2011 WATER QUALITY TABLE MEMPHIS LIGHT, GAS, AND WATER

	MEMPHIS LIGHT, GAS, AND WATER											
ANALYTES	MAXIMUM CONTAMINANT LEVEL	SHEAHAN STATION	ALLEN STATION	MCCORD STATION		LICHTERMAN STATION	DAVIS STATION	MORTON STATION	PALMER STATION	LNG PLANT	SHAW STATION	AVERAGE FOR ALL TREATMENT PLANTS
PRIMARY STANDARDS - MANDATORY HEALTH-RELATE	D STANDARDS											
CLARITY												
TURBIDITY (NTU)	2.0	0.20	0.22	0.26	0.58	0.19	0.27	0.25	0.15	0.14	0.35	0.28
MICROBIOLOGICAL	<i>(</i> -)	-4.0	-10	a4 0	-40	~1.0	~5.O	~1 O	~1.0	~1.0	<1.0	~10
TOTAL COLIFORM (Colonles/100 mL) FECAL COLIFORM (Colonles/100 mL)	(a) (a)	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0 <1.0
ORGANIC CHEMICALS (mg/L) PESTICIDES**												
ALACHLOR	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ATRAŽINE	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHLORDANE	0.002	ND	ND	ND	ND	ND ND	NO ND	ND ND	ND ND	ND ND	ND ND	ND ND
ENDRIN HEPTACHLOR	0.002 0.0004	ND ND	ND ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND
HEPTACHLOR EPOXIDE	0.0002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LINDANE	0.0002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
METHOXYCHLOR POLYCHLORINATED BIPHENYLS (PCB'S)	0.04	ON	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	0.0005	ON	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SIMAZINE	0.004	ND	ND	ND	ND	NO	ND ND	ND ND	ND ND	ND ND	ND NO	ND ND
TOXAPHENE SEMI-VOLATILE ORGANIC COMPOUNDS**	0.003	ND	ND	ND	ND	ND	ND	ND.	NO	ND	140	140
BENZO(a)-PYRENE	0.0002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DI(2-ETHYLHEXYL) ADIPATE	0.4	ND	ND	ND	МD	ND	ND	ND	ND	ND	ND	NÖ
DI(2-ETHYLHEXYL) PHTHALATE	0.006	ND	ND	ND		ND	ND	ND	ND	ND	ND	NO
HEXACHLOROBENZENE HEXACHLOROCYCLOPENTADIENE	0.001	ND	ND	ND	ND	ND	ND	ND	ND	NO	NO	NO
	0.05	ND	ND	ND	ND	ND	ND	ND	ND	NO	ND	ND
VOLATILE ORGANIC COMPOUNDS**	0.03	MD	(415	NO	140	RD	110	(ID	AD.	140	112	110
BENZENE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CARSON TETRACHLORIDE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROBENZENE	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	0.075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND	ON	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHYLENE	0.007	ND	ND	ND	DN	ND	ND	ND	ND	ND	ND	ND
CIS-1,2-DICHLOROETHYLENE	0.07	ND	ND	ND	GN	DN	ND	ND	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHYLENE	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DICHLOROMETHANE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ON	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ETHYLBENZENE	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MONOCHLOROBENZENE	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
STYRENE	0.1	ND	ND	ND	ON	ON	ND	ND	ON	ND	ND	ND
TETRACHLOROETHYLENE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOLUENE	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	0.2	ND	DN	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	DN	ND	ND	ND	ND	ND	ND		ND	ND
TRICHLOROETHYLENÉ	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	0.07	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND
VINYL CHLORIDE TOTAL XYLENES	0.002 10.0	ND ND	ND ND	ND ND	ND ND	ND ND	ND ON ON	ND ND 0.012	ND ND 0.011	ND ND 0.012	ND ND 0.001	ND ND 0.007
TOTAL TRIHALOMETHANES INORGANIC CHEMICALS (mg/L)**	0.080	0.005	0.012	0.003	0.004	0.006	KD	0.012	. 0.011	0.012	0.007	0.007
ALUMINUM	0.2	0.005	ND	ND	NO	ND	0.003	ND	ND	ND	0.003	0.004
	0.006	ND	ND	ND	ON	ND	ND	ND	ND	ND	QN	ND
