METALS LEACHING DATA

SANTORINI, GREECE

Santorini leachate analyses					
MgCl2					
Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Cu (ppm)
SAN94-008	8	1.03	0.0472	2	0.73320388
SAN94-010	8	1.034	0.0418	2	0.64680851
SAN94-012	8	1.032	0.0448	2	0.69457364
SAN94-014	8	1.033	0.043	2	0.6660213
SAN94-016	8	1.027	0.0585	2	0.91139241
SAN94-017	8	1.031	0.0221	2	0.34296799
SAN94-018	8	1.03	0.019	2	0.29514563
SAN94-020	8	1.03	0.0432	2	0.67106796
SAN94-021	8	1.033	0.0399	2	0.61800581
SAN94-023	8	1.032	0.0528	2	0.81860465
SAN94-024	8	1.032	0.0466	2	0.72248062
SAN94-025	8	1.025	0.0336	2	0.5244878
SAN94-026	8	1.026	0.0268	2	0.41793372
SAN94-028	8	1.031	0.0547	2	0.84888458
SAN94-029	8	1.033	0.0128	2	0.1982575
SAN94-031	8	1.03	0.0327	2	0.50796117
SAN94-032	8	1.031	0.0764	2	1.185645
SAN94-033	8	1.029	0.0456	2	0.7090379
SAN94-034	8	1.032	0.0447	2	0.69302326
SAN94-036	8	1.021	0.0616	2	0.96532811
SAN94-037	8	1.033	0.024	2	0.37173282
SAN94-038	8	1.029	0.0083	2	0.12905734
SAN94-039A	8	1.027	0.0368	2	0.57332035
SAN94-039B	8	1.022	0.0192	2	0.30058708
SAN94-043	8	1.032	0.0819	2	1.26976744
SAN94-044	8	1.029	0.066	2	1.02623907
SAN94-045	8	1.029	0.0569	2	0.88474247
SAN94-046	8	1.036	0.0687	2	1.06100386
SAN94-047	8	1.034	0.0623	2	0.96402321
SAN94-049	8	1.034	0.0262	2	0.40541586
SAN94-051	8	0.513	0.654	2	20.3976608
SAN-022	8	1.032	0.0683	2	1.05891473
SAN-027	8	1.028	0.0889	2	1.38365759
SAN-030	8	1.021	0.0633	2	0.99196866
SAN-031	8	1.03	0.0365	2	0.56699029
SAN-033	8	1.029	0.0366	2	0.56909621
SAN-023	8	1.024	0.0715	2	1.1171875
SAN-024	8	1.03	0.0723	2	1.1231068
SAN-038	8	1.03	0.0793	2	1.23184466
SAN-039	8	1.029	0.0471	2	0.73236152
SAN-041	8	1.023	0.0604	2	0.94467253

SAN-046	8	1.016	0.0579	2	0.91181102
SAN-047	8	1.028	0.045	2	0.70038911
SAN-049	8	1.021	0.0597	2	0.93555338
SAN94-050	8	0.5075	0.0473	1000	745.615764
SAN94-044-1	8	1.029	0.0631	2	0.98114674
SAN94-044-2	8	1.025	0.0661	2	1.03180488
SAN94-017-1	8	1.025	0.0501	2	0.78204878
Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Co (ppm)
SAN94-008	8	1.03	0.2181	2	3.38796117
SAN94-010	8	1.034	0.2439	2	3.77408124
SAN94-012	8	1.032	0.4029	2	6.24651163
SAN94-014	8	1.033	0.4418	2	6.84298161
SAN94-016	8	1.027	0.272	2	4.2375852
SAN94-017	8	1.031	0.2755	2	4.27546072
SAN94-018	8	1.03	0.3529	2	5.48194175
SAN94-020	8	1.03	0.3383	2	5.25514563
SAN94-021	8	1.033	0.3727	2	5.77270087
SAN94-023	8	1.032	0.2749	2	4.2620155
SAN94-024	8	1.032	0.313	2	4.85271318
SAN94-025	8	1.025	0.4264	2	6.656
SAN94-026	8	1.026	0.3608	2	5.62651072
SAN94-028	8	1.031	0.1259	2	1.95383123
SAN94-029	8	1.033	0.2837	2	4.39419167
SAN94-031	8	1.03	0.3009	2	4.67417476
SAN94-032	8	1.031	0.2514	2	3.9014549
SAN94-033	8	1.029	0.3697	2	5.74849368
SAN94-034	8	1.032	0.3754	2	5.82015504
SAN94-036	8	1.021	0.4369	2	6.84662096
SAN94-037	8	1.033	0.3154	2	4.88518877
SAN94-038	8	1.029	0.2776	2	4.31642371
SAN94-039A	8	1.027	0.3378	2	5.26270691
SAN94-039B	8	1.022	0.2219	2	3.4739726
SAN94-043	8	1.032	0.1586	2	2.45891473
SAN94-044	8	1.029	0.25	2	3.88726919
SAN94-045	8	1.029	0.4706	2	7.31739553
SAN94-046	8	1.036	0.3636	2	5.61544402
SAN94-047	8	1.034	0.3914	2	6.05647969
SAN94-049	8	1.034	0.2934	2	4.54003868
SAN94-051	8	0.513	0.6311	2	19.6834308
SAN-022	8	1.032	0.2515	2	3.89922481
SAN-027	8	1.028	0.2215	2	3.44747082
SAN-030	8	1.021	0.2615	2	4.09794319
SAN-031	8	1.03	0.2523	2	3.9192233
SAN-033	8	1.029	0.24	2	3.73177843

Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Pb (ppm)
SAN94-008	8	1.03	0.2314	2	3.59456311
SAN94-010	8	1.034	0.2412	2	3.73230174
SAN94-012	8	1.032	0.2179	2	3.37829457
SAN94-014	8	1.033	0.2403	2	3.72197483
SAN94-016	8	1.027	0.1652	2	2.57370983
SAN94-017	8	1.031	0.214	2	3.32104753
SAN94-018	8	1.03	0.2039	2	3.16737864
SAN94-020	8	1.03	0.24	2	3.72815534
SAN94-021	8	1.033	0.2258	2	3.49738625
SAN94-023	8	1.032	0.2116	2	3.28062016
SAN94-024	8	1.032	0.2008	2	3.11317829
SAN94-025	8	1.025	0.2531	2	3.95082927
SAN94-026	8	1.026	0.2137	2	3.33255361
SAN94-028	8	1.031	0.2059	2	3.19534433
SAN94-029	8	1.033	0.2066	2	3.2
SAN94-031	8	1.03	0.1481	2	2.30058252
SAN94-032	8	1.031	0.1886	2	2.92686712
SAN94-033	8	1.029	0.2065	2	3.21088435
SAN94-034	8	1.032	0.2326	2	3.60620155
SAN94-036	8	1.021	0.2177	2	3.4115573
SAN94-037	8	1.033	0.2275	2	3.52371733
SAN94-038	8	1.029	0.1398	2	2.17376093
SAN94-039A	8	1.027	0.1434	2	2.23407984
SAN94-039B	8	1.022	0.2336	2	3.65714286
SAN94-043	8	1.032	0.2049	2	3.17674419
SAN94-044	8	1.029	0.1489	2	2.31525753
SAN94-045	8	1.029	0.2531	2	3.93547133
SAN94-046	8	1.036	0.2459	2	3.7976834
SAN94-047	8	1.034	0.3	2	4.64216634
SAN94-049	8	1.034	0.1893	2	2.92920696
SAN94-051	8	0.513	0.2087	2	6.50916179
SAN-022	8	1.032	0.251	2	3.89147287
SAN-027	8	1.028	0.253	2	3.93774319
SAN-030	8	1.021	0.2939	2	4.60568071
SAN-031	8	1.03	0.3127	2	4.85747573
SAN-033	8	1.029	0.3016	2	4.68960155

Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Ag (ppm)
SAN94-008	8	1.03	0.0094	2	0.14601942
SAN94-010	8	1.034	0.0093	2	0.14390716
SAN94-012	8	1.032	0.0023	2	0.03565891
SAN94-014	8	1.033	0	2	0
SAN94-016	8	1.027	0	2	0
SAN94-017	8	1.031	0.0083	2	0.12880698
SAN94-018	8	1.03	0	2	0
SAN94-020	8	1.03	0	2	0
SAN94-021	8	1.033	0.0281	2	0.43523717
SAN94-023	8	1.032	0.0175	2	0.27131783
SAN94-024	8	1.032	0.0411	2	0.6372093
SAN94-025	8	1.025	0	2	0
SAN94-026	8	1.026	0.0532	2	0.82962963
SAN94-028	8	1.031	0	2	0
SAN94-029	8	1.033	0.0058	2	0.08983543
SAN94-031	8	1.03	0	2	0
SAN94-032	8	1.031	0	2	0
SAN94-033	8	1.029	0.0751	2	1.16773567
SAN94-034	8	1.032	0.1125	2	1.74418605
SAN94-036	8	1.021	0.0602	2	0.94338883
SAN94-037	8	1.033	0	2	0
SAN94-038	8	1.029	0	2	0
SAN94-039A	8	1.027	0.0351	2	0.54683544
SAN94-039B	8	1.022	0.0082	2	0.12837573
SAN94-043	8	1.032	0.014	2	0.21705426
SAN94-044	8	1.029	0.0152	2	0.23634597
SAN94-045	8	1.029	0.0909	2	1.41341108
SAN94-046	8	1.036	0	2	0
SAN94-047	8	1.034	0.0817	2	1.26421663
SAN94-049	8	1.034	0	2	0
SAN94-051	8	0.513	0.0264	2	0.82339181
SAN-022	8	1.032	0.0957	2	1.48372093
SAN-027	8	1.028	0.3846	2	5.98599222
SAN-030	8	1.021	0	2	0
SAN-031	8	1.03	0	2	0
SAN-033	8	1.029	0.0511	2	0.79455782

Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Zn (ppm)
SAN94-008	8	1.03	0.0335	2	0.52038835
SAN94-010	8	1.034	0.0324	2	0.50135397
SAN94-012	8	1.032	0.039	2	0.60465116
SAN94-014	8	1.033	0.049	2	0.7589545
SAN94-016	8	1.027	0.0271	2	0.42220058
SAN94-017	8	1.031	0.0249	2	0.38642095
SAN94-018	8	1.03	0.0484	2	0.75184466
SAN94-020	8	1.03	0.0352	2	0.54679612
SAN94-021	8	1.033	0.0507	2	0.78528558
SAN94-023	8	1.032	0.0285	2	0.44186047
SAN94-024	8	1.032	0.0298	2	0.4620155
SAN94-025	8	1.025	0.0355	2	0.55414634
SAN94-026	8	1.026	0.0428	2	0.66744639
SAN94-028	8	1.031	0.0376	2	0.58351115
SAN94-029	8	1.033	0.0449	2	0.69545015
SAN94-031	8	1.03	0.0377	2	0.58563107
SAN94-032	8	1.031	0.0319	2	0.49505335
SAN94-033	8	1.029	0.0468	2	0.72769679
SAN94-034	8	1.032	0.0541	2	0.83875969
SAN94-036	8	1.021	0.0564	2	0.88383937
SAN94-037	8	1.033	0.027	2	0.41819942
SAN94-038	8	1.029	0.0524	2	0.81477162
SAN94-039A	8	1.027	0.0438	2	0.68237585
SAN94-039B	8	1.022	0.0257	2	0.40234834
SAN94-043	8	1.032	0.0395	2	0.6124031
SAN94-044	8	1.029	0.0424	2	0.65928086
SAN94-045	8	1.029	0.0643	2	0.99980564
SAN94-046	8	1.036	0.049	2	0.75675676
SAN94-047	8	1.034	0.0445	2	0.68858801
SAN94-049	8	1.034	0.0357	2	0.55241779
SAN94-051	8	0.513	0.0605	2	1.88693957
SAN-022	8	1.032	0.0554	2	0.85891473
SAN-027	8	1.028	0.0645	2	1.00389105
SAN-030	8	1.021	0.0605	2	0.94809011
SAN-031	8	1.03	0.057	2	0.88543689
SAN-033	8	1.029	0.0546	2	0.84897959
SAN-023	8	1.024	0.0574	2	0.896875
SAN-024	8	1.03	0.0943	2	1.46485437
SAN-038	8	1.03	0.0598	2	0.92893204
SAN-039	8	1.029	0.0557	2	0.86608358
SAN-041	8	1.023	0.0569	2	0.88993157
SAN-046	8	1.016	0.0726	2	1.14330709
SAN-047	8	1.028	0.0469	2	0.72996109
SAN-049	8	1.021	0.0536	2	0.83996082

