

Site: Exxon Oil Pipeline Release
 Location: Mayflower, AR
 Collection Date: 4/22/2013
 Report Date: 5/2/2013
 Media: Surface Water Samples

		Dissolved Metals																		
Contaminant	Units	WS-017S	WS-017B	WS-016S	WS-016B	WS-015S	WS-015B	WS-014S	WS-014B	WS-013S	WS-013B	WS-011S	WS-011B	WS-012S	WS-012B	WS-010S	WS-018S	WS-018B	Eco Sls ⁽¹⁾	Drinking Water Sls ⁽²⁾
Aluminum	ug/L	40.8	46.3	45.1	48.6	43.5	48.7	42.1	41.7	38.6	42.8	68.1	74	92	94.9	175	67.6	60.6	5.0	16,000*
Antimony	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	30	6.0
Arsenic	ug/L	0.66	0.67	<0.5	0.51	0.55	0.54	0.51	<0.5	<0.5	<0.5	0.55	0.53	0.54	0.58	0.74	0.59	0.56	5.0	10
Barium	ug/L	10.6	10.7	10.1	10.2	10.6	10.7	11.2	11.4	11.7	12	11.4	11.5	12.3	12.7	14	12.2	12.4	3.9	2,000
Beryllium	ug/L	<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	0.53	4.0
Boron	ug/L	15.8	14.2	12	12.2	11.8	11.5	9.96	9.9	9.11	9.16	10.5	10.9	10.4	10.9	11.1	11.2	11.7	1.6	3,100
Cadmium	ug/L	<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	0.017	5.0
Calcium	mg/L	3.79	3.69	3.08	3.1	3.09	3.15	2.64	2.73	2.45	2.45	2.93	2.94	2.91	2.98	3.04	3	2.94	116	NA
Chromium	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.0	100
Cobalt	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.0	4.7*
Copper	ug/L	1.04	1.05	0.78	0.71	1.21	0.7	0.65	0.77	0.62	0.56	0.75	0.78	0.78	0.75	0.84	0.79	0.8	0.23	1300
Iron	ug/L	208	243	176	177	172	186	170	172	197	201	191	190	236	240	355	183	175	158	11,000*
Lead	ug/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	1.0	15
Magnesium	mg/L	1.54	1.56	1.41	1.38	1.38	1.37	1.27	1.26	1.25	1.22	1.3	1.29	1.28	1.29	1.31	1.31	1.33	82	NA
Manganese	ug/L	17.9	15.8	25.1	24.9	41.3	33.8	33.1	33	35.2	33.3	57.9	56.3	125	146	246	68	67.9	80	320*
Nickel	ug/L	1.3	1.35	0.92	0.92	0.9	0.95	0.81	0.86	0.81	0.78	0.86	0.85	0.87	0.91	0.99	0.87	0.92	25	300*
Potassium	mg/L	2.1	2.08	1.89	1.86	1.88	1.94	1.68	1.72	1.54	1.58	1.85	1.84	1.82	1.85	1.86	1.88	1.9	53	NA
Selenium	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.0	50
Silicon Dioxide	mg/L	1.18	1.33	0.688	0.626	0.83	1.02	1.27	1.35	1.48	1.53	1.04	1.12	1.51	1.53	1.96	0.968	0.884	NA	NA
Silver	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.12	71*
Sodium	mg/L	5.66	5.75	4.74	4.73	4.53	4.51	3.56	3.58	3.2	3.22	4	3.97	3.96	4.02	4.22	4.14	4.18	680	NA
Thallium	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	2.0
Vanadium	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	19	78*
Zinc	ug/L	2.4	2.05	2.54	2.66	2.45	4.37	4.68	3.99	4.21	5.29	2	2.21	2.42	2.93	4.41	2.46	3.75	30	4,700*

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		Total Metals																	Drinking Water Sls ⁽²⁾	
Contaminant	Units	WS-017S	WS-017B	WS-016S	WS-016B	WS-015S	WS-015B	WS-014S	WS-014B	WS-013S	WS-013B	WS-011S	WS-011B	WS-012S	WS-012B	WS-010S	WS-018S	WS-018B	Eco Sls ⁽¹⁾	Drinking Water Sls ⁽²⁾
Aluminum	ug/L	188	189	102	175	121	117	113	108	119	127	268	226	468	539	808	340	286	5.0	16,000*
Antimony	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	30	6.0
Arsenic	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.11	<1	<1	5.0	10
Barium	ug/L	14.3	14	13.4	13.8	13.6	13.8	14	14.1	14.4	14.5	16.3	16.1	18	18.8	22.7	16.8	17.6	3.9	2,000
Beryllium	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.53	4.0
Boron	ug/L	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	1.6	3,100
Cadmium	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.017	5.0
Calcium	mg/L	3.8	3.8	3.15	3.13	3.18	3.13	2.7	2.68	2.49	2.5	3.03	2.97	3.06	3.1	3.23	3.13	3.16	116	NA
Chromium	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.0	100
Cobalt	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.0	4.7*
Copper	ug/L	1.46	1.34	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.06	1.08	1.26	1.13	<1	0.23	1,300
Iron	ug/L	714	703	542	659	514	533	459	494	496	490	576	549	789	842	1190	564	639	158	11,000*
Lead	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.08	<1	<1	1.0	15
Magnesium	mg/L	1.7	1.68	1.46	1.5	1.5	1.46	1.34	1.37	1.32	1.3	1.43	1.4	1.42	1.39	1.45	1.43	1.45	82	NA
Manganese	ug/L	114	109	116	122	121	121	117	124	103	102	161	155	218	237	349	163	196	80	320*
Nickel	ug/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	25	300*
Potassium	mg/L	2.12	2.11	1.87	1.85	1.89	1.86	1.66	1.64	1.52	1.53	1.86	1.84	1.88	1.9	1.92	1.92	1.9	53	NA
Selenium	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	1.0	50
Silver	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.12	71*
Sodium	mg/L	5.11	5.09	4.05	4.08	3.94	3.95	3.15	3.15	2.84	2.85	3.53	3.44	3.43	3.41	3.59	3.57	3.62	680	NA
Thallium	ug/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	0.8	2.0
Vanadium	ug/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	19	78*
Zinc	ug/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	3.56	<3	3.52	30	4,700*

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Oil & Grease																				
Contaminant	Units	WS-017S	WS-017B	WS-016S	WS-016B	WS-015S	WS-015B	WS-014S	WS-014B	WS-013S	WS-013B	WS-011S	WS-011B	WS-012S	WS-012B	WS-010S	WS-018S	WS-018B	Eco SLs ⁽¹⁾	Drinking Water SLs ⁽²⁾
Oil & Grease	mg/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	0.00001	NA

Volatile Organic Compounds (VOCs)																				
Contaminant	Units	WS-017S	WS-017B	WS-016S	WS-016B	WS-015S	WS-015B	WS-014S	WS-014B	WS-013S	WS-013B	WS-011S	WS-011B	WS-012S	WS-012B	WS-010S	WS-018S	WS-018B	Eco SLs ⁽¹⁾	Drinking Water SLs ⁽²⁾
Benzene	ug/L	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	46	5.0
Toluene	ug/L	<0.57	<0.57	0.686	0.6	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	0.58	<0.57	2.0	1,000
Ethylbenzene	ug/L	<0.51	<0.51	0.54	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	0.511	<0.51	0.542	0.525	0.514	0.526	7.3	700

(1) Savannah River National Laboratory - Ecological Screening Values for Surface Water (2005)

(2) Regional Screening Level Summary Table November 2012

*MCL unavailable, tapwater screening level used

Exceeds Ecological Screening Level

Exceeds Regional Screening Level

Exceeds Ecological & Regional Screening Level