TABLE 12-7
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
SURFACE WATER - MARINE BASIN HIGH TIDE

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

Scenario Timeframe: Current/Future Land Use
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Marine Basin

CAS NUMBER	CHEMICAL	DETECTION FREQUENCY	RANGE OF DETECTION LIMITS MIN-MAX	MINIMUM (1) CONCENTRATION	MINIMUM QUALIFIER	MAXIMUM (1) CONCENTRATION	MAXIMUM QUALIFIER	SAMPLE ID OF MAXIMUM CONCENTRATION	AVERAGE (2) CONCENTRATION	UNITS	95% UCL	SCREENING TOXICITY VALUE (3) MG/L	BACKGROUND VALUE (4)	RETAIN AS COPC?	RATIONALE FOR CONTAMINANT DELETION (5)
Volatile Organics															
67-64-1	Acetone	1/ 4	.003 - .003	0.007	B	0.007	B	SWMB002H	0.00288	mg/L	NC	1.5	ND	NO	LTS
78-93-3	Methyl ethyl ketone	1/ 4	.002 - .002	0.005		0.005		SWMB002H	0.002	mg/L	NC	14	ND	NO	LTS
75-09-2	Methylene chloride	2/ 4	.0007 - .0007	0.001	B	0.001	B	SWMB002H	0.00068	mg/L	NC	NA	ND	NO	
Inorganics/Metals															
7429-90-5	Aluminum	4/ 4	0 - 0	0.135	B	0.275		SWMB001H	0.20625	mg/L	NC	0.087	0.2283	YES	
7440-36-0	Antimony	4/ 4	0 - 0	0.003	B	0.0064		SWMB003H	0.004625	mg/L	NC	0.03	0.00693	NO	LTS
7440-38-2	Arsenic	2/ 4	.0017 - .0017	0.0023	B	0.0029	B	SWMB003H	0.001725	mg/L	NC	0.036	0.00178	NO	LTS
7440-39-3	Barium	1/ 4	9.699999E-03 - .0122	0.0122	B	0.0122	B	SWMB002H	0.0072	mg/L	NC	0.004	ND	YES	
7440-70-2	Calcium	4/ 4	0 - 0	64	*	289	*	SWMB004H	182.075	mg/L	NC	NA	303.3	NO	EN
7440-47-3	Chromium	2/ 4	.0011 - .0017	0.0014	B	0.0014	B	SWMB002H	0.00105	mg/L	NC	0.011	ND	NO	LTS
7440-50-8	Copper	2/ 4	.0073 - .0074	0.0095	B	0.01		SWMB001H	0.00671	mg/L	NC	0.0024	ND	YES	
7439-89-6	Iron	4/ 4	0 - 0	0.0694	B	0.482		SWMB002H	0.27228	mg/L	NC	1	0.2476	NO	LTS
7439-92-1	Lead	2/ 4	.0011 - .0011	0.0019	B	0.0022	B	SWMB002H	0.0013	mg/L	NC	0.001	0.00073	YES	
7439-95-4	Magnesium	4/ 4	0 - 0	148	*	896	J	SWMB003H	542	mg/L	NC	NA	943	NO	EN
7439-96-5	Manganese	4/ 4	0 - 0	0.0132	B	0.113		SWMB002H	0.0652	mg/L	NC	0.12	0.01213	NO	LTS
22967-92-6	Methyl mercury	1/ 3	8E-08 - 8E-08	9.3E-08	J	9.3E-08	J	SWMB003H	5.767E-08	mg/L	NC	0.000012	ND	NO	LTS
7440-02-0	Nickel	2/ 4	.0025 - .0025	0.0029	B	0.0037	B	SWMB002H	0.002275	mg/L	NC	0.008118	ND	NO	LTS
7440-09-7	Potassium	4/ 4	0 - 0	51.8	*	388	J	SWMB004H	228.3	mg/L	NC	NA	406.3	NO	EN
7440-23-5	Sodium	4/ 4	0 - 0	1140	E	7310	J	SWMB003H	4417.5	mg/L	NC	NA	7653.3	NO	EN
7440-62-2	Vanadium	2/ 4	.0072 - .0075	0.006	B	0.0061	B	SWMB001H	0.00486	mg/L	NC	0.02	ND	NO	LTS
7440-66-6	Zinc	1/ 4	.0023 - .0023	0.0033	B	0.0033	B	SWMB002H	0.001688	mg/L	NC	0.0582	ND	NO	LTS
Metals, Dissolved															
7429-90-5	Aluminum	4/ 4	0 - 0	0.0755	B	0.41		SWMB003HD	0.20838	mg/L	NC	0.087	0.186	YES	
7440-36-0	Antimony	2/ 4	.003 - .003	0.0049	B	0.0083		SWMB003HD	0.00405	mg/L	NC	0.03	0.006	NO	LTS
7440-38-2	Arsenic	2/ 4	.0017 - .0017	0.0021	B	0.0032	B	SWMB004HD	0.00175	mg/L	NC	0.036	0.0022	NO	LTS
7440-39-3	Barium	1/ 4	9.699999E-03 - .0114	0.0099	B	0.0099	B	SWMB001HD	0.00651	mg/L	NC	0.004	ND	YES	
7440-70-2	Calcium	4/ 4	0 - 0	62.8	*	295	*	SWMB003HD	182.5	mg/L	NC	NA	308	NO	EN
7440-50-8	Copper	2/ 4	.0091 - .011	0.0059	B	0.0064	B	SWMB001HD	0.005588	mg/L	NC	0.0024	ND	YES	
7439-89-6	Iron	4/ 4	0 - 0	0.0519	B	0.61		SWMB003HD	0.2695	mg/L	NC	1	0.1547	NO	LTS
7439-92-1	Lead	3/ 4	.0011 - .0011	0.0011	B	0.0034		SWMB003HD	0.00164	mg/L	NC	0.001	0.0008	YES	
7439-95-4	Magnesium	4/ 4	0 - 0	156	*	915	J	SWMB003HD	547.25	mg/L	NC	NA	964	NO	EN
7439-96-5	Manganese	4/ 4	0 - 0	0.0231		0.0601		SWMB001HD	0.0406	mg/L	NC	0.12	0.0155	NO	LTS
7440-02-0	Nickel	2/ 4	.0026 - .0028	0.003	B	0.0031	B	SWMB002HD	0.0022	mg/L	NC	0.008118	ND	NO	LTS
7440-09-7	Potassium	4/ 4	0 - 0	56.9	*	397	J	SWMB003HD	230.8	mg/L	NC	NA	420.67	NO	EN
7440-23-5	Sodium	4/ 4	0 - 0	1220	E	7610	J	SWMB003HD	4527.5	mg/L	NC	NA	7853.3	NO	EN
7440-62-2	Vanadium	2/ 4	7.900001E-03 - .0083	0.0053	B	0.0055	B	SWMB001HD	0.0047	mg/L	NC	0.02	ND	NO	LTS
7440-66-6	Zinc	1/ 4	.0023 - .0023	0.0055	B	0.0055	B	SWMB003HD	0.00224	mg/L	NC	0.0582	ND	NO	LTS

(1) Minimum or maximum concentration detected in exposure area. Samples included in data set are provided in **Appendix T-1**.
(2) Average concentration is calculated using 1/2 the detection limit for non-detects.
(3) Lowest of screening toxicity values presented in Table 12-37.
(4) The background concentration shown here is equal to the average concentration from the high tide data set.
(5) LTS = less than screening toxicity value; EN = essential nutrient
J - estimated value

TABLE 12-7
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B - report value less than Contract Required Detection Limit but greater than or equal to the Instrument Detection Limit