SAN94-050	8	0.5075	0.0969	2	3.05497537
SAN94-044-1	8	1.029	0.0413	2	0.64217687
SAN94-044-2	8	1.025	0.0649	2	1.01307317
SAN94-017-1	8	1.025	0.0418	2	0.6524878
Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Fe (ppm)
SAN94-008	8	1.03	0.0602	10	4.67572816
SAN94-010	8	1.034	0	10	0
SAN94-012	8	1.032	0	10	0
SAN94-014	8	1.033	0.0072	10	0.55759923
SAN94-016	8	1.027	0.0787	10	6.13047712
SAN94-017	8	1.031	0.0528	10	4.09699321
SAN94-018	8	1.03	0	10	0
SAN94-020	8	1.03	0	10	0
SAN94-021	8	1.033	0	10	0
SAN94-023	8	1.032	0.0378	10	2.93023256
SAN94-024	8	1.032	0.0175	10	1.35658915
SAN94-025	8	1.025	0	10	0
SAN94-026	8	1.026	0	10	0
SAN94-028	8	1.031	0.0042	10	0.32589719
SAN94-029	8	1.033	0.0612	10	4.73959342
SAN94-031	8	1.03	0.0615	10	4.77669903
SAN94-032	8	1.031	0.0818	10	6.34723569
SAN94-033	8	1.029	0.0116	10	0.90184645
SAN94-034	8	1.032	0	10	0
SAN94-036	8	1.021	0.0139	10	1.08912831
SAN94-037	8	1.033	0.054	10	4.18199419
SAN94-038	8	1.029	0.0111	10	0.86297376
SAN94-039A	8	1.027	0.0067	10	0.52190847
SAN94-039B	8	1.022	0.011	10	0.86105675
SAN94-043	8	1.032	0.066	10	5.11627907
SAN94-044	8	1.029	0.061	10	4.74246842
SAN94-045	8	1.029	0.0236	10	1.83479106
SAN94-046	8	1.036	0.0185	10	1.42857143
SAN94-047	8	1.034	0.0279	10	2.15860735
SAN94-049	8	1.034	0.0061	10	0.47195358
SAN94-051	8	0.513	0.0274	10	4.27290448
SAN-022	8	1.032	0	10	0
SAN-027	8	1.028	0.0285	10	2.21789883
SAN-030	8	1.021	0.0472	10	3.69833497
SAN-031	8	1.03	0	10	0
SAN-033	8	1.029	0.0047	10	0.3654033
SAN-023	8	1.024	0.0207	10	1.6171875
SAN-024	8	1.03	0.0266	10	2.06601942
SAN-038	8	1.03	0.0145	10	1.12621359

SAN-039	8	1.029	0	10	0
SAN-041	8	1.023	0.0042	10	0.32844575
SAN-046	8	1.016	0	10	0
SAN-047	8	1.028	0.0252	10	1.96108949
SAN-049	8	1.021	0	10	0
SAN94-050	8	0.5075	0.0318	10	5.01280788
SAN94-044-1	8	1.029	0.0142	10	1.10398445
SAN94-044-2	8	1.025	0.0165	10	1.28780488
SAN94-017-1	8	1.025	0.0102	10	0.79609756
Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Mn (ppm)
SAN94-008	8	1.03	0.0316	10	2.45436893
SAN94-010	8	1.034	0.0494	10	3.82205029
SAN94-012	8	1.032	0.0339	10	2.62790698
SAN94-014	8	1.033	0.0447	10	3.46176186
SAN94-016	8	1.027	0.0274	10	2.13437196
SAN94-017	8	1.031	0.047	10	3.64694471
SAN94-018	8	1.03	0.0443	10	3.4407767
SAN94-020	8	1.03	0.0378	10	2.93592233
SAN94-021	8	1.033	0.043	10	3.33010649
SAN94-023	8	1.032	0.0461	10	3.57364341
SAN94-024	8	1.032	0.0479	10	3.71317829
SAN94-025	8	1.025	0.045	10	3.51219512
SAN94-026	8	1.026	0.0456	10	3.55555556
SAN94-028	8	1.031	0.0568	10	4.40737148
SAN94-029	8	1.033	0.2549	10	19.7405615
SAN94-031	8	1.03	0.0366	10	2.84271845
SAN94-032	8	1.031	0.0671	10	5.20659554
SAN94-033	8	1.029	0.0471	10	3.66180758
SAN94-034	8	1.032	0.0216	10	1.6744186
SAN94-036	8	1.021	0.0296	10	2.31929481
SAN94-037	8	1.033	0.0252	10	1.95159729
SAN94-038	8	1.029	0.0659	10	5.1234208
SAN94-039A	8	1.027	0.0659	10	5.13339825
SAN94-039B	8	1.022	0.0772	10	6.04305284
SAN94-043	8	1.032	0.0827	10	6.41085271
SAN94-044	8	1.029	0.0438	10	3.40524781
SAN94-045	8	1.029	0.0253	10	1.96695821

SAN94-046	8	1.036	0.0349	10	2.69498069
SAN94-047	8	1.034	0.0309	10	2.39071567
SAN94-049	8	1.034	0.0192	10	1.48549323
SAN94-051	8	0.513	0.1195	10	18.6354776
SAN-022	8	1.032	0.1514	10	11.7364341
SAN-027	8	1.028	0.0383	10	2.98054475
SAN-030	8	1.021	0.0163	10	1.27717924
SAN-031	8	1.03	0.0589	10	4.57475728
SAN-033	8	1.029	0.0257	10	1.99805637
SAN-023	8	1.024	0.0625	10	4.8828125
SAN-024	8	1.03	0.1209	10	9.39029126
SAN-038	8	1.03	0.0306	10	2.37669903
SAN-039	8	1.029	0.0379	10	2.94655005
SAN-041	8	1.023	0.0411	10	3.21407625
SAN-046	8	1.016	0.0285	10	2.24409449
SAN-047	8	1.028	0.0493	10	3.83657588
SAN-049	8	1.021	0.0451	10	3.5337904
SAN94-050	8	0.5075	0.1319	10	20.7921182
SAN94-044-1	8	1.029	0.0306	10	2.37900875
SAN94-044-2	8	1.025	0.0309	10	2.41170732
SAN94-017-1	8	1.025	0.0344	10	2.68487805

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Cu (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0.0028	0.0026	0.002	0.002	0.0038	0.0018	0.0004	0.002	0.0018	0.003	0.003	0.0014	0.0012	0.0036	0.0018
2	1	0.062	0.0622	0.067	0.067	0.0608	0.0592	0.066	0.0666	0.0664	0.062	0.06	0.066	0.066	0.063	0.0614
3	2	0.1214	0.1222	0.127	0.1276	0.12	0.1194	0.1266	0.127	0.127	0.1204	0.1188	0.1264	0.128	0.1242	0.1272

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0.0026	0.0044	0.0026	0.002	0.003	0.0012	0.0006	0.0022	0.001	0.005	0.004	0.0028	0.003	0.003	0.002	0.0384
2	0.062	0.062	0.067	0.067	0.069	0.0602	0.0602	0.0618	0.0584	0.0616	0.0628	0.0684	0.0694	0.0682	0.0618	0.0952
3	0.125	0.1196	0.1298	0.1274	0.1296	0.1178	0.1204	0.1216	0.1154	0.1198	0.1222	0.1292	0.1282	0.1282	0.1242	0.1546

	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033	SAN-023	SAN-024	SAN-038	SAN-039	SAN-041	SAN-046	SAN-047	SAN-049	SAN94-050	SAN94-044-1	SAN94-044-2
1	0.0032	0.005	0.003	0.0016	0.0014	0.0032	0.0034	0.0036	0.002	0.0028	0.003	0.002	0.0024	0	0.003	0.003
2	0.0696	0.0698	0.0692	0.0668	0.067	0.0615	0.0605	0.06	0.059	0.059	0.059	0.059	0.0605	0	0.06	0.061
3	0.1292	0.131	0.1294	0.1276	0.127	0.115	0.114	0.112	0.1125	0.112	0.1135	0.113	0.113	0	0.114	0.115

	49
	SAN94-017-1
1	0.0022
2	0.06
3	0.114

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Zn (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0.007	0.0088	0.009	0.011	0.0052	0.0044	0.01	0.0075	0.01	0.0058	0.0062	0.0075	0.009	0.008	0.0098
2	0.5	0.133	0.13	0.137	0.1405	0.1312	0.132	0.1425	0.138	0.1435	0.132	0.132	0.137	0.139	0.1324	0.136
3	1	0.252	0.256	0.26	0.262	0.249	0.2494	0.262	0.26	0.2605	0.251	0.251	0.258	0.259	0.25	0.255

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0.0072	0.0064	0.01	0.0115	0.012	0.0056	0.0108	0.0082	0.005	0.0084	0.0092	0.015	0.012	0.0095	0.0074	0.0092
2	0.135	0.133	0.14	0.141	0.142	0.1308	0.139	0.138	0.129	0.135	0.134	0.139	0.141	0.139	0.133	0.1472
3	0.251	0.251	0.26	0.259	0.26	0.25	0.255	0.253	0.246	0.254	0.252	0.259	0.267	0.259	0.251	0.252

	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033	SAN-023	SAN-024	SAN-038	SAN-039	SAN-041	SAN-046	SAN-047	SAN-049	SAN94-050	SAN94-044-1	SAN94-044-2
1	0.012	0.014	0.013	0.013	0.0105	0.0126	0.0176	0.011	0.0118	0.0132	0.019	0.0096	0.012	0.023	0.009	0.0138
2	0.142	0.144	0.143	0.141	0.1405	0.141	0.15	0.137	0.132	0.129	0.13	0.131	0.13	0.132	0.13	0.135
3	0.261	0.262	0.261	0.262	0.254	0.26	0.254	0.245	0.245	0.245	0.253	0.244	0.245	0.248	0.246	0.248

	4 9
	SAN94-017-1
1	0.0088
2	0.129
3	0.243

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Mn (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0.0028	0.0048	0.0028	0.004	0.0028	0.0048	0.0044	0.0036	0.004	0.0046	0.0048	0.0042	0.0044	0.0056	0.026
2	0.5	0.0528	0.056	0.06	0.0572	0.054	0.0572	0.0556	0.0544	0.055	0.0544	0.055	0.0538	0.054	0.056	0.077
3	1	0.101	0.106	0.112	0.107	0.105	0.109	0.106	0.104	0.104	0.1044	0.105	0.102	0.103	0.106	0.128

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0.0032	0.007	0.0044	0.0022	0.002	0.0026	0.0064	0.0064	0.008	0.0086	0.0044	0.0024	0.0026	0.0024	0.0026	0.0122
2	0.057	0.0582	0.0538	0.0504	0.0536	0.052	0.058	0.054	0.058	0.058	0.056	0.052	0.0536	0.0526	0.053	0.0648
3	0.107	0.1098	0.102	0.0994	0.1	0.102	0.108	0.102	0.109	0.109	0.107	0.101	0.1	0.0994	0.107	0.116

	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033	SAN-023	SAN-024	SAN-038	SAN-039	SAN-041	SAN-046	SAN-047	SAN-049	SAN94-050	SAN94-044-1	SAN94-044-2
1	0.014	0.0034	0.002	0.0042	0.0016	0.0062	0.0112	0.003	0.0034	0.0038	0.0028	0.0036	0.004	0.0122	0.003	0.003
2	0.064	0.0526	0.0498	0.057	0.053	0.057	0.061	0.052	0.053	0.053	0.052	0.056	0.054	0.062	0.052	0.0515
3	0.1104	0.1	0.1	0.101	0.099	0.107	0.108	0.101	0.101	0.101	0.101	0.101	0.1015	0.1085	0.101	0.1

SAN94 MgCl2 Mn data

	4 9
	SAN94-017-1
1	0.003
2	0.052
3	0.099

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Fe (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0.003	0	0	0.0006	0.0034	0.0014	0	0	0	0.0016	0.0006	0	0	0.0004	0.003
2	1	0.049	0	0	0.041	0.053	0.052	0	0	0	0.05	0.047	0	0	0.047	0.052
3	2	0.096	0	0	0.0834	0.1	0.096	0	0	0	0.097	0.092	0	0	0.095	0.101
4																
5																

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0.0034	0.0032	0.0002	0	0.0004	0.003	0.0002	0.0004	0.0006	0.003	0.0026	0.0002	0.0004	0.0008	0.0016	0.0012
2	0.051	0.0544	0.044	0	0.044	0.052	0.046	0.045	0.046	0.052	0.053	0.045	0.045	0.045	0.047	0.049
3	0.101	0.101	0.086	0	0.0864	0.103	0.09	0.09	0.0918	0.1	0.101	0.085	0.087	0.0868	0.1	0.096
4																
5																