ANTIMONY	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC		0.037	0.052	0.028	0.032	0.010	0.070	0.048	0.026	0.048	0.084	6,035
BARIUM BERYLLIUM CADMIEM	2.0 0.004 0.005	ND ND	ND ND	ND ND	ND NO	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
CHROMUM	0,1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COPPER ***	1,3*	0.05	0.06	ND	ND	ND	ND	ND	ND	0.07	ND	ND
LEAD	0.015*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MANGANESE	0.05	0.012	ND	0.004	ND	ND	ND	0.003	ND	0.012	0.001	0.006
MERCURY	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MOLYBDENUM	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NICKEL	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POTASSIUM	NS	0.51	0,57	0.63	0.53	0.39	0.79	0,78	0.82	0.79	0.44	0.63
SILVER	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SELENIUM	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
THALLIUM	0.002	ND	ND	ND	ND	ND	ND	DM	ND	ND	ND	ND
ZINC	6.00	ND	ND	ON	ON	ND	ND	DM	ND	ND	ND	ND
CHEMICAL PARAMETERS												
CHLORIDE (mg/L) COLOR** (units - PCS)	250	4.2	5.9	6.6	3.0	6.1	4.6	3.2	5.6	3.0	2.6	4.5
	15	3.0	1.0	4.0	2.0	3.0	1.0	3.0	1.0	2.0	2.0	2.2
CYANIDE** DETERGENTS ** - MBAS (mg/L)	0.2	Ю	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	0.5	ОИ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FLUORIDE (mg/l)	4.0	0.9	1.0	1.0	1.1	1.0	1.1	1.0	1.0	1.1	1.0	1.0
IRON (mg/L)	0.3	0.04	0.04	0.06	0.06	0.03	0.06	0.04	0.03	0.03	0.05	0.04
NITRATE (as Nitrogen)	10.0	0.10	ND	0.05	ND	0.55	0.26	ND	0.07	0.03	0.08	0.16
NITRITE (as Nitrogen)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ODOR** (TON) pH (units)	3.0	1.3	1.7	1.3	1.1	1.3	1.4	1.3	2.0	1.5	1.8	1.5
	6.5 - 8.5	7.2	7.3	7.2	7.3	7.1	7.5	7.4	7.1	7.1	7.0	7.2
SODIUM SPECIFIC CONDUCTANCE (umho/cm @ 25°C)	NS	6.8	9.0	8.7	7.6	7.3	7.6	5.8	8.9	6.5	5.6	6.1
	X900	135	159	172	144	114	237	142	104	98	81	138
SULFATE (mg/L) TOTAL DISSOLVED SOLIDS** (mg/L)	250	12.4	13.2	16.7	9.8	13.6	11.7	10.1	11.1	9.1	11.9	12.0
	500	56.4	89.7	68.3	72.9	61.7	128.5	65.2	52.0	43.5	33.8	66.2
ADDITIONAL PARAMETERS												
ALKALINITY as CeCO3(mg/L) CALCIUM (mg/L)	NS	46	68	48	64	37	118	62	41	35	24	54
	NS	6.8	10.7	7.0	9.5	5.6	21.0	11.3	5.1	5.3	2.2	6.5
HARDNESS as CaCO3 (mg/L)	NS	40	60	43	53	31	110	53	31	30	17	47
HARDNESS (grains/gal)	NS	2.3	3.5	2.5	3.1	1.6	6.4	3.1	1.8	1.8	1.0	2.7
MAGNESIUM	NS	5.6	8.1	8.2	7.1	4.1	14	6.0	4.4	4.1	2.8	6.2
PHENOLS" (mg/L)	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PHOSPHATE (mg/L)	NS	1.3	1.2	1,2	1.2	1.2	1.2	1.2	1,1	1.2	1.1	1.2
SILICA** (mg/L)	NS	13.0	10.2	11.5	11.0	13.1	13.5	11.8	11.2	9.8	10.5	11.8
TEMPERATURE (* F) TOTAL ORGANIC CARBON** (mg/L)	NS	64.9	65.5	64.9	66.4	65.7	64,6	65.8	64.4	62.5	65.1	65.0
	NS	0.383	0.495	0.398	0.476	0.339	0.636	0.421	0,290	0.289	0.205	0.393

KEY TO ABBREVIATIONS

NTU = Nephelometric Turbidity Units, a measure of the suspended material in water.

(a) ≈ No more than 5.0% of the monthly samples may be total-coliform positive.

< = Less Than

mg/L = Milligrams Per Liter (parts per million)

ND = Selow Method Detection Limit

* = Action Level. The Federal and State standards for lead and copper are freatment techniques requiring agencies to optimize corrosion control treatment, umholom = Micromhos per centilmetor

X = Recommended Level

NS = No Standard

PCS = Patinum-Coball Standard

TON = Threshold Cdor Number

"Sample arraiysis was not required in 2010. Shown is most recent data collected.

****Copper Data Submitted 2011