U.S. EPA Humboldt Mill Site Investigation

Private Well Sample Analtyical Results

3/21/2012 and 3/22/2012

Analyte	MCLG (µg/L)	MCL (µg/L)	HMDW-007-02A	HMDW-007-02B	HMDW-001-02A	HMDW-001-02B	HMDW-002-02A	HMDW-002-02B	HMDW-003-02A	HMDW-003-02B	HMDW-004-02A	HMDW-004-02B	HMDW-005A-02A	HMDW-005A-02B	HMDW-005B-02A	HMDW-005B-02B	HMDW-006-02A	HMDW-006-02B	HMDW-008-02A	HMDW-008-02B	HMDW-009-02A	HMDW-009-02B	HMDW-010-02A	HMDW-010-02B	HMDW-014-02A	HMDW-015-02A
SampleType			Background	Background	HMDW-001	HMDW-002	HMDW-002	HMDW-003	HMDW-003	HMDW-004	HMDW-004	HMDW-004	HMDW-005A	HMDW-005A	HMDW-005B	HMDW-005B	HMDW-006	HMDW-006	HMDW-008	HMDW-008	HMDW-009	HMDW-009	HMDW-010	HMDW-010	HMDW-009	HMDW-004
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Metals (ug/L)																										
Aluminum			20 U	34.3 J	20 U	26.7 J	31.6 J	27.3 J	20 U	27.5 J	22.7 J	28.1 J	221	78.6 J	201	61.1 J	20 U	20 U	32.3 J	20 U	20 U	20 U	20 U	22.8 J		33 J
Antimony			0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.124 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U		0.05 U
Arsenic*		10	9.19	9.12	0.828 J	0.803 J	**29.1**	**28.4**	1.14	0.439 J	0.973 J	1.1	0.3 U	0.434 J	0.3 U	0.32 J	0.941 J	0.631 J	0.374 J	0.3 U	0.59 J	0.628 J	**20.5**	**19.6**		1.14 J
Barium	2000	2000	19.7 J	19.2 J	5.3 J	5.2 J	132 J	129 J	2.7 J	2.6 J	2.5 J	2.5 J	13.1 J	13 J	29.6 J	16.3 J	8.6 J	8.4 J	5.3 J	5.6 J	8.6 J	8.4 J	7.1 J	7.1 J		2.5 J
Beryllium	4	4	0.5 U	1 U	0.5 U	1 U	0.5 U	1 U	0.5 U	1 U	0.5 U	1 U	0.5 U	1 U	0.5 U	1 U	0.5 U	1 U	0.5 U	1 U	0.5 U	1 U	0.5 U	1 U		0.5 U
Cadmium	5	5	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.071 J	0.05 J	0.103 J	0.071 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U		0.05 U
Calcium			24400	24500	25500	25600	71800	71400	4270 J	4310 J	13900	13700	4900 J	4820 J	8090	5400	18800	18900	36300	36200	47700	46300	10300	10300		14000
Chromium	100	100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 J	1 J	1 U	1 J		1 U
Cobalt			1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.8 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		1 U
Copper	1300	1300	1 U	1 U	2 J	1 U	2.1 J	1 U	**1540**	**1700**	72.6	73.7	343	239	296	201	4.1 J	3.4 J	53.7	56.5	37.2	34.9	1 U	1 U		72.4
Iron			257	210	1180	840	27800	27300	271	28.3 J	51.4 J	35.9 J	408	371	7710	1390	57.3 J	30 U	25.9 J	30 U	20 U	30 U	4940	4900		56.2 J
Lead	zero	15	0.057	0.05 U	0.479	0.052	0.05 U	0.05 U	2.97	2.43	0.088	0.078	4.24	2.07	**35.8**	1.24	0.089	0.05 U	0.417	0.468	1.33	1.13	0.086	0.05 U		0.094
Magnesium			7910	8020	11000	10800	21400	21100	1410 J	1390 J	4220 J	4190 J	1570 J	1540 J	2990 J	1760 J	6650	6570	7110	7100	12800	12600	4430 J	4440 J		4260 J
Manganese			119	120	40.4	39.7	2560	2510	3.1 J	3.1 J	5.5 J	5.6 J	55.6	52.9	278	95.2	0.9	0.7 J	1.6 J	1.4 J	6.5 J	6.8 J	126	125		5.4 J
Mercury	2	2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U		0.2 U
Nickel			2 U	2 U	2 U	2 U	2 U	2 U	2.6 J	3.5 J	2 U	2 U	2.3 J	2.8 J	3.4 J	2.5 J	2	2 U	3.8 J	4.6 J	6 J	5.1 J	2 U	2 U		2 U
Potassium			1640 J	1660 J	2250 J	2210 J	6320	6180	954 J	979 J	1650 J	1670 J	831 J	822 J	1300 J	874 J	1280	1270 J	1650 J	1620 J	5050	5010	1430 J	1420 J		1680 J
Selenium	50	50	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.217 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.233	0.2 U	0.229 J	0.312 J	0.599 J	0.581 J	0.2 U	0.2 U		0.2 U
Silver			1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U		1 U
Sodium			2030 J	2070 J	1320 J	1310 J	67000	66100	1240 J	1220 J	1930 J	1890 J	4380 J	4290 J	9850	5220	1820	1850 J	11100	11000	8270	8170	1200 J	1190 J		1930 J
Thallium*	0.5	2	0.126 J	0.295 J	0.571 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.139	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.576 J		0.05 U
Zinc			5 U	5 U	109	93.6	20.2 J	14.9 J	131	160	5 U	5 U	13.5 J	9.5 J	46.2 J	25 J	21	18.2 J	7.2 J	13.1 J	26.7 J	27.5 J	139	151		5 U
SVOCs (ug/L)																										