	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033	SAN-023	SAN-024	SAN-038	SAN-039	SAN-041	SAN-046	SAN-047	SAN-049	SAN94-050	SAN94-044-1	SAN94-044-2
1	0	0.0008	0.0012	0	0.0002	0.0002	0.0004	0.0006	0	0.0004	0	0.0006	0	0.0008	0.0006	0.001
2	0	0.044	0.046	0	0.043	0.051	0.052	0.049	0	0.047	0	0.05	0	0.05	0.05	0.049
3	0	0.085	0.086	0	0.086	0.097	0.098	0.097	0	0.095	0	0.096	0	0.095	0.099	0.098
4																
5																

	49
	SAN94-017-1
1	0.0008
2	0.049
3	0.099
4	
5	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Ag (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0.0004	0.0008	0.0005	0	0.0002	0.0006	0	0	0.0013	0.0012	0.0036	0	0.004	0.0002	0.002
2	1	0.087	0.087	0.085	0	0.0842	0.085	0	0	0.09	0.088	0.0884	0	0.09	0.0854	0.084
3	2	0.171	0.173	0.171	0	0.171	0.169	0	0	0.172	0.173	0.174	0	0.173	0.174	0.175

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0	0	0.008	0.009	0.004	0	0	0.0022	0.0004	0.0018	0.0016	0.006	0	0.006	0	0.002
2	0	0	0.09	0.089	0.09	0	0	0.09	0.0862	0.086	0.086	0.093	0	0.09	0	0.09
3	0	0	0.181	0.169	0.17	0	0	0.173	0.17	0.1738	0.172	0.171	0	0.17	0	0.176

	33	34	35	36	37
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033
1	0.009	0.028	0	0	0.003
2	0.103	0.098	0	0	0.091
3		0.171	0	0	0.171

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Pb (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0.005	0.0055	0.0055	0.0055	0.004	0.0054	0.005	0.006	0.0055	0.0054	0.0048	0.006	0.005	0.005	0.0046
2	1	0.031	0.0284	0.0315	0.029	0.0274	0.0292	0.031	0.031	0.0305	0.0286	0.0296	0.031	0.0305	0.0286	0.03
3	2	0.0534	0.051	0.057	0.052	0.0512	0.054	0.056	0.056	0.055	0.0536	0.0536	0.055	0.0545	0.0526	0.053

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0.0044	0.0042	0.005	0.0055	0.005	0.0058	0.0032	0.0034	0.0054	0.005	0.0038	0.006	0.006	0.007	0.0048	0.0048
2	0.0264	0.0274	0.03	0.0305	0.031	0.0276	0.027	0.028	0.0306	0.0294	0.0264	0.031	0.031	0.0315	0.0284	0.0278
3	0.053	0.0498	0.0545	0.0545	0.0545	0.0524	0.0504	0.0522	0.0542	0.0538	0.0508	0.055	0.0555	0.055	0.0534	0.0508

	33	34	35	36	37
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033
1	0.006	0.006	0.007	0.0075	0.007
2	0.0305	0.031	0.032	0.032	0.032
3	0.0545	0.055	0.056	0.056	0.0555

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Co (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0.0082	0.009	0.014	0.015	0.0098	0.0098	0.012	0.0115	0.012	0.01	0.011	0.014	0.0115	0.0048	0.0104
2	1	0.0458	0.046	0.047	0.048	0.0464	0.0466	0.046	0.045	0.046	0.0478	0.048	0.048	0.045	0.045	0.045
3	2	0.0834	0.0828	0.082	0.082	0.0826	0.0824	0.08	0.079	0.078	0.0842	0.0832	0.0805	0.077	0.0842	0.0816

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0.01	0.0088	0.012	0.012	0.014	0.0116	0.009	0.0128	0.0074	0.006	0.009	0.0155	0.012	0.0125	0.01	0.0228
2	0.0444	0.046	0.0455	0.045	0.047	0.049	0.0468	0.049	0.0444	0.043	0.047	0.047	0.045	0.046	0.046	0.0604
3	0.0778	0.0812	0.078	0.077	0.079	0.0858	0.0796	0.0868	0.0786	0.0804	0.0834	0.08	0.078	0.078	0.0802	0.096

	33	34	35	36	37
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033
1	0.008	0.007	0.008	0.008	0.0075
2	0.042	0.04	0.042	0.041	0.041
3	0.074	0.072	0.073	0.073	0.0725

$MgCl_2$

		SAN94-012	SAN94-014	SAN94-018	SAN94-020	SAN94-021	SAN94-025
A	Cu	.002	.002	.0004	.002	.0018	.0014
	Co	.014	.015	.012	.0115	.012	.014
	Pb	.0055	.0055	.005	.006	.0055	.006
	Ag	.0005	0	0	~~.001~~ 0	.013	0
	ZN	.009	.011	.010	.075	.010	.075
	MN	3 2 4 2 3	4 4 4 4 4	4 3 5 6 4	3 4 3 3 5	4 4 4 4 4	3 4 5 5 4
	Fe	0	0 1 1 1 0	0	0	0	0
B	Cu	.067	.067	.066	.0666	.0664	.066
	Co	.047	.048	.046	.045	.046	.048
	Pb	.0315	.029	.031	.031	.0305	.031
	Ag	.094	.091	~~.1015~~ .0105	.090	.091	.0944
	ZN	~~.128~~ .137	.1405	.1425	.138	.1435	.138
	MN	5 9 6 0 5 9 6 0 6 1	5 7 5 8 5 7 5 7 5 7	5 5 5 6 5 6 5 6 5 5	5 5 5 4 5 5 5 3 5 5	5 4 5 6 5 5 5 4 5 5	5 4 5 4 5 4 5 4 5 3
	Fe	—	4 1 4 0 4 1 4 2 4 1	—	—	—	—
C	Cu	.127	.1276	.1266	127	.127	.1264
	Co	.082	.082	.080	.079	.078	.0805
	Pb	.057	.052	.056	.056	.055	.055
	Ag	.171	.177	.139	.198	.172	.174
	ZN	.260	.262	.262	.260	.2605	~~.28~~ .258
	MN	113 112 113 111 111	108 106 109 106 107	106 104 106 106 106	103 103 105 104 105	103 104 105 104 103	102 102 101 102 102
	Fe	—	34 ~~33 34 33~~ 33	—	—	—	—

Mg 12

		SAN94-026	SAN94-033	SAN94-034	SAN94-036	SAN94-045	SAN94-046
A	Cu	.0012	.0026	.002	.003	.0028	.003
	Co	.0115	.012	.012	.014	.0155	.012
	Pb	.005	.005	.0055	.005	.006	.006
	Ag	.004	.008	.009	.004	.006	0
	ZN	.009	.010	.0115	.012	.015	.012
	MN	44455	45544	22223	22231	21423	22243
	Fe	0	10000	0	11000	00100	11000
B	Cu	.066	.067	.067	.069	.0684	.0694
	Co	.045	.0455	.045	.047	.047	.045
	Pb	.0305	.030	.0305	.031	.031	.031
	Ag	.090	.090	.089	.090	.093	.125
	ZN	.139	.140	.141	.142	.139	.141
	MN	55 5455 5354	53 5454 5454	50 51 51 50 50	5453 5454 53	52 51 5353 52	5454 5353 54
	Fe	—	44 4444 4444	—	43 4444 4546	4645 4643 45	46 4644 4544
C	Cu	.128	.1298	.1274	.1296	.1292	.1282
	Co	.077	.078	.077	.079	.080	.078
	Pb	.0545	.0545	.054	.0545	.055	.0555
	Ag	.173	.181	.169	.170	.171	.174
	ZN	.259	.240	.259	.260	.259	.267
	MN	103 103103 103103	103 103102 02101	99 101 100 9999	100 100 99 101 100	101 100 102 100 101	101 99 101 100 100
	Fe	—	8584 848784	—	8684 8786 87	8684 8484 84	8787 8785 87

$MgCl_2$

		SAN94-047	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033
A	Cu	.003	.0032	.005	.003	.0016	.0014
	Co	.0125	.008	.007	.008	.008	.0025
	Pb	.007	.006	.006	.007	.0075	.007
	Ag	.006	.009	.028	0	0	.003
	ZN	.0095	.012	.014	.013	.013	.0105
	MN	3 3 3 2 2	14 15 13 14 14	4 3 4 3 3	2 2 2 2 2	4 4 4 5 4	2 2 1 1 2
	Fe	0 1 0 2 1	0	2 0 0 1 1	1 1 2 0 2	0	0 0 0 0 1
B	Cu	~~.1282~~ .0682	~~.1292~~ .0696	~~.131~~ .0698	~~.1294~~ .0692	~~.1276~~ .0668	~~.127~~ .067
	Co	.046	.042	.040	.042	.041	.041
	Pb	.0315	.0305	.031	.032	.032	.032
	Ag	~~.125~~ .090	.103	.098	.094	.090	.091
	ZN	.139	.142	.144	.143	.141	.1405
	MN	5 3 5 3 5 2 5 2 5 3	6 4 6 3 6 4 6 3 6 5	5 3 5 2 5 3 5 2 5 3	4 9 5 0 5 1 4 9 9 9	5 6 5 6 5 7 5 7 5 8	5 4 5 3 5 3 5 2 5 2
	Fe	4 4 4 5 4 3 4 6 4 4	—	4 5 4 5 4 4 4 4 4 3	4 5 4 6 4 7 4 6 4 5	—	4 4 4 6 4 3 4 4 4 2
C	Cu	.1282	.1292	.131	.1294	.1276	.127
	Co	.078	.074	.072	.073	.073	.0725
	Pb	.055	.0545	.055	.056	.056	.0555
	Ag	.170	.174	.171	.182	.175	.171
	ZN	.259	.261	.262	.261	.262	.254
	MN	100 99 100 99 99	111 111 110 109 111	102 100 100 100 100	101 99 100 100 100	102 102 101 100 100	99 100 100 98 98
	Fe	8 7 8 7 8 7 8 7 8 6	—	8 7 8 6 8 4 8 6 8 4	8 4 8 4 8 7 8 7 8 5	—	4 5 8 6 8 7 8 6 8 5

	$MgCl_2$ Fe	Mn	Cu	Co	Pb	Ag	Zn
012	0	.0339	.0448 ~~.2586~~	.4029	.2179	.0023	.0390
014	.00724 ~~[illegible]~~	.0447	.0430 ~~.2545~~	.4418	.2403	0	.0490
018	0	.0443	.0190 ~~.2167~~	.3529	.2039	0	.0484
020	0	.0378	.0432 ~~.2523~~	.3383	.24	0	.0352
021	0	.0430	.0399 ~~.2494~~	.3727	.2258	.0281 ~~.3115~~	.0507
025	0	.0450	.0336 ~~.2386~~	.4264	.2531	0	.0355
026	0	.0456	.0268 ~~.2297~~	.3608	.2137	.0532	.0428
033	.01165	.0471	.0456 ~~.2362~~	.3697	.2065	.0751 ~~.1125~~	.0468
034	0	.0216	.0447 ~~.2550~~	.3754	.2326	.1125	.0541
036	.01395	.0296	.0616 ~~.2779~~	.4369	.2177	.0602	.0564
045	.0236	.0253	.0569 ~~.2664~~	.4706	.2531	.0909	.0643
046	.0185	.0349	.0687 ~~.2711~~	.3636	.2459	0	.0490
047	.0279	.0309	.0623 ~~.2704~~	.3914	.3000	.0817	.0445
22	0	.1514	.0683 ~~.2781~~	.2515	.2510	.0957	.0554
27	.0285	.0383	.0889 ~~.3191~~	.2215	.2530	.3846	.0645
30	.0472	.0963	.0633 ~~.2750~~	.2615	.2939	0	.0605
31	0	.0589	.0365 ~~.2477~~	.2523	.3127	0	.0570
33	~~.00466~~ .00466	.0257	.0366 ~~.2438~~	0.24	.3016	.0511	.0546

