

Table 3. Mercury and methylmercury concentrations in dredge tailings and sediment samples

Field site	Subsamples	Material sampled	Sample size fraction	Total Hg, ng/g by CVAAS*	Total Hg, ng/g by CVAFS**	Methyl Hg, ng/g by CVAFS**
CC1	21CC01WAS	Poorly sorted gravel fill (dredge stacker tailings)	Bulk		134	0.588
	21CC01WBSF	Poorly sorted gravel fill (dredge stacker tailings)	<63mm		295	1.18
CC2	21CC02WBS	Pebbly organic mud	Bulk		24.9	0.639
	21CC02WASF	Pebbly organic mud	<63mm		190	2.07
	22CC02SBA	Organic mud	Bulk		102	0.780
	22CC02SB	Poorly sorted gravel	Bulk	30		
	22CC02SC	Poorly sorted gravel	>2mm	20		
	22CC02SF	Poorly sorted gravel	<2mm	50		
	23CC02SB	Organic mud	Bulk		18.1†	0.215††
CC3	21CC03SA	Poorly sorted gravel fill (dredge stacker tailings)	Bulk	90		
	21CC03WSAB	Poorly sorted gravel fill (dredge stacker tailings)	Bulk		109	0.225
	21CC03WSFB	Poorly sorted gravel fill (dredge stacker tailings)	<63mm		269	1.02
CC4	21CC04SA	Poorly sorted gravel fill (dredge stacker tailings)	Bulk	30		
CC5	21CC05S	Metamorphic rock pebble composite (from stacker tailings)	Bedrock	30		
CC6	21CC06S	Granitic rock pebble composite (from stacker tailings)	Bedrock	<10		
CC7	21CC07S	Poorly sorted gravel	Bulk	30		
	21CC07ASB	Poorly sorted gravel	Bulk		22.9	0.574
	21CC07B	Poorly sorted gravel	<63mm		275	3.00
CC8	21CC08SC	Poorly sorted gravel (placer tailings)	>2mm	20		
	21CC08SF1	Poorly sorted gravel (placer tailings)	<2mm	30		
	21CC08SF2	Poorly sorted gravel (placer tailings)	<2mm		60.1	0.387
CC9	21CC09S	Nomlaki Tuff	Bedrock	<10		
CC10	21CC10SB1	Poorly sorted gravel (placer tailings)	Bulk	70		
	21CC10SB2	Poorly sorted gravel (placer tailings)	Bulk		114	0.299
	22CC10SB	Poorly sorted gravel (placer tailings)	Bulk	110		
	22CC10SC	Poorly sorted gravel (placer tailings)	>2mm	90		
	22CC10SF	Poorly sorted gravel (placer tailings)	<2mm	150		
	22CC10SM	Poorly sorted gravel (placer tailings)	<2mm>63mm		163	0.068
	22CC10SFA	Poorly sorted gravel (placer tailings)	<63mm		326	<1.36
	23CC10SB	Poorly sorted gravel (placer tailings)	Bulk	100		
	23CC10SF	Poorly sorted gravel (placer tailings)	<2mm		64†	
	23CC10SM	Poorly sorted gravel (placer tailings)	<2mm>63mm		126	

