the interstitial water was to be analyzed, and only for CBOD, TKN, NO2 and NH3.

As a general procedure, all stations were analyzed in duplicate, and DO meters were standardized several times during each event, although no tendency to lose calibration was noticed. The only anomaly noticed was a tendency for certain cores to show an increase in DO during a portion of the procedure. No apparent cause could be isolated, and, as all cores were not affected, the phenomenon is not likely to be of lab origin.

Sediment Oxygen Demand Data

June 28, 1988

Station W1
Sediment Oxygen Data, June 1988

Hours Into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 7.5 Inches Sediment 6.5 Inches
Before	9.30	7.40	7.40	Core 2: Water Column 8.5 Inches Sediment 7.5 Inches
0.00	10.30	7.20	7.20	
0.50	11.00	7.20	7.20	
1.00	11.30	7.10	6.00	
2.00	12.30	7.00	6.00	Comments
4.00	14.30	5.20	5.70	
8.00	18.30	5.20	5.30	Depth 12 ft.
16.00	2.30	4.60	4.40	Temp. 22 C
24.00	10.30	3.80	2.40	

Station W2

Sediment Oxygen Data, June 1988

Hours Into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 7.5 Inches Sediment 6.5 Inches
Before	12.45	5.00	5.00	Core 2: Water Column 8 Inches Sediment 8 Inches
0.00	14.30	4.80	5.00	
0.50	15.00	3.80	4.20	
1.00	15.30	3.60	4.20	
2.00	16.30	3.40	4.10	Comments
4.00	18.30	2.60	3.80	
8.00	22.30	2.40	3.10	Depth 30 ft.
16.00	6.30	2.20	2.80	Temp. 25 C
24.00	14.30	2.00	2.00	

Station W3
Sediment Oxygen Data, June 1988

Hours Into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 7.5 Inches Sediment 7 Inches
Before	11.10	4.10	4.10	Core 2:
0.00	12.30	4.00	4.90	Water Column 8 Inches
0.50	13.00	3.80	3.90	Sediment 6.5 Inches
1.00	13.30	3.80	3.80	
2.00	14.30	3.40	3.40	Comments
4.00	16.30	3.40	3.40	
8.00	20.30	3.20	3.20	Depth 15 ft
16.00	4.30	2.60	2.90	Temp. 25 C
24.00	12.30	2.50	2.60	

Station W5
Sediment Oxygen Data, June 1988

Hours Into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 6 Inches Sediment 8.5 Inches
Before	13.15	6.50	6.60	Core 2:
0.00	14.55	6.00	6.40	Water Column 6 Inches
0.50	15.25	5.90	6.00	Sediment 7.5 Inches
1.00	15.55	5.80	5.70	
2.00	16.55	5.60	5.60	Comments
4.00	18.55	5.20	5.20	
8.00	22.55	5.10	5.10	Depth 1-2 ft.
16.00	6.55	4.20	4.20	Temp. 25 C
24.00	14.55	4.20	4.20	

**Station W6
Sediment Oxygen Data, June 1988**

Hours Into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 7 Inches Sediment 7.5 Inches
Before	10.15	7.00	7.00	Core 2: Water Column 7.5 Inches Sediment 7.5 Inches
0.00	11.30	6.60	6.90	
0.50	12.00	6.00	6.60	
1.00	12.30	5.90	6.40	
2.00	13.30	5.80	6.20	Comments
4.00	15.30	5.80	6.00	
8.00	19.30	5.20	5.40	Depth 3 ft.
16.00	3.30	4.40	4.40	Temp. 25 C
24.00	11.30	3.20	2.80	

Nutrient Data for Bottom Sediment from the SOD Stations, June 28 1988.
All data except pH in mg/l.

Station	pH	CBOD-5	TKN	NH3	NO2	NO3	T-PO4	O-PO4
W1 NBW	7.3	1.15	1.36	1.00	0.14	***	0.16	0.10U
W2 NBW	7.2	1.30	0.82	0.40	0.32	***	0.63	0.16
W3 NBW	7.3	1.05	2.30	1.80	0.03	***	0.72	0.55
W5 NBW	7.3	4.90	6.10	4.58	0.19	***	1.51	1.05
W6 NBW	7.3	4.55	7.64	6.50	0.22	***	0.45	0.33
W1 OLW	*	*	1.36	1.00	0.14	***	0.16	0.10U
W2 OLW	*	*	1.40	1.00	0.30	***	0.68	0.10U
W3 OLW	*	*	1.13	0.11	0.29	***	0.73	0.20
W5 OLW	7.1	5.10	6.00	4.60	0.18	***	1.45	1.14
W6 OLW	*	*	8.84	7.00	0.22	***	0.45	0.17
W1 OLW(FINAL)	7.0	3.40	0.20U	0.15	0.12	***	0.10	0.10U
W2 OLW(FINAL)	7.0	3.28	2.24	1.85	0.16	***	0.40	0.36
W3 OLW(FINAL)	7.3	4.55	0.24	0.15	0.23	***	0.75	0.41
W5 OLW(FINAL)	7.1	3.48	9.98	6.88	0.10	***	1.86	1.71
W6 OLW(FINAL)	7.1	3.65	8.17	6.41	0.15	***	0.36	0.34

* Insufficient Sample.
*** Analysis had not been requested in original proposal.

Sediment Oxygen Demand Data

August 16, 1988

Station W1
Sediment Oxygen Data, August 1988

Hours Into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 11 Inches Sediment 11 Inches
Before	10.00	5.10	5.10	Core 2:
0.00	12.00	5.60	5.80	Water Column 14 Inches
0.50	12.30	5.80	5.60	Sediment 7.5 Inches
1.00	13.00	5.80	5.80	
2.00	14.00	5.80	5.80	Comments
4.00	16.00	6.10	5.90	
8.00	20.00	5.40	5.60	Depth 12 ft.
16.00	4.00	4.20	3.80	Temp. 27 C
24.00	12.00	0.70	0.60	

Station W2

Sediment Oxygen Data, August 1988

Hours Into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 12 Inches Sediment 12.5 Inches
Before	12.00	4.00	4.50	Core 2:
0.00	13.30	4.00	4.00	Water Column 10 Inches
0.50	14.00	4.60	4.70	Sediment 14.5 Inches
1.00	14.30	4.80	4.80	
2.00	15.30	5.00	5.00	Comments
4.00	17.30	4.80	5.20	
8.00	21.30	4.80	4.70	Depth 20 ft.
16.00	5.30	3.50	*0.00	Temp. 30 C
24.00	13.30	3.40	0.00	

* Sample DO depleted. 200 ml decanted and replaced with NBW.
New DO = 5.6.

Station W3

Sediment Oxygen Data, August 1988

Hours Into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 12 Inches Sediment 12 Inches
Before		3.20	3.50	Core 2:
0.00	17.00	4.60	3.90	Water Column 11 Inches
0.50	17.30	4.20	3.90	Sediment 12.5 Inches
1.00	18.00	4.20	4.00	
2.00	19.00	4.60	4.20	Comments
4.00	21.00	4.60	4.40	
8.00	1.00	4.70	4.60	Depth 18 ft.
16.00	9.00	3.20	3.60	Temp. 32 C
24.00	17.00	2.10	2.80	

Station W5

Sediment Oxygen Data, August 1988

Hours Into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 11 Inches Sediment 12 Inches
Before	13.30	4.50	4.50	Core 2:
0.00	15.30	4.10	4.40	Water Column 11.5 Inches
0.50	16.00	3.60	4.20	Sediment 11 Inches
1.00	16.30	3.40	4.20	
2.00	17.30	3.40	4.20	Comments
4.00	19.30	3.40	4.10	
8.00	23.30	3.40	3.80	Depth 6.5 ft.
16.00	7.30	3.00	3.20	Temp. 32 C
24.00	15.30	2.40	1.80	

**Station W6
Sediment Oxygen Data, August 1988**

Hours Into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 13 Inches Sediment 11 Inches
Before	13.30			Core 2: Water Column 13.5 Inches Sediment 11 Inches
0.00	16.00	13.10	12.10	
0.50	16.30	12.40	11.60	
1.00	17.00	11.40	11.00	
2.00	18.00	10.80	10.00	Comments
4.00	20.00	9.60	9.20	
8.00	24.00	7.10	7.20	Depth 4-6 ft.
16.00	8.00	3.40	4.60	Temp. 31 C
24.00	16.00	2.20	2.60	

Nutrient Data for Bottom Sediment from the SOD Stations, August 16 1988.
All Data except pH in mg/l.