MgC

		SAN94-039A	SAN94-010	SAN94-038	SAN94-049	SAN94-029	SAN94-031
A	Cu	2 2 2 2 3	3 2 2 3 3	1 1 0 1 0	3 2 2 2 1	2 2 1 2 2	2 2 3 3 3
	Co	1 2 1 3 1 3 1 3	9 9 9 9 9	9 9 9 9 9	10 10 10 10 10	11 11 10 10 10	10 10 10 10 10
	Pb	3 4 3 4 4	6 6 7 5 6	3 4 3 3 3	4 4 5 6 5	5 5 4 5 4	5 4 4 4 5
	Ag	2 3 2 1	0 1 0 2 1	0 0 0 0 0	0 0 0 0 0	3 2 2 2 1	0 0 0 0 0
	Zn	9 8 7 9 8	9 8 9 9 9	10 11 11 11 11	7 8 7 8 7	10 10 9 10 10	7 7 8 7 7
	MN		5 4 5 5 5	7 7 6 6 6	3 3 2 2 3	26 27 24 26 25	3 2 5 4 2
	Fe	6 7 6 7 6 / 1 0 0 0 1	0 0 0 0 0	1 0 0 0 0	2 1 0 3 2	2 2 2 5 4	3 5 4 4 1
B	Cu	4 9 4 9 4 9 4 9 4 9	4 6 4 6 4 6 4 6 4 6	4 7 4 7 4 6 4 7 4 7	4 6 4 6 4 6 4 6 4 6	4 5 4 5 4 5 4 5 4 5	4 4 4 5 4 4 4 5 4 4
	Co	2 3 2 3 2 8 2 8 2 8	2 8 2 8 2 8 2 9 2 9	2 8 2 7 2 6 2 7 2 7	2 9 2 8 2 9 2 8 2 8	3 0 3 1 3 0 3 0 2 9	2 7 2 6 2 6 2 7 2 7
	Pb	8 8 8 9 9 1 9 0 9 0	8 8 7 8 7 8 6 8 8	8 5 8 8 8 6 8 7 8 5	8 5 8 7 8 8 8 6 8 9	8 5 8 5 8 6 8 2 8 4	8 5 8 6 8 7 8 5 8 6
	Ag	1 3 8 1 3 7 1 3 7 1 3 8 1 3 9	1 3 0 1 3 0 1 3 0 1 3 1 1 2 9	1 3 8 1 3 8 1 4 0 1 3 8 1 3 7	1 3 3 1 3 2 1 3 4 1 3 3 1 3 2	1 3 7 1 3 6 1 3 5 1 3 7 1 3 5	1 3 4 1 3 6 1 3 5 1 3 4 1 3 5
	Zn	5 3 5 6 5 3 5 3 5 4	5 6 5 5 5 7 5 7 5 6	5 7 5 8 5 9 5 7 5 8	5 4 5 2 5 2 5 4 5 3	7 7 7 6 7 7 7 9 7 6	5 6 5 8 5 7 5 6 5 7
	MN	4 8 4 6 4 2 4 4 4 0	4 6 4 6 4 8 4 2 4 5	4 7 4 5 4 5 4 7 4 5	4 8 4 6 4 9 4 7 4 0	5 1 5 1 5 1 5 3 5 4	4 9 5 1 4 8 5 0 5 2
	Fe						
C	Cu	8 7 8 7 8 6 7 8 7	8 3 8 3 8 2 8 3 8 3	8 0 8 0 8 0 7 9 7 9	8 0 8 0 8 1 8 0 8 0	8 2 8 2 8 1 8 2 8 0	7 8 7 8 7 7 7 8 7 8
	Co	5 3 5 2 5 1 5 3 5 0	5 2 5 1 5 2 5 0 5 1	5 0 5 1 5 0 4 9 4 9	5 3 5 3 5 4 5 3 5 4	5 5 5 3 5 3 5 3 5 2	5 3 5 3 5 4 5 3 5 2
	Pb	1 7 4 1 7 3 1 7 4 1 7 1 1 7 4	1 7 1 1 7 4 1 7 5 1 7 4 1 7 2	1 7 4 1 7 7 1 7 7 1 7 4 1 7 3	1 7 2 1 7 4 1 7 3 1 7 3 1 7 5	1 7 7 1 7 5 1 7 5 1 7 4 1 7 4	1 6 8 1 7 0 1 7 0 1 7 3 1 7
	Ag	2 5 4 2 5 5 2 5 4 2 5 5 2 5 1	2 5 6 2 5 5 2 5 8 2 5 5 2 5 7	2 5 5 2 5 6 2 5 6 2 5 5 2 5 6	2 5 1 2 5 1 2 5 2 2 5 0 2 5 1	2 5 5 2 5 4 2 5 6 2 5 4 2 5 5	2 5 3 2 5 2 2 5 0 2 4 9 2 5 1
	Zn	1 0 1 1 0 2 1 0 3 1 0 1 1 0 1	1 0 6 1 0 5 1 0 7 1 0 6 1 0 6	1 0 9 1 0 6 1 0 9 1 0 8 1 0 9	1 0 5 1 0 6 1 0 7 1 0 9 1 0 8	1 2 8 1 2 7 1 2 8 1 2 7 1 2 9	1 0 7 1 0 7 1 0 6 1 0 7 1 0 2
	MN	9 0 9 0 9 1 3 8 8 9	9 9 1 9 1 9 0 8 7	9 1 9 1 8 8 8 9 9 0	9 8 9 7 9 9 1 0 0 1 0 3	1 0 3 1 0 2 9 8 1 0 1 9 8	1 0 1 1 0 2 1 0 1 1 0 3 1 0 3
	Fe						

Mg 2

		SAN94-028	SAN94-008	SAN94-043	SAN94-037	SAN94-017	SAN94-016
A	Cu	4 3 3 4 4	3 3 3 2 3	5 5 5 4 6	1 1 2 1 1	2 2 2 2 1	3 4 3 2 4
	Co	5 5 5 5 4	9 8 8 8 8	6 6 6 6 6	11 12 11 12 12	10 9 10 10 10	10 9 10 10 10
	Pb	4 5 5 5 6	4 5 5 6 5	5 5 5 5 5	6 5 6 6 6	5 5 5 6 6	4 4 4 4 4
	Ag	0 0 0 1 0	1 1 0 0 0	2 2 3 2 0	0 0 0 0 0	0 0 2 1 0	0 0 0 0 1
	ZN	9 9 8 7 7	7 7 7 7 7	9 8 8 9 8	5 6 6 6 5	4 5 4 5 4	6 5 5 5 5
	Fe	0 1 0 1 0	0 4 4 4 2 1	1 1 4 5 4	3 3 2 2 5	2 2 0 1 2	0 5 4 3 5
	MN	5 6 5 6 6	4 3 4 1 2	8 11 11 8 5	3 3 3 2 2	4 6 5 4 5	2 3 4 3 2
B	Cu	63 62 63 64 63	62 63 62 61 62	62 62 62 61 61	60 60 60 61 60	60 59 59 60 58	60 61 61 61 61
	Co	45 45 45 45 45	45 46 46 46 46	43 43 43 43 43	49 49 49 49 49	47 47 46 47 46	47 46 46 47 46
	Pb	28 29 29 29 28	30 32 30 31 31	28 28 30 30 28	27 27 28 28 28	29 29 29 29 30	28 27 28 27 27
	Ag	85 86 86 85 85	86 86 88 87 87	88 84 88 86 84	83 85 85 84 83	85 83 85 85 85	84 84 84 84 85
	ZN	133 132 133 132 132	132 133 135 132 132	134 134 135 134 136	131 131 131 130 131	131 132 132 131 133	131 131 131 132 131
	Fe	47 46 49 48 48	51 51 46 50 47	52 54 52 52 50	55 52 49 50 51	52 48 53 52 52	53 54 53 53 52
	MN	55 56 56 55 57	53 52 53 53 53	58 59 60 57 56	53 51 51 51 52	57 57 57 57 58	53 54 56 53 54
C	Cu	123 124 124 125 125	121 123 120 122 121	121 119 120 121 120	119 119 117 116 118	118 119 120 120 120	121 120 119 120 120
	Co	84 85 84 84 84	84 84 82 83 84	80 81 79 79 79	86 86 84 86 85	83 83 82 82 82	83 82 82 84 82
	Pb	53 53 52 52 53	53 53 54 53 54	54 54 53 54 54	53 52 52 52 53	54 55 53 54 53	52 51 51 51 51
	Ag	174 173 176 172 172	171 171 172 169 171	174 173 174 174 174	169 171 168 166 168	171 168 168 166 169	170 173 172 171 169
	ZN	249 249 251 250 250	252 251 253 253 251	253 253 252 253 254	250 249 252 250 249	249 249 250 249 250	247 251 249 249 249
	Fe	93 93 98 97 92	96 96 98 96 94	100 100 99 98 102	103 104 102 102 104	98 96 96 96 95	100 98 100 100 101
	MN	106 106 106 107 106	101 101 103 100 101	110 107 110 110 109	104 104 101 100 102	109 109 109 110 108	104 108 104 107 104

$MgCl_2$

		SAN94-032	SAN94-044	SAN94-051	SAN94-023	SAN94-024	SAN94-039B
A	Cu	5 5 4 4 4	4 4 4 4 4	3 8 3 9 3 9 3 8 3 8	3 3 3 3 3	4 3 3 3 2	~~2 2 1 1 6~~
	Co	9 8 9 9 9	9 9 9 9 9	23 23 22 23 23	10 10 10 10 10	11 11 11 11 11	1 1 7 8 7 7 8
	Pb	4 4 4 5 4	4 4 3 4 4	5 5 5 4 5	5 5 6 5 6	5 5 4 5 5	5 6 5 5 6
	Ag	0 0 0 0 0	0 2 2 1 3	2 2 2 4 2	1 1 1 2 1	4 4 2 5 3	0 0 1 1 0
	ZN	6 7 7 6 6	9 9 10 9 9	9 9 10 9 9	5 6 6 6 6	7 6 6 6 6	5 5 5 5 5
	Fe	4 3 3 4 2	2 3 1 3 4	1 0 3 0 2	1 2 0 2 3	0 1 1 1 0	1 0 2 0 0
	MN	6 7 7 7 8	5 6 4 3 4	12 11 13 12 13	4 4 4 5 5	5 4 4 6 5 ~~4 2 2 2 2~~	8 9 7 9 7
B	Cu	61 63 62 62 62	63 62 62 64 63	95 95 96 94 96	62 62 62 62 62	59 60 60 61 60	58 60 57 59 58
	Co	46 46 46 46 46	47 47 47 47 47	61 60 61 60 60	48 47 48 48 48	48 48 48 48 48	45 44 44 45 44
	Pb	28 27 27 27 28	27 26 26 27 26	28 28 27 28 28	29 29 28 28 29	30 30 29 29 30	29 31 30 31 31
	Ag	81 83 83 83 83	83 86 84 88 87	91 91 90 89 90	86 86 89 88 88	88 89 89 88 88	86 86 86 87 86
	ZN	134 134 133 132 132	135 133 134 135 133	147 147 147 148 147	131 132 132 134 132	132 132 132 132 132	130 128 129 128 131
	Fe	54 52 55 55 55	51 55 53 52 55	48 49 50 50 47	50 49 54 47 49	48 46 50 45 46	48 47 44 45 44
	MN	57 57 57 59 57	55 55 56 56 57	64 65 66 64 64	54 55 54 55 54	54 56 54 56 55 ~~51 53 52 53 50~~	56 59 58 58 57
C	Cu	119 119 120 121 119	122 122 122 122 123	154 154 155 155 155	122 121 121 119 119	119 119 119 119 118	115 115 115 116 116
	Co	81 81 81 82 81	83 83 84 84 83	97 96 96 95 96	84 85 84 84 84	83 84 83 83 83	79 79 78 78 79
	Pb	50 49 50 50 50	51 51 49 51 50	50 51 51 51 51	53 54 54 52 54	53 54 54 53 54	54 54 55 54 54
	Ag	170 172 175 171 173	175 168 170 172 173	176 172 175 175 176	174 175 177 175 173	173 174 175 176 174	172 170 169 171 168
	ZN	250 253 252 250 251	249 251 254 254 253	251 251 252 250 253	250 251 252 251 248	251 249 251 251 249	248 246 247 245 244
	Fe	100 101 103 101 101	102 101 101 99 98	94 96 97 96 96	97 97 98 97 95	92 93 92 91 91	92 92 91 92 92
	MN	110 110 110 110 109	108 106 106 107 109	116 116 114 115 117	105 105 103 104 105	~~101 99 99 103 100~~ 106 103 104 104 106	109 107 110 109 109

$MgCl_2$

	Cu	Zn	Mn	Fe
23	.0715	.0574	.0625	.0207
24	.0723	.0943	.1209	.0266
38	.0793	.0598	.0306	.0145
39	.0471	.0557	.0379	0
41	.0604	.0569	.0411	.0042
46	.0579	.0726	.0285	0
47	.0450	.0469	.0493	.0252
49	.0597	.0536	.0451	0
050		.0969	.1319	.0318
044-1	.0631	.0413	.0306	.0142
044-2	.0661	.0649	.0309	.0165
017-1	.0501	.0418	.0344	.0162

Cosme
3694
Serial No
96-6708

$MgCl_2$

		SAN-023	SAN-024	SAN-038	SAN-039	SAN-041
A	Cu	3 3 3 3 3	3 3 4 4 3	3 3 4 4 4	2 2 2 2 2	2 3 3 3 3
	Zn	12 13 13 13 12	18 17 18 17 18	10 11 11 11 12	11 12 12 12 12	13 14 13 13 13
	Mn	6 6 6 6 7	12 10 11 11 12	3 3 3 3 3	3 3 4 4 3	4 3 5 4 3
	Fe	0 0 0 1 0	0 1 0 0 1	1 1 1 0 0	0 0 0 0 0	0 0 0 1 1
B	Cu	0615	0605	060	059	059
	Zn	141	150	137	132	129
	Mn	.057	.061	.052	.053	.053
	Fe	.051	.052	.049	—	.047
C	Cu	115	114	112	112.5	112
	Zn	260	254	245	245	245
	Mn	.107	.108	.101	.101	.101
	Fe	.097	.098	.097	—	.095

