

Table A4. Lead isotopic compositions in HCl – H₂O₂ leaches of streambed sediment from the Boulder River watershed study area, Montana, collected in July 2001 and Sept. 2003. The first two digits of the field number indicate the sampling year. Values are in per mil.

Field No.	Site	²⁰⁶ Pb/ ²⁰⁴ Pb ± 2 σ		²⁰⁷ Pb/ ²⁰⁴ Pb ± 2 σ		²⁰⁸ Pb/ ²⁰⁴ Pb ± 2 σ		²⁰⁷ Pb/ ²⁰⁶ Pb ± 2 σ		²⁰⁸ Pb/ ²⁰⁶ Pb ± 2 σ	
		mean		mean		mean		mean		mean	
Boulder River											
01-BMS-010	2S	18.236	± 0.011	15.564	± 0.014	38.288	± 0.046	0.85346	± 0.00026	2.0995	± 0.0013
03-BMS-110	2S	18.158	± 0.011	15.552	± 0.014	38.186	± 0.046	0.85651	± 0.00026	2.1030	± 0.0013
01-BMS-011	6S	18.099	± 0.011	15.552	± 0.014	38.148	± 0.046	0.85929	± 0.00026	2.1078	± 0.0013
03-BMS-111	6S	18.075	± 0.011	15.534	± 0.014	38.089	± 0.046	0.85946	± 0.00026	2.1073	± 0.0013
01-BMS-014	9S	18.031	± 0.011	15.552	± 0.014	38.094	± 0.046	0.86251	± 0.00026	2.1127	± 0.0013
03-BMS-114	9S	18.028	± 0.011	15.536	± 0.014	38.012	± 0.046	0.86177	± 0.00026	2.1085	± 0.0013
01-BMS-017	12S	18.046	± 0.011	15.550	± 0.014	38.102	± 0.046	0.86167	± 0.00026	2.1113	± 0.0013
03-BMS-117	12S	18.030	± 0.011	15.535	± 0.014	38.044	± 0.046	0.86162	± 0.00026	2.1100	± 0.0013
01-BMS-018	13S	18.051	± 0.011	15.552	± 0.014	38.117	± 0.046	0.86159	± 0.00026	2.1117	± 0.0013
01-BMS-018-d	13S	18.050	± 0.011	15.550	± 0.014	38.105	± 0.046	0.86147	± 0.00026	2.1110	± 0.0013
03-BMS-118	13S	17.970	± 0.011	15.523	± 0.014	38.031	± 0.046	0.86381	± 0.00026	2.1163	± 0.0013
01-BMS-019	15S	18.043	± 0.011	15.548	± 0.014	38.098	± 0.046	0.86173	± 0.00026	2.1115	± 0.0013
03-BMS-119	15S	18.023	± 0.012	15.539	± 0.015	38.073	± 0.047	0.86220	± 0.00026	2.1124	± 0.0013
Basin Creek Drainage											
01-BMS-001	20S	18.039	± 0.011	15.560	± 0.014	38.040	± 0.046	0.86255	± 0.00026	2.1087	± 0.0013
03-BMS-101	20S	18.031	± 0.011	15.554	± 0.014	38.019	± 0.046	0.86260	± 0.00026	2.1085	± 0.0013
01-BMS-002	21S	17.891	± 0.011	15.554	± 0.014	38.030	± 0.046	0.86934	± 0.00026	2.1256	± 0.0013
03-BMS-102	21eS	17.917	± 0.011	15.547	± 0.014	38.011	± 0.046	0.86771	± 0.00026	2.1215	± 0.0013
01-BMS-006	24S	17.968	± 0.011	15.558	± 0.014	38.048	± 0.046	0.86588	± 0.00026	2.1176	± 0.0013
01-BMS-008	26S	17.935	± 0.011	15.548	± 0.014	37.998	± 0.046	0.86690	± 0.00026	2.1186	± 0.0013
01-BMS-009	31S	18.009	± 0.011	15.563	± 0.014	38.070	± 0.046	0.86417	± 0.00026	2.1140	± 0.0013
03-BMS-109	31S	17.983	± 0.011	15.537	± 0.014	37.982	± 0.046	0.86399	± 0.00026	2.1121	± 0.0013
01-BMS-007	42S	17.939	± 0.011	15.569	± 0.014	38.056	± 0.046	0.86789	± 0.00026	2.1215	± 0.0013
03-BMS-107	42S	17.921	± 0.011	15.538	± 0.014	37.939	± 0.046	0.86705	± 0.00026	2.1170	± 0.0013
Cataract Creek Drainage											
01-BMS-003	46S	18.104	± 0.011	15.555	± 0.014	38.149	± 0.046	0.85921	± 0.00026	2.1073	± 0.0013

03-BMS-103	46S	18.022	±	0.011	15.542	±	0.014	38.069	±	0.046	0.86239	±	0.00026	2.1124	±	0.0013
01-BMS-004	49S	17.927	±	0.011	15.543	±	0.014	38.034	±	0.046	0.86700	±	0.00026	2.1216	±	0.0013
03-BMS-104	49S	17.921	±	0.013	15.533	±	0.015	38.002	±	0.048	0.86673	±	0.00027	2.1205	±	0.0013
01-BMS-005	50S	17.920	±	0.011	15.545	±	0.014	37.993	±	0.046	0.86750	±	0.00026	2.1202	±	0.0013
03-BMS-105	50S	17.914	±	0.019	15.543	±	0.020	37.976	±	0.057	0.86762	±	0.00027	2.1199	±	0.0013
01-BMS-013	53S	18.108	±	0.011	15.562	±	0.014	38.096	±	0.046	0.85938	±	0.00026	2.1038	±	0.0013
03-BMS-113	53S	18.018	±	0.011	15.531	±	0.014	37.931	±	0.046	0.86196	±	0.00026	2.1051	±	0.0013
01-BMS-012	57S	17.923	±	0.011	15.553	±	0.014	38.000	±	0.046	0.86775	±	0.00026	2.1201	±	0.0013
03-BMS-112	57S	17.921	±	0.012	15.554	±	0.015	38.006	±	0.047	0.86793	±	0.00027	2.1207	±	0.0013
High Ore Creek Drainage																
01-BMS-015	59S	18.072	±	0.011	15.556	±	0.014	38.142	±	0.046	0.86081	±	0.00026	2.1106	±	0.0013
03-BMS-115	59S	18.060	±	0.011	15.539	±	0.014	38.084	±	0.046	0.86040	±	0.00026	2.1087	±	0.0013
01-BMS-016	63S	18.057	±	0.011	15.547	±	0.014	38.106	±	0.046	0.86101	±	0.00026	2.1103	±	0.0013
03-BMS-116	63S	18.052	±	0.011	15.539	±	0.014	38.070	±	0.046	0.86084	±	0.00026	2.1090	±	0.0013