Station	pH	CBOD-5	TKN	NH3	NO2	NO3	T-PO4	O-PO4
W1 NBW	7.10	1.76	0.80	0.63	0.21	0.62	0.35	0.20
W2 NBW	7.10	1.63	0.76	0.35	0.35	0.40	0.47	0.33
W3 NBW	7.20	1.24	4.39	4.37	0.68	0.69	1.44	1.17
W5 NBW	7.20	3.72	4.39	4.37	0.68	0.05U	1.44	1.17
W6 NBW	8.10	3.60	4.31	1.16	2.08	1.87	1.16	0.22
W1 OLW	7.10	1.83	1.23	1.08	0.24	0.64	0.45	0.22
W2 OLW	7.10	1.72	1.23	0.92	0.32	0.41	0.48	0.35
W3 OLW	7.20	1.31	4.94	4.90	0.62	0.67	1.45	1.19
W5 OLW	7.10	4.15	4.94	4.90	0.62	0.07	1.45	1.19
W6 OLW	8.30	3.85	4.06	0.68	1.78	1.76	1.16	0.18
W1 OLW(FINAL)	6.70	2.57	0.81	0.24	0.18	0.70	0.46	0.32
W2 OLW(FINAL)	6.80	3.41	1.47	0.45	0.06	0.63	0.42	0.32
W3 OLW(FINAL)	6.90	2.97	4.51	3.31	0.40	0.84	0.95	0.91
W5 OLW(FINAL)	7.10	3.94	5.30	4.85	0.04	0.12	1.48	1.35
W6 OLW(FINAL)	6.90	4.22	1.54	0.74	1.56	2.12	0.58	0.16
W2 Core 2(DO<2)	6.90	3.21	0.75	0.15	0.05U	0.59	0.46	0.32

Sediment Oxygen Demand Data

September 29, 1988

Station W1

Sediment Oxygen Data, September 1988

Hours Into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 10 Inches Sediment 10 Inches
Before	16.30			Core 2:
0.00	19.00	7.20	7.20	Water Column 8 Inches
0.50	19.30	7.30	7.60	Sediment 12 Inches
1.00	20.00	7.40	7.60	
2.00	21.00	7.00	7.40	Comments
4.00	23.00	6.60	6.80	
8.00	3.00	7.00	6.30	Depth 25 ft.
16.00	11.00	5.20	5.20	Temp. 20 C
24.00	19.00	4.60	4.00	

Station W2

Sediment Oxygen Data, September 1988

Hours Into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 12 Inches Sediment 8 Inches
Before	17.46	5.20	5.00	Core 2: Water Column 12 Inches Sediment 8 Inches
0.00	19.00	6.60	6.90	
0.50	19.30	6.90	7.20	
1.00	20.00	6.40	7.50	
2.00	21.00	6.80	7.40	Comments
4.00	23.00	6.60	7.60	
8.00	3.00	6.60	7.40	Depth 20 ft.
16.00	11.00	5.80	7.30	Temp. 20 C
24.00	19.00	3.60	6.00	

Station W3

Sediment Oxygen Data, September 1988

Hours Into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 11.5 Inches Sediment 8.5 Inches
Before	13.53	4.80	4.40	Core 2: Water Column 11.5 Inches Sediment 8.5 Inches
0.00	15.45	5.20	4.80	
0.50	16.15	6.00	5.80	
1.00	16.45	6.20	5.80	
2.00	17.45	6.20	6.20	Comments
4.00	19.45	6.40	6.30	
8.00	23.45	5.80	5.80	Depth 25 ft.
16.00	7.45	5.40	5.60	Temp. 20 C
24.00	15.45	5.00	5.60	

**Station W5
Sediment Oxygen Data, September 1988**

Hours Into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 12 Inches Sediment 8.5 Inches
Before	11.54	2.50	2.50	Core 2: Water Column 10.25 Inches Sediment 10 Inches
0.00	13.30	3.80	3.80	
0.50	14.00	3.50	3.80	
1.00	14.30	3.40	4.00	
2.00	15.30	4.00	4.00	Comments
4.00	17.30	3.60	4.20	
8.00	21.30	3.60	3.90	Depth 20 ft.
16.00	5.30	4.20	3.80	Temp. 21.5 C
24.00	13.30	3.80	3.10	

Station W6

Sediment Oxygen Data, September 1988

Hours Into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 12 Inches Sediment 8 Inches
Before	19.30	9.50	9.10	Core 2:
0.00	20.30	10.40	10.00	Water Column 36 Inches
0.50	21.00	10.00	9.80	Sediment 7 Inches
1.00	21.30	9.90	9.70	
2.00	22.30	9.60	9.40	Comments
4.00	0.30	9.20	9.20	
8.00	8.30	8.00	7.60	Depth 3 ft.
16.00	16.30	5.00	5.50	Temp. 18 C
24.00	20.30	4.80	5.00	

Nutrient Data for Bottom Sediment from the SOD Stations, September 29 1988.
All data except pH in mg/l.