$MgCl_2$

		SAN-046	SAN-047	SAN-049	SAN94-050
A	Cu	3 3 3 3 3 ~~.003~~	2 2 2 2 2 ~~.0025~~	2 2 3 3 2 ~~.002~~	.012 ~~1.012~~
	ZN	19 19 19 19 19	10 9 10 10 9	12 12 12 12 12	23 22 22 22 23
	MN	3 3 3 2 3	4 3 4 4 3	4 4 5 3 4	12 13 12 12 12
	Fe	0 0 0 0 0	1 1 0 0 1 0	0 0 0 0 0	0 0 2 1 1
B	Cu	~~.061~~ .059	~~.062~~ .059	.060	
	ZN	~~128 129~~ 130	131	130	132
	MN	.052	.056	.054	.062
	Fe	—	.050	—	.050
C	Cu	~~118~~ 113	~~118~~ 113	~~118~~ 113	
	ZN	~~246~~ 253	244	245	248
	MN	.101	.101	.1015	.1085
	Fe	—	.096	—	.095

MgCl

		SAN94-044-1	SAN94-044-2	SAN94-017-1
A	Cu	3 3 3 3 3	3 3 3 3 3	2 2 2 3 2
	ZN	9 9 9 9 9	14 13 14 14 14	9 9 9 8 9
	MN	3 3 3 3 3	3 2 4 3 3	3 4 2 3 3
	Fe	0 0 1 1 1	1 1 1 1 1	1 1 1 1 0
B	Cu	~~.015~~ ~~.015~~ .060	.061	.060
	ZN	.130	.135	.129
	MN	.052	.0515	.052
	Fe	.050	.049	.049
C	Cu	~~.118~~ .114	~~.115~~ .115	~~.110~~ .114
	ZN	.246	.248	.243
	MN	.101	.100	.099
	Fe	.099	.098	.099

Santorini leachate analyses					
NaOAc					
Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Cu (ppm)
SAN94-008	8	1.03	0.0946	2	1.46951456
SAN94-010	8	1.034	0.072	2	1.11411992
SAN94-012	8	1.032	0.1081	2	1.67596899
SAN94-014	8	1.033	0.0763	2	1.18180058
SAN94-016	8	1.027	0.0768	2	1.19649464
SAN94-017	8	1.031	0.0981	2	1.52240543
SAN94-018	8	1.03	0.1133	2	1.76
SAN94-020	8	1.03	0.1404	2	2.18097087
SAN94-021	8	1.033	0.1085	2	1.68054211
SAN94-023	8	1.032	0.0949	2	1.47131783
SAN94-024	8	1.032	0.1584	2	2.45581395
SAN94-025	8	1.025	0.0922	2	1.43921951
SAN94-026	8	1.026	0.1145	2	1.78557505
SAN94-028	8	1.031	0.121	2	1.87778855
SAN94-029	8	1.033	0.075	2	1.16166505
SAN94-031	8	1.03	0.104	2	1.61553398
SAN94-032	8	1.031	0.0633	2	0.98234724
SAN94-033	8	1.029	0.0814	2	1.26569485
SAN94-034	8	1.032	0.0776	2	1.20310078
SAN94-036	8	1.021	0.0734	2	1.15024486
SAN94-037	8	1.033	0.1241	2	1.92216844
SAN94-038	8	1.029	0.0567	2	0.88163265
SAN94-039A	8	1.027	0.0784	2	1.22142162
SAN94-039B	8	1.022	0.0754	2	1.18043053
SAN94-043	8	1.032	0.1471	2	2.28062016
SAN94-044	8	1.029	0.1117	2	1.73683188
SAN94-045	8	1.029	0.0806	2	1.25325559
SAN94-046	8	1.036	0.0821	2	1.26795367
SAN94-047	8	1.034	0.0784	2	1.2131528
SAN94-049	8	1.034	0.0952	2	1.47311412
SAN94-051	8	0.513	0.21	1000	3274.8538
SAN-022	8	1.032	0.0651	2	1.00930233
SAN-027	8	1.028	0.1312	2	2.04202335
SAN-030	8	1.021	0.1168	2	1.83036239
SAN-031	8	1.03	0.0997	2	1.54873786
SAN-033	8	1.029	0.0976	2	1.51758989
SAN-023	8	1.024	0.1364	2	2.13125
SAN-024	8	1.03	0.1061	2	1.64815534
SAN-038	8	1.03	0.1177	2	1.82834951
SAN-039	8	1.029	0.0941	2	1.46316812
SAN-041	8	1.023	0.1311	2	2.05043988

SAN-046	8	1.016	0.124	2	1.95275591
SAN-047	8	1.028	0.0825	2	1.28404669
SAN-049	8	1.021	0.136	2	2.13124388
SAN94-050	8	0.5075	4.6817	1000	73800.197
SAN94-044-1	8	1.029	0.1211	2	1.8829932
SAN94-044-2	8	1.025	0.1106	2	1.72643902
SAN94-017-1	8	1.025	0.124	2	1.93560976
Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Co (ppm)
SAN94-008	8	1.03	0.2455	2	3.81359223
SAN94-010	8	1.034	0.2135	2	3.30367505
SAN94-012	8	1.032	0.2906	2	4.50542636
SAN94-014	8	1.033	0.252	2	3.90319458
SAN94-016	8	1.027	0.8338	2	12.9900682
SAN94-017	8	1.031	0.2708	2	4.20252182
SAN94-018	8	1.03	0.1983	2	3.08038835
SAN94-020	8	1.03	0.1994	2	3.09747573
SAN94-021	8	1.033	0.2	2	3.09777348
SAN94-023	8	1.032	0.3251	2	5.04031008
SAN94-024	8	1.032	0.3231	2	5.00930233
SAN94-025	8	1.025	0.2939	2	4.58770732
SAN94-026	8	1.026	0.1715	2	2.67446394
SAN94-028	8	1.031	0.3761	2	5.83666343
SAN94-029	8	1.033	0.449	2	6.95450145
SAN94-031	8	1.03	0.5718	2	8.8823301
SAN94-032	8	1.031	0.2836	2	4.40116392
SAN94-033	8	1.029	0.1853	2	2.88124393
SAN94-034	8	1.032	0.2053	2	3.18294574
SAN94-036	8	1.021	0.2402	2	3.76415279
SAN94-037	8	1.033	0.75	2	11.6166505
SAN94-038	8	1.029	0.4193	2	6.51972789
SAN94-039A	8	1.027	2.4157	2	37.6350536
SAN94-039B	8	1.022	0.24157	2	3.78191781
SAN94-043	8	1.032	0.287	2	4.4496124
SAN94-044	8	1.029	0.2328	2	3.61982507
SAN94-045	8	1.029	0.4149	2	6.45131195
SAN94-046	8	1.036	0.1377	2	2.12664093
SAN94-047	8	1.034	0.1557	2	2.40928433
SAN94-049	8	1.034	0.7243	2	11.2077369
SAN94-051	8	0.513	2.428	2	75.7270955
SAN-022	8	1.032	0.1686	2	2.61395349
SAN-027	8	1.028	0.1564	2	2.43424125
SAN-030	8	1.021	0.1295	2	2.02938296
SAN-031	8	1.03	0.3263	2	5.06873786
SAN-033	8	1.029	0.1687	2	2.62312925

Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Pb (ppm)
SAN94-008	8	1.03	0.1409	2	2.18873786
SAN94-010	8	1.034	0.1883	2	2.91373308
SAN94-012	8	1.032	0.0735	2	1.13953488
SAN94-014	8	1.033	0.0341	2	0.52817038
SAN94-016	8	1.027	0.1562	2	2.43349562
SAN94-017	8	1.031	0.2325	2	3.60814743
SAN94-018	8	1.03	0.0836	2	1.29864078
SAN94-020	8	1.03	0.1167	2	1.81281553
SAN94-021	8	1.033	0.0814	2	1.2607938
SAN94-023	8	1.032	0.1348	2	2.08992248
SAN94-024	8	1.032	0.141	2	2.18604651
SAN94-025	8	1.025	0.1012	2	1.57970732
SAN94-026	8	1.026	0.1186	2	1.84951267
SAN94-028	8	1.031	0.141	2	2.18816683
SAN94-029	8	1.033	0.1937	2	3.00019361
SAN94-031	8	1.03	0.2009	2	3.1207767
SAN94-032	8	1.031	0.1403	2	2.17730359
SAN94-033	8	1.029	0.052	2	0.80855199
SAN94-034	8	1.032	0.1134	2	1.75813953
SAN94-036	8	1.021	0.0354	2	0.55475024
SAN94-037	8	1.033	0.1826	2	2.82826718
SAN94-038	8	1.029	0.1222	2	1.90009718
SAN94-039A	8	1.027	0.1722	2	2.68276534
SAN94-039B	8	1.022	0.1502	2	2.35146771
SAN94-043	8	1.032	0.0454	2	0.70387597
SAN94-044	8	1.029	0.1652	2	2.56870748
SAN94-045	8	1.029	0.0426	2	0.66239067
SAN94-046	8	1.036	0.0555	2	0.85714286
SAN94-047	8	1.034	0.0632	2	0.97794971
SAN94-049	8	1.034	0.1333	2	2.06266925
SAN94-051	8	0.513	0.1867	2	5.82300195
SAN-022	8	1.032	0.0097	2	0.1503876
SAN-027	8	1.028	0.0873	2	1.35875486
SAN-030	8	1.021	0.0827	2	1.29598433
SAN-031	8	1.03	0.0426	2	0.66174757
SAN-033	8	1.029	0	2	0

Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Ag (ppm)
SAN94-008	8	1.03	0.0429	2	0.66640777
SAN94-010	8	1.034	0.0491	2	0.75976789
SAN94-012	8	1.032	0.0166	2	0.25736434
SAN94-014	8	1.033	0.0459	2	0.71093901
SAN94-016	8	1.027	0.0338	2	0.52658228
SAN94-017	8	1.031	0.0339	2	0.52609117
SAN94-018	8	1.03	0.0136	2	0.21126214
SAN94-020	8	1.03	0.0429	2	0.66640777
SAN94-021	8	1.033	0.0282	2	0.43678606
SAN94-023	8	1.032	0	2	0
SAN94-024	8	1.032	0.0306	2	0.4744186
SAN94-025	8	1.025	0.0389	2	0.60721951
SAN94-026	8	1.026	0	2	0
SAN94-028	8	1.031	0.0349	2	0.54161009
SAN94-029	8	1.033	0.0327	2	0.50648596
SAN94-031	8	1.03	0.0241	2	0.37436893
SAN94-032	8	1.031	0.0456	2	0.70766246
SAN94-033	8	1.029	0.0546	2	0.84897959
SAN94-034	8	1.032	0.0327	2	0.50697674
SAN94-036	8	1.021	0.0267	2	0.41841332
SAN94-037	8	1.033	0.0307	2	0.47550823
SAN94-038	8	1.029	0.0348	2	0.54110787
SAN94-039A	8	1.027	0.0327	2	0.50944499
SAN94-039B	8	1.022	0.028	2	0.43835616
SAN94-043	8	1.032	0.028	2	0.43410853
SAN94-044	8	1.029	0.0504	2	0.78367347
SAN94-045	8	1.029	0	2	0
SAN94-046	8	1.036	0	2	0
SAN94-047	8	1.034	0.0734	2	1.13578337
SAN94-049	8	1.034	0.0621	2	0.96092843
SAN94-051	8	0.513	0.0584	2	1.8214425
SAN-022	8	1.032	0.0099	2	0.15348837
SAN-027	8	1.028	0.0222	2	0.34552529
SAN-030	8	1.021	0.0214	2	0.33535749
SAN-031	8	1.03	0.01	2	0.15533981
SAN-033	8	1.029	0	2	0

Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Zn (ppm)
SAN94-008	8	1.03	0.1375	2	2.13592233
SAN94-010	8	1.034	0.1383	2	2.14003868
SAN94-012	8	1.032	0.2461	2	3.81550388
SAN94-014	8	1.033	0.1195	2	1.85091965
SAN94-016	8	1.027	0.135	2	2.10321324
SAN94-017	8	1.031	0.1886	2	2.92686712
SAN94-018	8	1.03	0.1412	2	2.19339806
SAN94-020	8	1.03	0.2104	2	3.26834951
SAN94-021	8	1.033	0.1325	2	2.05227493
SAN94-023	8	1.032	0.152	2	2.35658915
SAN94-024	8	1.032	0.2394	2	3.71162791
SAN94-025	8	1.025	0.1431	2	2.2337561
SAN94-026	8	1.026	0.1071	2	1.67017544
SAN94-028	8	1.031	0.136	2	2.11057226
SAN94-029	8	1.033	0.0999	2	1.54733785
SAN94-031	8	1.03	0.1109	2	1.72271845
SAN94-032	8	1.031	0.126	2	1.95538312
SAN94-033	8	1.029	0.1072	2	1.66686103
SAN94-034	8	1.032	0.0914	2	1.41705426
SAN94-036	8	1.021	0.0951	2	1.49030362
SAN94-037	8	1.033	0.1671	2	2.58818974
SAN94-038	8	1.029	0.1613	2	2.50806608
SAN94-039A	8	1.027	0.1135	2	1.76825706
SAN94-039B	8	1.022	0.2195	2	3.43639922
SAN94-043	8	1.032	0.036	2	0.55813953
SAN94-044	8	1.029	0.1575	2	2.44897959
SAN94-045	8	1.029	0.1215	2	1.88921283
SAN94-046	8	1.036	0.1128	2	1.74208494
SAN94-047	8	1.034	0.1011	2	1.56441006
SAN94-049	8	1.034	0.206	2	3.18762089
SAN94-051	8	0.513	0.43	2	13.411306
SAN-022	8	1.032	0.1075	2	1.66666667
SAN-027	8	1.028	0.0513	2	0.79844358
SAN-030	8	1.021	0.0952	2	1.49187071
SAN-031	8	1.03	0.0585	2	0.90873786
SAN-033	8	1.029	0.1064	2	1.65442177
SAN-023	8	1.024	0.0725	2	1.1328125
SAN-024	8	1.03	0.0947	2	1.47106796
SAN-038	8	1.03	0.1346	2	2.09087379
SAN-039	8	1.029	0.1271	2	1.97628766
SAN-041	8	1.023	0.1411	2	2.20684262
SAN-046	8	1.016	0.1394	2	2.19527559
SAN-047	8	1.028	0.159	2	2.47470817
SAN-049	8	1.021	0.1425	2	2.2331048

SAN94-050	8	0.5075	1.417	2	44.6738916
SAN94-044-1	8	1.029	0.1822	2	2.83304179
SAN94-044-2	8	1.025	0.1845	2	2.88
SAN94-017-1	8	1.025	0.1586	2	2.47570732
Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Fe (ppm)
SAN94-008	8	1.03	0.0338	10	2.62524272
SAN94-010	8	1.034	0.1448	10	11.2030948
SAN94-012	8	1.032	0.4199	10	32.5503876
SAN94-014	8	1.033	0.3995	10	30.9390126
SAN94-016	8	1.027	0.5592	10	43.5598832
SAN94-017	8	1.031	0.1798	10	13.9515034
SAN94-018	8	1.03	0.1409	10	10.9436893
SAN94-020	8	1.03	0.187	10	14.5242718
SAN94-021	8	1.033	0.1146	10	8.87512101
SAN94-023	8	1.032	0.0724	10	5.6124031
SAN94-024	8	1.032	0	10	0
SAN94-025	8	1.025	0.0659	10	5.14341463
SAN94-026	8	1.026	0.0203	10	1.582846
SAN94-028	8	1.031	0.046	10	3.56935015
SAN94-029	8	1.033	0	10	0
SAN94-031	8	1.03	0	10	0
SAN94-032	8	1.031	0.1956	10	15.1774976
SAN94-033	8	1.029	0.1528	10	11.8794947
SAN94-034	8	1.032	0.1506	10	11.6744186
SAN94-036	8	1.021	0.1436	10	11.251714
SAN94-037	8	1.033	0.1267	10	9.81219748
SAN94-038	8	1.029	1.2479	10	97.0184645
SAN94-039A	8	1.027	0.8156	10	63.5326193
SAN94-039B	8	1.022	0.9887	10	77.3933464
SAN94-043	8	1.032	0.0172	10	1.33333333
SAN94-044	8	1.029	0	10	0
SAN94-045	8	1.029	0.1081	10	8.404276
SAN94-046	8	1.036	0.0537	10	4.14671815
SAN94-047	8	1.034	0.16	10	12.3791103
SAN94-049	8	1.034	0.0956	10	7.39651838
SAN94-051	8	0.513	3.342	10	521.169591
SAN-022	8	1.032	0	10	0
SAN-027	8	1.028	0	10	0
SAN-030	8	1.021	0	10	0
SAN-031	8	1.03	0	10	0
SAN-033	8	1.029	0	10	0
SAN-023	8	1.024	0	10	0
SAN-024	8	1.03	0	10	0
SAN-038	8	1.03	0.0303	10	2.35339806

SAN-039	8	1.029	0.1444	10	11.2264334
SAN-041	8	1.023	0.0674	10	5.27077224
SAN-046	8	1.016	0.1304	10	10.2677165
SAN-047	8	1.028	0.1158	10	9.01167315
SAN-049	8	1.021	0.1168	10	9.15181195
SAN94-050	8	0.5075	0.1351	10	21.2965517
SAN94-044-1	8	1.029	0.0382	10	2.96987366
SAN94-044-2	8	1.025	0.0485	10	3.78536585
SAN94-017-1	8	1.025	0.1608	10	12.5502439
Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Mn (ppm)
SAN94-008	8	1.03	0.12	10	9.32038835
SAN94-010	8	1.034	0.1181	10	9.13733075
SAN94-012	8	1.032	0.1147	10	8.89147287
SAN94-014	8	1.033	0.1095	10	8.48015489
SAN94-016	8	1.027	0.105	10	8.17916261
SAN94-017	8	1.031	0.0691	10	5.36178468
SAN94-018	8	1.03	0.1111	10	8.62912621
SAN94-020	8	1.03	0.1318	10	10.2368932
SAN94-021	8	1.033	0.0922	10	7.14036786
SAN94-023	8	1.032	0.1149	10	8.90697674
SAN94-024	8	1.032	0.1212	10	9.39534884
SAN94-025	8	1.025	0.121	10	9.44390244
SAN94-026	8	1.026	0.1	10	7.79727096
SAN94-028	8	1.031	0.082	10	6.36275461
SAN94-029	8	1.033	0.2671	10	20.6853824
SAN94-031	8	1.03	0.1214	10	9.42912621
SAN94-032	8	1.031	0.0889	10	6.89815713
SAN94-033	8	1.029	0.065	10	5.05344995
SAN94-034	8	1.032	0.0655	10	5.07751938
SAN94-036	8	1.021	0.0633	10	4.95984329
SAN94-037	8	1.033	0.0829	10	6.42013553
SAN94-038	8	1.029	0.092	10	7.15257532
SAN94-039A	8	1.027	0.099	10	7.71178189
SAN94-039B	8	1.022	0.1066	10	8.3444227
SAN94-043	8	1.032	0.1788	10	13.8604651
SAN94-044	8	1.029	0.1109	10	8.62196307
SAN94-045	8	1.029	0.1088	10	8.45869776
SAN94-046	8	1.036	0.0575	10	4.44015444
SAN94-047	8	1.034	0.0637	10	4.92843327
SAN94-049	8	1.034	0.1026	10	7.93810445
SAN94-051	8	0.513	0.7626	10	118.923977
SAN-022	8	1.032	0.231	10	17.9069767
SAN-027	8	1.028	0.1833	10	14.2645914
SAN-030	8	1.021	0.1092	10	8.55631734

SAN-031	8	1.03	0.1465	10	11.3786408
SAN-033	8	1.029	0.0886	10	6.88824101
SAN-023	8	1.024	0.2542	10	19.859375
SAN-024	8	1.03	0.2744	10	21.3126214
SAN-038	8	1.03	0.136	10	10.5631068
SAN-039	8	1.029	0.1019	10	7.92225462
SAN-041	8	1.023	0.0816	10	6.38123167
SAN-046	8	1.016	0.0781	10	6.1496063
SAN-047	8	1.028	0.0696	10	5.41634241
SAN-049	8	1.021	0.0841	10	6.58961802
SAN94-050	8	0.5075	1.5693	10	247.37734
SAN94-044-1	8	1.029	0.1121	10	8.71525753
SAN94-044-2	8	1.025	0.1106	10	8.63219512
SAN94-017-1	8	1.025	0.0871	10	6.79804878

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Co (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0.0074	0.007	0.0108	0.009	0.026	0.008	0.007	0.007	0.007	0.01	0.01	0.01	0.0058	0.012	0.015
2	1	0.0432	0.0444	0.0498	0.0474	0.0598	0.043	0.0432	0.043	0.042	0.0438	0.044	0.0454	0.0406	0.0474	0.0506
3	2	0.0742	0.0782	0.0872	0.0836	0.0898	0.073	0.0786	0.0782	0.077	0.0746	0.075	0.0794	0.0746	0.079	0.0836

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0.0184	0.009	0.006	0.007	0.008	0.023	0.014	0.082	0.0696	0.009	0.007	0.014	0.0046	0.005	0.024	0.0756
2	0.0538	0.044	0.041	0.0412	0.0414	0.058	0.049	0.1196	0.102	0.0424	0.0428	0.0472	0.038	0.039	0.0602	0.1082
3	0.0852	0.076	0.074	0.0752	0.0746	0.087	0.0822	0.1508	0.132	0.0738	0.074	0.081	0.0714	0.0718	0.0922	0.1382

	33	34	35	36	37
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033
1	0.006	0.005	0.004	0.011	0.005
2	0.039	0.038	0.038	0.0436	0.039
3	0.0736	0.0702	0.0704	0.0772	0.0702

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Pb (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0.003	0.004	0.0016	0.0008	0.003	0.0044	0.0022	0.003	0.002	0.0028	0.003	0.0024	0.003	0.003	0.004
2	1	0.0264	0.027	0.03	0.0274	0.0268	0.0278	0.0286	0.0288	0.028	0.0268	0.0264	0.0288	0.0282	0.0264	0.0272
3	2	0.0484	0.0486	0.056	0.0536	0.0478	0.0474	0.0548	0.0544	0.0536	0.0488	0.0484	0.0538	0.0536	0.0484	0.0484

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0.004	0.003	0.001	0.0028	0.001	0.0038	0.0022	0.003	0.0032	0.001	0.0034	0.001	0.0016	0.001	0.003	0.004
2	0.027	0.0264	0.027	0.0276	0.026	0.028	0.0258	0.0258	0.0274	0.028	0.0276	0.027	0.0262	0.03	0.0256	0.027
3	0.0478	0.0486	0.051	0.0522	0.0518	0.0498	0.0464	0.0448	0.0498	0.0538	0.0494	0.0526	0.052	0.0548	0.048	0.049

	33	34	35	36	37
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033
1	0.002	0.0024	0.0018	0.001	0
2	0.028	0.027	0.0282	0.0272	0
3	0.064	0.0528	0.0526	0.0526	0

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Ag (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0.001	0.002	0.0006	0.003	0.0012	0.001	0.001	0.0046	0.0026	0	0.0006	0.0032	0	0.001	0.0006
2	1	0.0822	0.0802	0.0936	0.0908	0.076	0.0792	0.09	0.088	0.0872	0	0.0774	0.0882	0	0.0804	0.0794
3	2	0.1502	0.1486	0.1812	0.173	0.1434	0.1486	0.1776	0.177	0.173	0	0.1444	0.1728	0	0.15	0.1474

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0.0006	0.0012	0.004	0.003	0.003	0.0004	0.0016	0.0006	0.0006	0.0006	0.0016	0	0	0.0058	0.002	0.0024
2	0.0788	0.0774	0.0858	0.0846	0.083	0.0776	0.0794	0.0828	0.076	0.08	0.0814	0	0	0.083	0.0818	0.0816
3	0.15	0.1414	0.165	0.168	0.168	0.1438	0.151	0.1534	0.1432	0.1506	0.1484	0	0	0.161	0.1468	0.1496

	33	34	35	36	37	38
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033	Column 38
1	0.001	0.0018	0.0024	0.001	0	
2	0.0812	0.0826	0.0796	0.08	0	
3	0.1628	0.1636	0.161	0.1604	0	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Cu (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0.0046	0.003	0.0068	0.0044	0.0028	0.004	0.007	0.009	0.007	0.004	0.007	0.006	0.0078	0.006	0.0032
2	1	0.064	0.065	0.0746	0.0718	0.06	0.0618	0.0734	0.0742	0.0716	0.0596	0.0604	0.0698	0.0712	0.0656	0.0638
3	2	0.1188	0.1196	0.14	0.1354	0.1096	0.112	0.1376	0.1386	0.136	0.1094	0.108	0.134	0.137	0.12	0.1178