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	23CC10SFA	Poorly sorted gravel (placer tailings)	<63mm		290	
CC11	21CC11SB1	Poorly sorted stream gravel	Bulk	40		
	21CC11SB2	Poorly sorted stream gravel	Bulk		118	0.699
	21CC11SC	Poorly sorted stream gravel	>2mm	30		
	21CC11SF	Poorly sorted stream gravel	<2mm	60		
	21CC11SVF	Poorly sorted stream gravel	<63mm		204	0.775
	22CC11SB	Poorly sorted stream gravel	Bulk	40		
	22CC11SC	Poorly sorted stream gravel	>2mm	20		
	22CC11SF	Poorly sorted stream gravel	<2mm	70		
	22CC11SM	Poorly sorted stream gravel	<2mm>63mm		41.9	0.032
	22CC11SFA	Poorly sorted stream gravel	<63mm		282	<2.50
	23CCC11SB	Poorly sorted stream gravel	Bulk	60		
23CCC11SM	Poorly sorted stream gravel	<2mm>63mm	90			
23CCC11SF	Poorly sorted stream gravel	<63mm		138.5†	0.861††	
CC12	21CC12B	Organic and iron-rich mud	Bulk		160	31.1
	22CC12SB	Organic and iron-rich mud	Bulk		452	6.3
	23CC12SB	Organic and iron-rich mud	Bulk		354†	8.30††
CC13	21CC13SB	Poorly sorted conglommerate, Tehama Fm.	Bulk	<10		
	21CC13SC	Poorly sorted conglommerate, Tehama Fm.	>2mm	<10		
	21CC13SF1	Poorly sorted conglommerate, Tehama Fm.	<2mm	<10		
	21CC13SF2	Poorly sorted conglommerate, Tehama Fm.	<2mm		2.89	<0.015
	21CC13ST	Nomlaki Tuff	Bedrock	<10		
CC14	21CC14SB	Poorly sorted gravel (dredge stacker tailings)	Bulk	50		
	21CC14SC	Poorly sorted gravel (dredge stacker tailings)	>2mm	30		
	21CC14SF1	Poorly sorted gravel (dredge stacker tailings)	<2mm	40		
	21CC14SF2	Poorly sorted gravel (dredge stacker tailings)	<2mm		51.0	0.064
CC15	21CC15CL1	Clay-silt (dredge sluice tailings)	Bulk	160		
	21CC15CL2	Clay-silt (dredge sluice tailings)	Bulk		134	0.046
	21CC15SC1	Coarse sand (dredge sluice tailings)	Bulk	90		
	21CC15SC2	Coarse sand (dredge sluice tailings)	Bulk		99.5	<0.015
	21CC15SF1	Fine sand (dredge sluice tailings)	Bulk	90		
	21CC15SF2	Fine sand (dredge sluice tailings)	Bulk		104	<0.015
CC16	21CC16B	Poorly sorted gravel (dredge stacker tailings)	Bulk	70		
	21CC16SB	Poorly sorted gravel (dredge stacker tailings)	Bulk		202	0.026
	21CC16SC	Poorly sorted gravel (dredge stacker tailings)	>2mm	40		
	21CC16SF	Poorly sorted gravel (dredge stacker tailings)	<2mm	140		

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CC17	21CC17SB	Poorly sorted gravel (dredge stacker tailings)	Bulk	60		
	21CC17SC	Poorly sorted gravel (dredge stacker tailings)	>2mm	20		
	21CC17SF1	Poorly sorted gravel (dredge stacker tailings)	<2mm	40		
	21CC17SF2	Poorly sorted gravel (dredge stacker tailings)	<2mm		29.7	0.101
CC18	21CC18SB1	Poorly sorted stream gravel	Bulk	20		
	21CC18SB2	Poorly sorted stream gravel	Bulk		22.5	0.188
	22CC18SB	Poorly sorted stream gravel	Bulk	40		
	22CC18SC	Poorly sorted stream gravel	>2mm	10		
	22CC18SF	Poorly sorted stream gravel	<2mm	50		
	22CC18SM	Poorly sorted stream gravel	<2mm>63mm		10.8	0.524
	22CC18SFA	Poorly sorted stream gravel	<63mm		93.8	4.130
	23CCC18SB	Poorly sorted sandy stream gravel	Bulk	40		
	23CCC18SM	Poorly sorted sandy stream gravel	<2mm>63mm	20		
	23CCC18SF	Poorly sorted sandy stream gravel	<63mm		69.3†	0.625††
CC19	21CC19SB1	Fluvial flood sand	Bulk	20		
	21CC19SB2	Fluvial flood sand	Bulk		13.1	0.020
CC20	22CC20SB	Poorly sorted gravel (dredge stacker tailings)	Bulk	20		
	22CC20SC	Poorly sorted gravel (dredge stacker tailings)	>2mm	10		
	22CC20SF	Poorly sorted gravel (dredge stacker tailings)	<2mm	10		
CC21	22CC21SB	Poorly sorted gravel (dredge stacker tailings)	Bulk	20		
	22CC21SC	Poorly sorted gravel (dredge stacker tailings)	>2mm	20		
	22CC21SF	Poorly sorted gravel (dredge stacker tailings)	<2mm	40		
CC22	22CC22SB	Poorly sorted sandy gravel (mixed dredge stacker and sluice tailings)	Bulk	850		
	22CC22SC	Poorly sorted sandy gravel (mixed dredge stacker and sluice tailings)	>2mm	520		
	22CC22SF	Poorly sorted sandy gravel (mixed dredge stacker and sluice tailings)	<2mm	1100		
CC23	22CC23SB	Coarse sand (dredge sluice tailings)	Bulk	330		
CC24	22CC24SB	Poorly sorted gravel (dredge stacker tailings)	Bulk	60		
	22CC24SC	Poorly sorted gravel (dredge stacker tailings)	>2mm	50		
	22CC24SF	Poorly sorted gravel (dredge stacker tailings)	<2mm	90		
CC25	22CC25SC	Pebbly fluvial sand	>2mm	10		
	22CC25SF	Pebbly fluvial sand	<2mm	10		
CC26	22CC26SB	Poorly sorted gravel fill (dredge stacker tailings)	Bulk	50		

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	22CC26SC	Poorly sorted gravel fill (dredge stacker tailings)	>2mm	30		
	22CC26SF	Poorly sorted gravel fill (dredge stacker tailings)	<2mm	60		
CC28	22CC28SB	Black sulfide-bearing mud (precipitate)	Bulk		66.4	0.849
CC29	22CC29SB	Poorly sorted stream gravel	Bulk	70		
	22CC29SC	Poorly sorted stream gravel	>2mm	40		
	22CC29SM	Poorly sorted stream gravel	<2mm>63mm		19.6	0.029
	22CC29SF	Poorly sorted stream gravel	<63mm	60	156	0.322
	23CCC29SB	Poorly sorted stream gravel	Bulk	20		
	23CCC29SM	Poorly sorted stream gravel	<2mm>63mm	30		
	23CCC29SF	Poorly sorted stream gravel	<63mm		112.8†	0.548††
CC30	22CC30SB	Poorly sorted stream gravel	Bulk	40		
	22CC30SC	Poorly sorted stream gravel	>2mm	30		
	22CC30SF	Poorly sorted stream gravel	<2mm	20		
	22CC30SM	Poorly sorted stream gravel	<2mm>63mm		10.7	0.054
	22CC30SFA	Poorly sorted stream gravel	<63mm		45.3	<0.882
	23CCC30SB	Poorly sorted stream gravel	Bulk	30		
	23CCC30SM	Poorly sorted stream gravel	<2mm>63mm	30		
	23CCC30SFA	Poorly sorted stream gravel	<63mm		76.6†	0.138††
CC31	23CC31SB	Poorly sorted gravel (placer tailings)	Bulk	110		
	23CC31SF	Poorly sorted gravel (placer tailings)	<2mm		145†	
	23CC31SM	Poorly sorted gravel (placer tailings)	<2mm>63mm		917	
	23CC31SFA	Poorly sorted gravel (placer tailings)	<63mm		589	
CC32	23CC32SB	Mud	Bulk		233	
CC33	23CC33SB	Mud	Bulk		158	
CC34	23CC34SB	Fine organic mud	Bulk		309	
CC35	23CC35SB	Organic mud	Bulk		95.4†	0.582††
CC36	23CC36SB	Poorly sorted stream gravel	Bulk	30		
	23CC36SM	Poorly sorted stream gravel	<2mm>63mm	40		
	23CC36SF	Poorly sorted stream gravel	<63mm		182.9†	1.75††