Station	pH	CBOD-5	TKN	NH3	NO2	NO3	T-PO4	O-PO4
W1 NBW	6.9	1.00U	1.62	0.92	0.25	0.61	0.23	***
W2 NBW	7.4	1.90	2.70	1.80	0.60	0.67	0.37	***
W3 NBW	7.3	1.70	1.96	1.30	0.43	0.78	0.21	***
W5 NBW	7.4	2.60	6.90	4.52	0.95	0.47	0.49	***
W6 NBW	7.5	5.40	2.91	0.63	1.07	0.87	0.25	***
W1 OLW	7.1	4.53	0.90	0.62	0.23	0.54	0.12	***
W2 OLW	7.0	4.68	4.53	1.55	0.56	***	0.15	***
W3 OLW	6.8	4.80	2.03	1.16	0.42	0.65	0.17	***
W5 OLW	6.7	8.85	10.10	4.76	0.49	1.21	0.31	***
W6 OLW	6.8	8.98	3.08	0.77	0.97	0.84	0.10U	***
W1 OLW(FINAL)	7.0	7.42	1.16	0.73	0.19	0.30	0.22	***
W2 OLW(FINAL)	7.0	8.80	2.85	1.47	0.55	0.53	0.10U	***
W3 OLW(FINAL)	7.0	8.48	2.16	1.69	0.30	0.48	0.10U	***
W5 OLW(FINAL)	7.0	10.50	11.80	5.22	0.56	***	0.10U	***
W6 OLW(FINAL)	7.0	9.62	1.19	0.65	0.84	0.80	0.10U	***

*** Sample lost due to analyst error.

Sediment Oxygen Demand Data

October 29, 1988

Station W1

Sediment Oxygen Data, October 1988

Hours Into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 10 Inches Sediment 10 Inches
Before	15.30	9.00	8.40	Core 2:
0.00	18.30	9.00	8.40	Water Column 11 Inches
0.50	19.00	9.20	8.60	Sediment 9 Inches
1.00	19.30	9.20	8.60	
2.00	20.30	9.20	8.70	Comments
4.00	22.30	9.20	8.60	
8.00	2.30	9.20	8.90	Depth 11 ft.
16.00	10.30	9.20	9.40	Temp. 13 C
24.00	18.30	9.20	9.60	

Station W2

Sediment Oxygen Data, October 1988

Hours Into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 13 Inches Sediment 7 Inches
Before	16.45	8.40	8.40	Core 2:
0.00	18.30	8.40	8.40	Water Column 13 Inches
0.50	19.00	8.40	8.60	Sediment 7 Inches
1.00	19.30	8.40	8.40	
2.00	20.30	8.50	8.40	Comments
4.00	22.30	8.40	8.50	
8.00	2.30	8.40	8.70	Depth 22 ft.
16.00	10.30	9.00	9.00	Temp. 12 C
24.00	18.30	9.20	9.20	

Sediment Oxygen Demand Data
Tributary Study
November 16, 1988

Station W3
Sediment Oxygen Data, October 1988

Hours Into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 13 Inches Sediment 7 Inches
Before	11.41	8.00	7.90	Core 2: Water Column 8 Inches Sediment 12 Inches
0.00	14.00	8.00	7.90	
0.50	14.30	8.40	7.90	
1.00	15.00	8.30	7.80	
2.00	16.00	8.40	7.80	Comments
4.00	18.00	8.60	7.60	
8.00	22.00	8.60	7.60	Depth 23 ft.
16.00	6.00	8.60	7.60	Temp. 13 C
24.00	14.00	9.50	8.70	

Station W5

Sediment Oxygen Data, October 1988

Hours Into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 10 Inches Sediment 10 Inches
Before				Core 2: Water Column 10 Inches Sediment 12 Inches
0.00	14.00	6.80	6.80	
0.50	14.30	6.40	6.40	
1.00	15.00	6.40	6.40	
2.00	16.00	6.40	6.40	
4.00	18.00	6.20	6.20	Comments
8.00	22.00	6.00	6.00	Depth 7 ft.
16.00	6.00	5.80	5.80	Temp. 13 C
24.00	14.00	5.50	5.50	

Station S2A
Sediment Oxygen Demand Nutrient Data, November 1988

Parameter	Overlying Water (Start)	Near Bottom Water	Overlying Water (DO < 2)	Overlying Water (Final)
pH	7.370	7.300		7.330
CBOD5	5.080	2.200		4.020
TKN	2.120	1.990		***
NH3	2.060	2.060		1.660
NO2	0.430	0.300		0.460
NO3	0.980	0.920		1.530
T-Phos.	0.300	0.460		0.280
O-Phos	0.200	0.220		0.170

*** Sample lost due to analyst error.

Station S3

Sediment Oxygen Data, November, 1988

Hours into Analysis	Time	DO mg/l Core 1	DO mg/l Core 2	Core 1: Water Column 10 Inches Sediment 10 Inches
Before	9.15			Core 2:
0.00	11.30	7.00	7.40	Water Column 12 Inches
0.50	12.00	6.90	7.40	Sediment 8 Inches
1.00	12.30	6.90	7.20	
2.00	13.30	6.80	7.20	
4.00	15.30	6.80	7.20	Comments
8.00	19.30	6.80	7.20	
16.00	3.30	6.80	7.00	Depth 14 ft.
24.00	11.30	6.80	7.00	Temp. 14.1 C