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0.005	0.0024	0.005	0.005	0.005	0.0054	0.0026	0.003	0.003	0.0068	0.005	0.005	0.005	0.0044	0.0046	
2	0.0644	0.059	0.0696	0.0694	0.0682	0.0632	0.063	0.065	0.0558	0.0648	0.0618	0.0686	0.069	0.068	0.0652	
3	0.1184	0.1098	0.1328	0.1338	0.133	0.1134	0.119	0.1178	0.1038	0.1156	0.1124	0.1316	0.1316	0.13	0.1202	

	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033	SAN-023	SAN-024	SAN-038	SAN-039	SAN-041	SAN-046	SAN-047	SAN-049	SAN94-050	SAN94-044-1	SAN-044-2
1	0.004	0.008	0.007	0.0064	0.006	0.0084	0.006	0.007	0.0058	0.008	0.007	0.0048	0.008	0	0.0072	0.0068
2	0.0672	0.0712	0.0704	0.0692	0.07	0.071	0.07	0.07	0.0675	0.069	0.069	0.066	0.07	0	0.069	0.067
3	0.13	0.133	0.132	0.1328	0.133	0.133	0.1305	0.131	0.129	0.13	0.128	0.126	0.13	0	0.1295	0.128

	49
	SAN94-017-1
1	0.007
2	0.069
3	0.128

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Zn (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0.0326	0.0354	0.0632	0.029	0.0304	0.0464	0.035	0.054	0.037	0.036	0.0588	0.0365	0.028	0.0336	0.0228
2	0.5	0.1636	0.164	0.2052	0.166	0.165	0.171	0.172	0.186	0.172	0.167	0.181	0.172	0.165	0.161	0.1528
3	1	0.2834	0.292	0.331	0.29	0.28	0.294	0.297	0.314	0.311	0.286	0.304	0.3	0.297	0.285	0.271

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0.0276	0.0298	0.026	0.026	0.024	0.0392	0.0384	0.026	0.0518	0.007	0.0382	0.031	0.029	0.026	0.0526	0.1042
2	0.155	0.169	0.164	0.164	0.16	0.1696	0.1678	0.159	0.185	0.138	0.1724	0.167	0.165	0.16	0.178	0.229
3	0.28	0.29	0.289	0.305	0.289	0.287	0.287	0.277	0.301	0.257	0.294	0.296	0.295	0.29	0.306	0.3486

	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033	SAN-023	SAN-024	SAN-038	SAN-039	SAN-041	SAN-046	SAN-047	SAN-049	SAN94-050	SAN94-044-1	SAN94-044-2
1	0.027	0.012	0.021	0.015	0.028	0.017	0.0238	0.034	0.033	0.0354	0.034	0.0394	0.0354	0.357	0.043	0.044
2	0.154	0.148	0.171	0.149	0.162	0.157	0.162	0.167	0.165	0.168	0.167	0.172	0.168	0.483	0.185	0.185
3	0.28	0.275	0.292	0.28	0.294	0.283	0.291	0.294	0.295	0.294	0.29	0.296	0.293		0.302	0.303

	4 9
	SAN94-017-1
1	0.0396
2	0.17
3	0.295

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Fe (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0.001	0.0052	0.0172	0.0174	0.0204	0.006	0.0056	0.0064	0.0038	0.0016	0	0.0034	0.0008	0.0016	0
2	1	0.0372	0.0432	0.0586	0.0614	0.0564	0.0446	0.0412	0.0422	0.0392	0.0406	0	0.035	0.035	0.0364	0
3	2	0.072	0.0798	0.0996	0.105	0.093	0.0794	0.0794	0.077	0.0736	0.0734	0	0.0732	0.0698	0.0712	0
4																
5																

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0	0.007	0.006	0.0046	0.0064	0.0038	0.0456	0.0304	0.0354	0.0006	0	0.003	0.0026	0.007	0.003	0.1206
2	0	0.0436	0.0404	0.039	0.042	0.0426	0.083	0.072	0.0704	0.0356	0	0.038	0.036	0.0416	0.041	0.158
3	0	0.0796	0.078	0.071	0.083	0.0764	0.119	0.1074	0.1066	0.0704	0	0.0696	0.0734	0.082	0.0762	0.193
4																
5																

	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033	SAN-023	SAN-024	SAN-038	SAN-039	SAN-041	SAN-046	SAN-047	SAN-049	SAN94-050	SAN94-044-1	SAN94-044-2
1	0	0	0	0	0.0004	0	0	0.001	0.0068	0.003	0.006	0.006	0.0058	0.0068	0.0018	0.0022
2	0	0	0	0	0.0378	0	0	0.052	0.054	0.051	0.052	0.052	0.052	0.054	0.049	0.05
3	0	0	0	0	0.0794	0	0	0.1	0.101	0.098	0.098	0.101	0.1	0.103	0.096	0.097
4																
5																

	49
	SAN94-017-1
1	0.008
2	0.056
3	0.105
4	
5	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Mn (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0.0098	0.01	0.0138	0.0104	0.0088	0.0062	0.0108	0.0122	0.0086	0.0092	0.01	0.0114	0.0094	0.008	0.023
2	0.5	0.0536	0.0538	0.0648	0.061	0.0508	0.049	0.0594	0.0606	0.0568	0.0528	0.054	0.0584	0.0572	0.0504	0.0642
3	1	0.0948	0.0964	0.1126	0.109	0.0926	0.093	0.108	0.107	0.104	0.0936	0.0958	0.1056	0.1044	0.097	0.1076

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0.0098	0.0072	0.006	0.006	0.0062	0.0066	0.0076	0.0084	0.0098	0.0148	0.0094	0.0104	0.0062	0.006	0.0086	0.0654
2	0.0522	0.051	0.0532	0.0538	0.053	0.05	0.0506	0.0508	0.0528	0.0556	0.0524	0.0582	0.053	0.053	0.052	0.1122
3	0.093	0.0926	0.0998	0.1006	0.101	0.091	0.0924	0.0932	0.098	0.097	0.095	0.106	0.1036	0.1002	0.0944	0.1526

	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033	SAN-023	SAN-024	SAN-038	SAN-039	SAN-041	SAN-046	SAN-047	SAN-049	SAN94-050	SAN94-044-1	SAN94-044-2
1	0.021	0.0176	0.0102	0.0138	0.009	0.0266	0.0286	0.0144	0.011	0.0084	0.008	0.0072	0.0084	0.159	0.0116	0.0116
2	0.068	0.065	0.057	0.061	0.0564	0.0825	0.0835	0.068	0.0625	0.0625	0.061	0.06	0.062	0.208	0.064	0.064
3	0.1132	0.1116	0.1036	0.108	0.106	0.134	0.135	0.121	0.116	0.115	0.113	0.112	0.113	0.26	0.116	0.1165

	49
	SAN94-017-1
1	0.0092
2	0.063
3	0.116

NuOAc

		SAN94-012	SAN94-014	SAN94-018	SAN94-020	SAN94-021	SAN94-025
A	Cu	0 7 4 7 7 7	4 4 5 4 5	7 7 7 7 7	9 9 9 9 9	7 7 7 7 7	6 6 6 6 6
	Co	10 11 11 11 11	9 9 9 9 9	7 7 7 7 7	7 7 7 7 7	7 7 7 7 7	10 10 10 10 10
	Pb	1 0 2 2 2 1	1 1 1 1 0	2 2 2 2 3	3 3 3 3 3	2 2 2 2 2	2 2 3 2 3
	Ag	0 0 1 1 1	3 3 3 3 3	1 1 1 1 1	5 5 5 4 4	2 2 3 3 3	3 3 3 3 4
	ZN	6 3 6 3 6 3 6 4 6 3	.029	.035	.054	.037	.0365
	MN	14 14 14 13 14	10 11 10 10 11	9 11 11 11 10	13 12 12 12 12	9 8 7 9 9	12 12 11 11 11
	Fe	17 17 17 17 18	18 17 18 17 17	6 5 6 6 5	6 6 6 7 7	4 3 4 4 4	3 3 3 4 4
B	Cu	74 75 74 75 75	72 72 72 71 72	73 73 74 74 73	74 75 74 74 74	72 72 71 72 71	70 70 69 70 70
	Co	50 50 50 49 50	47 47 48 48 47	43 43 43 43 44	43 43 43 43 43	42 42 42 42 42	45 45 46 45 46
	Pb	30 30 30 30 30	28 27 27 28 27	28 29 28 29 29	29 29 29 29 28	28 28 28 28 28	28 29 29 29 29
	Ag	92 94 94 93 94	92 91 90 90 90	92 90 89 90 90	88 88 89 89 87	87 87 87 87 88	88 89 88 88 88
	ZN	205 206 205 205 205	.166	.172	.186	.172	.172
	MN	66 64 64 65 64	61 60 60 61 62	60 59 60 59 59	61 60 60 61 61	57 56 57 57 57	58 59 58 58 59
	Fe	58 59 59 59 58	61 61 61 62 62	41 41 42 41 41	42 42 42 42 43	39 39 39 39 40	35 35 35 35 35
C	Cu	139 140 141 139 140	135 135 136 136 135	137 137 138 138 138	138 139 139 139 138	136 136 136 136 136	134 133 133 135 134
	Co	88 87 87 87 87	84 83 84 84 83	79 79 78 78 79	78 78 79 78 78	77 77 77 77 77	80 80 79 79 79
	Pb	56 57 57 56 55	54 53 53 54 54	55 55 55 54 55	55 54 54 55 54	53 53 54 54 54	54 54 53 54 54
	Ag	181 181 182 181 181	174 173 173 174 172	178 178 177 177 178	179 176 177 178 177	173 173 174 172 174	173 173 172 173 173
	ZN	.331	.290	.297	.314	.311	.300
	MN	113 113 111 113 112	109 109 111 109 109	109 108 106 106 108	107 107 108 106 108	104 105 103 102 104	106 107 105 104 105
	Fe	99 100 100 100 99	105 104 104 105 106	78 79 79 80 81	77 77 76 77 78	74 73 72 74 74	74 73 73 73 74

NaOAc

		SAN94-026	SAN94-033	SAN94-034	SAN94-036	SAN94-045	SAN94-046
A	Cu	78888	55555	55555	55555	55555	55555
	Co	66566	66666	77777	88888	14141414	44555
	Pb	33333	11111	23333	11111	11111	22211
	Ag	00000	44444	33333	33333	00000	00000
	ZN	.028	.026	.026	.024	.031	.029
	MN	9109109	66666	66666	66676	10 11 10 10 11	76666
	Fe	0 1 1 2 0 ~~0 0 0 0 0~~	66557	66452	67764	33333	33322
B	Cu	71 72 71 71 71	69 69 70 70 70	69 69 70 69 70	68 68 68 68 69	69 69 68 69 68	69 69 69 69 69
	Co	41 41 41 40 40	41 41 41 41 41	42 41 41 41 41	42 41 42 41 41	47 47 47 48 47	38 38 38 38 38
	Pb	28 28 28 29 28	28 27 27 27 26	27 28 28 28 27	25 26 26 26 27	27 28 27 27 26	26 26 26 27 26
	Ag		85 86 86 86 86	85 85 85 84 84	84 84 83 82 83		
	ZN	.165	.164	.164	.160	.167	.165
	MN	57 57 58 57 57	53 54 53 53 53	54 54 54 53 54	53 52 52 54 51	58 59 58 58 58	53 53 52 54 54
	Fe	36 35 35 34 35	41 40 41 40 40	39 39 39 39 39	42 42 42 42 42	38 38 39 37 38	37 35 36 37 36
C	Cu	136 138 136 137 136	132 133 133 133 133	134 133 135 133 133	133 132 132 134 133	132 131 132 132 132	132 132 130 131 132
	Co	74 74 75 75 75	74 74 74 74 74	75 75 76 75 75	75 75 74 74 75	81 81 81 81 81	72 72 71 71 71
	Pb	54 54 53 54 53	50 52 51 50 51	52 52 53 52 52	52 51 52 52 52	53 52 53 52 53	53 52 51 52 52
	Ag		165 164 168 165 165	169 168 168 167 168	169 168 167 169 168		
	ZN	.297	.289	.305	.289	.296	.295
	MN	105 104 105 104 104	100 99 100 101 100	101 101 101 100 100	101 101 100 102 102	106 107 105 107 105	104 103 104 103 104
	Fe	70 70 70 69 70	78 77 79 79 77	71 71 71 70 72	83 82 84 84 83	69 70 70 70 69	73 73 73 74 74

