WATER-QUALITY TYPICAL OF COAL-MINE DRAINAGES IN THE STATE OF WASHINGTON COMPARED TO LANDSBURG MINE WATER QUALITY

SELECTED CONSTITUENTS[c]	USGS Study[a]					Landsburg Phase I RI Study			
	Mean	Standard Deviation	Min	Max	Number of Samples	Mean	Standard Deviation	Min	Max
ALUMINUM	19	17	ND	50	17	34.7	49	<20	180
ARSENIC	2	5	ND	18	16	1.1	0.9	<1	4
CALCIUM	45000	40000	12000	180000	18	76870	38800	28800	142000
IRON	2300	6400	ND	39000	44	1009	1022	60	5500
LEAD	3	2	ND	10	17	0.6	0.3	<1.0	2
MAGNESIUM	19000	21000	1600	90000	18	47000	24730	14600	87500
MANGANESE	140	140	8	500	16	204	245	23	1510
MERCURY	ND	-	ND	0.1	17	<0.1	0.0	<0.1	<0.1
POTASSIUM	2500	2100	200	8000	17	3053	1126	1000	5600
SODIUM	82000	116000	1500	450000	18	24610	17100	4300	72000
SULFATE	78000	1270000	3500	520000	29	39340	34840	3500	138000
pH	7	0.5	5.6	8.4	50	7.00	0.28	6.40	7.62
HARDNESS	189000	184000	37000	820000	18	416000	208000	191000	715000
BICARBONATE	245000	270000	14000	1340000	30	401360	209780	121000	740000

[a]Fuste et al. 1983. All results reported as "Dissolved", except for iron which is "Total".

[b]Based on results from wells LMW-1 thru LMW-7, and surface water samples collected from portals #2 and #3.

[c]Selected constituents reported in Fuste et al. 1983.

All units in μg/L, except pH.