1,2,4-Trichlorobenzene																					0.8 U				0.9 U	
1,2-Dichlorobenzene																					1 U				1 U	
1,3-Dichlorobenzene																					1.1 U				1.1 U	
1,4-Dichlorobenzene																					0.9 U				1 U	
2,4,5-Trichlorophenol																					0.8 U				0.9 U	
2,4,6-Tribromophenol																					39.9				45.8	
2,4,6-Trichlorophenol																					0.7 U				0.7 U	
2,4-Dichlorophenol																					1 U				1 U	
2,4-Dimethylphenol																					3.3 U				3.3 U	
2,4-Dinitrophenol																					0.8 U				0.9 U	
2,4-Dinitrotoluene																					1 U				1 U	
2,6-Dinitrotoluene																					0.8 U				0.9 U	
2-Chloronaphthalene																					0.8 U				0.9 U	
2-Chlorophenol																					0.9 U				1 U	
2-Fluorobiphenyl																					32				39.5	
2-Fluorophenol																					31.5				41.6	
2-Methylnaphthalene																					0.7 U				0.7 U	
2-Methylphenol																					1.2 U				1.2 U	
2-Nitroaniline																					0.8 U				0.9 U	
2-Nitrophenol																					0.9 U				1 U	
3 & 4-Methylphenol																					1.6 U				1.6 U	
3,3'-Dichlorobenzidine																					2.1 U				2.1 U	
3-Nitroaniline																					1.3 U				1.3 U	
4,6-Dinitro-2-methylphenol																					1 U				1 U	
4-Bromophenyl phenyl ether																					0.7 U				0.7 U	
4-Chloro-3-methylphenol																					0.7 U				0.7 U	
4-Chloroaniline																					0.9 U				1 U	
4-Chlorophenyl phenyl ether																					0.7 U				0.7 U	
4-Nitroaniline																					1.7 U				1.7 U	
4-Nitrophenol																					1.4 U				1.4 U	
Acenaphthene																					0.7 U				0.7 U	
Acenaphthylene																					0.7 U				0.7 U	
Aniline-d5																					27.2				30	
Anthracene																					0.9 U				1 U	
Benzo (a) anthracene																					1.1 U				1.1 U	
Benzo (a) pyrene																					1.7 U				1.7 U	
Benzo (b) fluoranthene																					1.7 U				1.7 U	
Benzo (g,h,i) perylene																					1.2 U				1.2 U	
Benzo (k) fluoranthene																					2.3 U				2.3 U	
Bis(2-chloroethoxy)methane																					0.8 U				0.8 U	
Bis(2-chloroethyl)ether																					0.9 U				1 U	
Bis(2-chloroisopropyl)ether																					0.8 U				0.8 U	
Bis(2-ethylhexyl)phthalate																					4.3 U,J				4.4 U,J	
Butyl benzyl phthalate																					1.5 U				1.5 U	
Carbazole																					1.1 U				1.1 U	
Chrysene																					1.3 U				1.3 U	
Dibenz (a,h) anthracene																					1.6 U				1.6 U	
Dibenzofuran																					0.6 U				0.6 U	
Diethyl phthalate																					1 U				1 U	
Dimethyl phthalate																					0.8 U				0.8 U	
Di-n-butyl phthalate																					1.4 U				1.4 U	
Di-n-octyl phthalate																					1.6 U,J				1.6 U,J	
Fluoranthene																					0.9 U				1 U	
Fluorene																					0.7 U				0.7 U	
Hexachlorobenzene																					0.8 U				0.8 U	
Hexachlorobutadiene																					1.4 U				1.4 U	
Hexachlorocyclopentadiene																					0.8 U,J				0.9 U,J	
Hexachloroethane																					1.2 U				1.2 U	
Indeno (1,2,3-cd) pyrene																					1.5 U				1.5 U	
Isophorone																					0.8 U				0.8 U	
Naphthalene																					0.8 U				0.8 U	
Nitrobenzene																					0.8 U				0.8 U	
Nitrobenzene-d5																					32.2				39.7	
N-Nitrosodi-n-propylamine																					0.8 U				0.8 U	
N-Nitrosodiphenylamine																					1.1 U,J				1.1 U,J	
Pentachlorophenol																					1.1 U				1.1 U	
Phenanthrene																					0.8 U				0.9 U	
Phenol																					1 U				1 U	
Phenol-d5																					33.8				41.9	
Pyrene																					1.5 U				1.5 U	
Pyridine-d5																					40.6				44.1	
Terphenyl-dl4																					48.3				49	

Note: