

Site: Exxon Oil Pipeline Release
Location: Mayflower, AR
Collection Date: 4/17/2013
Report Date: 4/19/2013
Media: Surface Water Samples

Dissolved Metals

Contaminant	Units	WS-018S	WS-018B	WS-019	Eco SLs ⁽¹⁾	Drinking Water SLs ⁽²⁾
Aluminum	ug/L	48.4	40.4	401	5.0	16000*
Antimony	ug/L	<5.0	<5	<5	30	6.0
Arsenic	ug/L	0.79	0.71	3.12	5.0	10
Barium	ug/L	18.2	16.9	61.6	3.9	2000
Beryllium	ug/L	<0.1	<0.1	<0.1	0.53	4.0
Boron	ug/L	12.1	12.5	12.9	1.6	3100
Cadmium	ug/L	<0.1	<0.1	<0.1	0.017	5.0
Calcium	mg/L	12.1	11.8	9.04	116	NA
Chromium	ug/L	<0.5	<0.5	0.64	2.0	100
Cobalt	ug/L	<0.5	<0.5	1.88	3.0	4.7*
Copper	ug/L	0.82	0.87	1.7	0.23	1300
Iron	ug/L	177	168	461	158	11000*
Lead	ug/L	<0.3	<0.3	0.74	1.0	15
Magnesium	mg/L	1.67	1.59	2.48	82	NA
Manganese	ug/L	273	211	1630	80	320*
Nickel	ug/L	1.01	0.92	2.74	25	300*
Potassium	mg/L	1.87	1.8	4.35	53	NA
Selenium	ug/L	<1.0	<1	<1	1.0	50
Silicon Dioxide	mg/L	2.2	2.17	5.68	NA	NA
Silver	ug/L	<0.5	<0.5	<0.5	0.12	71*
Sodium	mg/L	4.79	4.82	2.68	680	NA
Thallium	ug/L	<0.5	<0.5	<0.5	0.8	2.0
Vanadium	ug/L	<0.5	<0.5	1.42	19	78*
Zinc	ug/L	9.73	3.61	18.2	30	4700*

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Total Metals

Contaminant	Units	WS-018S	WS-018B	WS-019	Eco SLs ⁽¹⁾	Drinking Water SLs ⁽²⁾
Aluminum	ug/L	246	314	2830	5.0	16000*
Antimony	ug/L	<10	<10	<10	30	6.0
Arsenic	ug/L	1.07	1.02	4.53	5.0	10
Barium	ug/L	23.8	22.5	501	3.9	2000
Beryllium	ug/L	<0.5	<0.5	0.8	0.53	4.0
Boron	ug/L	<25	<25	<25	1.6	3100
Cadmium	ug/L	<1	<1	1.34	0.017	5.0
Calcium	mg/L	10.8	13.8	26.6	116	NA
Chromium	ug/L	<1	<1	2.26	2.0	100
Cobalt	ug/L	<1	<1	11.8	3.0	4.7*
Copper	ug/L	1.2	1.13	11.3	0.23	1300
Iron	ug/L	688	717	3900	158	11000*
Lead	ug/L	<1	<1	14	1.0	15
Magnesium	mg/L	1.82	1.72	4.09	82	NA
Manganese	ug/L	379	345	9120	80	320*
Nickel	ug/L	<2.5	<2.5	19.9	25	300*
Potassium	mg/L	2	1.93	5.06	53	NA
Selenium	ug/L	<2	<2	<2	1.0	50
Silver	ug/L	<5	<5	<5	0.12	71*
Sodium	mg/L	5.03	5.02	2.73	680	NA
Thallium	ug/L	<2.5	<2.5	<2.5	0.8	2.0
Vanadium	ug/L	<2.5	<2.5	5.88	19	78*
Zinc	ug/L	4.13	4.68	118	30	4700*

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Oil & Grease

Contaminant	Units	WS-018S	WS-018B	WS-019	Eco SLs ⁽¹⁾	Drinking Water SLs ⁽²⁾
Oil & Grease	mg/L	<2.5	<2.5	<2.5	0.00001	NA

Semi-Volatile Organic Compounds (SVOCs)

Contaminant	Units	WS-018S	WS-018B	WS-019	Eco SLs ⁽¹⁾	Drinking Water SLs ⁽²⁾
Di-n-butyl phthalate	ug/L	<0.2	<0.2	0.442	9.4	670*

Volatile Organic Compounds (VOCs)

Contaminant	Units	WS-018S	WS-018B	WS-019	Eco SLs ⁽¹⁾	Drinking Water SLs ⁽²⁾
Styrene	ug/L	<0.53	<0.53	1.04	72	100

(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