NaOAc

		SAN94-047	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033
A	Cu	55444	44444	88888	77777	76667	66666
	Co	55555	66666	55555	44444	11111111	55555
	Pb	11111	22222	22332	22122	12011	00000
	Ag	66665	101111	22122	33222	11111	00000
	Zn	.026	.027	.012	.021	.015	.028
	Mn	66666	21212022 21	17171818 18	10 11 10 11 10	14141413 14	99999
	Fe	77768	00000	00000	00000	00000	00101
B	Cu	68686868 68	67676867 67	71727171 71	70707171 70	69696970 69	68697170 70
	Co	39393939 39	39393939 39	38383838 38	38383838 38	43434444 44	39393939 39
	Pb	28313031 30	28282828 28	27272727 27	28282928 28	27272727 28	—
	Ag	84838382 84	81818281 81	82828383 83	79798081 79	79808179 80	—
	Zn	.160	.154	.148	.171	.149	.162
	Mn	52545253 55	68686967 69	66666465 65	58575658 57	60606162 61	57565756 56
	Fe	41424240 42	38383838 37	—	—	—	38383838 37
C	Cu	130131131130129	131130131129128	134132134135133	133134131131132	133132133133133	133133133133133
	Co	72727271 72	74737374 74	71707070 70	71707071 70	77777778 77	70707170 70
	Pb	55555555 54	53545653 54	53535253 53	52535253 53	53525253 53	—
	Ag	161162161160162	~~160~~ 162162162163	163164163164164	160159162162160	160160160160161	—
	Zn	.290	.280	.275	.292	.280	.294
	Mn	100101101100100	114113113113113	112111113111111	103104103104104	108107109108107	105107105106105
	Fe	82828282 82	79787978 77	—	—	—	79798079 80

NaOAc

	Cu	Co	Pb	Ag	Zn	Mn	Fe
012	.1081	.2906	.0735	.0166	.2461	.1147	.4199
014	.0763	.2520	.0341	.0459	.1195	.1095	.3995
018	.1133	.1983	.0836	.0136	.1412	.1111	.1409
020	.1404	.1994	.1167	.0429	.2104	.1318	.1870
021	.1085	.2000	.0814	.0282	.1325	.0922	.1146
025	.0922	.2939	.1012	.0389	.1431	.1210	.0659
026	.1145	.1715	.1186	0	.1071	.1000	.0203
033	.0814	.1853	.0520	.0546	.1072	.0650	.1528
034	.0776	.2053	.1134	.0327	.0914	.0655	.1506
036	.0734	.2402	.0354	.0267	.0951	.0633	.1436
045	.0806	.4149	.0426	0	.1245	.1088	.1081
046	.0821	.1377	.0555	0	.1128	.0575	.0537
047	.0748	.1557	.0632	.0734	.1011	.0637	.16
22	.0651	.1686	.0097	.0099	.1075	.2310	0
27	.1312	.1564	.0873	.0222	.0513	.1883	0
30	.1168	.1295	.0827	.0214	.0952	.1092	0
31	.0997	.3263	.0426	.0100	.0585	.1465	0
33	.0976	.1687	0	0	.1064	.0886	0

NaOA

		SAN94-039A	SAN94-010	SAN94-038	SAN94-049	SAN94-029	SAN94-031
A	Cu	3 3 3 3 3	3 3 3 3 3	2 3 3 2 3	4 5 4 5 5	3 2 4 4 3	5 5 5 5 5
	Co	8 2 8 2 8 2 8 2 8 2	7 7 7 7 7	14 14 14 14 14	24 24 24 24 24	15 15 15 15 15	19 19 18 18 18
	Pb	3 3 3 3 3	4 4 4 4 4	2 2 2 3 2	3 3 3 3 3	4 4 4 4 4	4 4 4 4 4
	Ag	1 1 1 0 0	2 2 2 2 2 ~~3 3 3 3 3~~	2 2 2 1 1	2 2 2 2 2	2 0 6 1 0	1 1 0 2 0
	ZN	26 26 26 26 26	36 35 35 36 35	39 39 37 39 38	52 53 53 53 52	23 23 22 23 23	27 28 28 28 27
	Fe	30 30 31 31 30	5 5 5 5 6	45 46 44 46 45	3 3 3 3 3	0 0 0 0 0	0 0 0 6 0
	MN	8 8 8 9 9	10 9 10 11 11	8 7 7 8 8	9 9 9 8 8	23 23 23 23 23	9 9 10 9 9
B	Cu	65 65 65 65 65	65 65 65 65 65	63 63 63 63 63	65 65 66 65 65	64 64 64 64 63	64 64 65 65 64
	Co	120 120 120 120 118	45 44 44 44 45	49 49 49 49 49	60 60 61 60 60	51 50 51 50 51	54 54 54 53 54
	Pb	25 26 26 26 26	27 28 27 26 27	26 26 26 25 26	25 25 27 26 25	27 28 26 27 28	27 27 27 27 27
	Ag	83 82 83 83 83	80 81 80 80 80	80 80 78 81 81	80 81 81 81 81	79 79 79 80 80	79 78 78 80 79
	ZN	161 159 156 157 159	164 161 165 162 163	168 168 168 168 167	178 177 177 178 179	153 153 153 153 152	157 155 155 154 154
	Fe	72 ~~70~~ 72 72 72	44 43 43 43 43	82 84 81 82 81	39 39 41 41 42	—	—
	MN	50 51 51 51 51	54 54 54 54 53	50 51 50 51 51	52 51 51 53 52	64 64 64 65 64	52 52 52 53 52
C	Cu	119 118 117 117 118	119 120 119 121 119	120 119 120 118 118	120 120 119 120 122	118 117 118 118 118	119 118 117 119 119
	Co	152 152 149 151 150	78 78 79 78 78	81 83 83 83 81	92 93 92 92 92	83 84 84 84 83	86 85 85 85 85
	Pb	44 46 44 45 45	48 49 49 49 48	46 47 46 47 47	48 48 49 47 48	48 48 49 48 49	48 48 49 47 47
	Ag	154 154 153 154 152	149 148 149 148 149	150 152 151 151 151	147 146 147 147 147	147 147 146 149 148	152 149 149 151 149
	ZN	278 276 276 279 277	291 292 292 290 292	287 285 286 288 290	307 308 308 305 304	275 271 271 271 271	280 279 280 283 279
	Fe	108 108 107 107 107	80 80 80 79 80	118 119 121 119 119	76 77 76 76 76	—	—
	MN	93 93 93 94 93	96 96 97 96 97	92 92 93 93 92	95 95 94 95 94	108 107 108 107 108	93 92 92 94 92

NaO

		SAN94-028	SAN94-008	SAN94-043	SAN94-037	SAN94-017	SAN94-016
A	Cu	6 6 6 6 6	4 5 5 5 4	7 7 7 7 6	6 6 5 5 5	4 4 4 4 4	3 3 3 2 3
	Co	1 2 1 2 1 2 1 2 1 2	7 8 7 7 8	9 9 9 9 9	2 3 2 3 2 3 2 3 2 3	8 8 8 8 8	2 6 2 6 2 6 2 6 2 6
	Pb	3 3 3 3 3	3 3 3 3 3	4 4 4 4 4	4 4 4 4 3	5 4 4 4 5	3 3 3 3 3
	Ag	2 1 1 1 0	1 1 1 1 1	1 0 0 1 1	0 1 0 0 0 0	1 1 1 1 1	1 1 1 2 1
	Zn	3 4 3 5 3 3 3 3 3 3	3 3 3 3 3 2 3 2 3 3	7 7 7 7 7	3 9 3 9 3 9 3 9 4 0	4 7 4 6 4 6 4 7 4 6	3 0 3 0 3 2 3 0 3 0
	Fe	~~0 0 0 0 0~~ 2 2 2 1 1	0 1 1 0 1 9 0 1	1 1 1 0 0	4 4 4 3 4	6 6 6 6 6	2 2 2 0 2 0 2 1 2 0
	Mn	8 8 7 9 8	1 0 1 0 9 1 0 1 0	1 5 1 4 1 5 1 5 1 5	7 7 6 7 6	6 6 6 6 7	9 9 9 8 9
B	Cu	6 5 6 5 6 6 6 6 6 6	6 4 6 4 6 4 6 4 6 4	6 4 6 5 6 5 6 5 6 5	6 3 6 3 6 4 6 3 6 3	6 2 6 2 6 2 6 1 6 2	6 0 6 0 6 0 6 0 6 0
	Co	4 7 4 8 4 8 4 7 4 7	4 3 4 3 4 4 4 3 4 3	4 3 4 3 4 2 4 2 4 2	5 8 5 8 5 8 5 8 5 8	4 3 4 3 4 3 4 3 4 3	6 0 6 0 6 0 5 9 6 0
	Pb	2 6 2 6 2 7 2 7 2 6	2 6 2 6 2 6 2 6 2 7	2 6 2 6 2 6 2 6 2 6	2 8 2 8 2 8 2 8 2 8	2 7 2 8 2 8 2 8 2 8	2 7 2 6 2 7 2 7 2 7
	Ag	7 9 8 1 7 9 8 2 8 1	8 3 8 3 8 3 8 1 8 1	7 9 8 0 8 0 8 0 8 1	7 8 7 8 7 7 7 7 7 8	7 9 7 8 8 1 8 1 7 7	7 6 7 6 7 6 7 6 7 6
	Zn	1 6 0 1 6 1 1 6 2 1 6 1 1 6 1	1 6 4 1 6 5 1 6 4 1 6 2 1 6 3	1 3 7 1 3 8 1 3 9 1 3 7 1 3 8	1 7 0 1 6 9 1 7 0 1 7 0 1 6 9	1 6 9 1 7 0 1 7 1 1 7 2 1 7 1	1 6 5 1 6 5 1 6 4 1 6 6 1 6 4
	Fe	3 6 3 7 3 6 3 6 3 7	3 7 3 7 3 7 3 8 3 7	3 6 3 6 3 5 3 5 3 6	4 2 4 3 4 3 4 2 4 3	4 3 4 5 4 4 4 5 4 5	5 5 5 7 5 8 5 6 5 8
	Mn	5 0 5 0 5 0 5 1 5 1	5 4 5 4 5 3 5 3 5 4	5 6 5 5 5 6 5 6 5 5	4 9 5 0 5 0 5 6 5 1	5 0 4 9 4 8 4 8 4 9	5 1 5 0 5 2 5 0 5 0
C	Cu	1 1 9 1 2 1 1 1 9 1 2 1 1 2 0	1 1 9 1 1 8 1 1 9 1 1 8 1 2 0	1 1 5 1 1 6 1 1 6 1 1 6 1 1 5	1 1 3 1 1 4 1 1 3 1 1 3 1 1 4	1 1 3 1 1 2 1 1 1 1 1 2 1 1 2	1 1 0 1 1 1 1 0 9 1 0 9 1 0 9
	Co	7 9 7 9 7 9 7 9 7 9	7 4 7 3 7 5 7 5 7 4	7 4 7 4 7 4 7 4 7 3	8 7 8 7 8 7 8 7 8 7	7 3 7 2 7 3 7 4 7 3	9 0 9 0 9 0 8 9 0
	Pb	4 8 4 8 4 8 4 9 4 9	4 8 4 8 4 8 4 8 4 8	4 9 4 9 4 9 4 9 5 0	4 9 4 9 5 0 4 9 5 1	4 8 4 8 4 6 4 7 4 8	4 7 4 8 4 8 4 8 4 8
	Ag	1 5 0 1 5 0 1 5 2 1 4 9 1 4 9	1 4 9 1 5 0 1 5 0 1 5 1 1 4 9	1 4 9 1 5 1 1 5 0 1 5 1 1 5 2	1 4 5 1 4 4 1 4 2 1 4 3 1 4 5	1 4 8 1 4 9 1 4 8 1 5 0 1 4 8	1 4 4 1 4 3 1 4 3 1 4 5 1 4 2
	Zn	2 7 9 2 7 9 2 8 8 2 8 2 8 6	2 8 4 2 8 6 2 8 1 2 8 3 2 8 3	2 5 6 2 5 6 2 5 9 2 5 6 2 5 7	2 8 9 2 8 6 2 8 5 2 8 8 2 8 9	2 9 4 2 9 6 2 9 3 2 9 5 2 9 3	2 8 1 2 8 0 2 8 0 2 7 8 2 8 0
	Fe	7 2 7 1 7 1 7 1 7 1	7 1 7 0 7 2 7 3 7 2	7 0 7 1 7 0 7 1 7 0	7 7 7 7 7 6 7 6 7 6	8 0 7 9 7 9 8 0 7 9	9 3 9 5 9 2 9 4 9 6
	Mn	9 7 9 7 9 7 9 7 9 7	9 4 9 5 9 5 9 5 9 5	9 8 9 6 9 8 9 7 9 6	9 3 9 3 9 0 9 1 9 1	9 3 9 3 9 3 9 3 9 3	9 2 9 4 9 2 9 1 9 2

NaOAc

		SAN94-032	SAN94-044	SAN94-051	SAN94-023	SAN94-024	SAN94-039B
A	Cu	2 3 3 2 2	5 5 5 5 5	1.137 1.139 1.137 1.137	4 4 4 4 4	7 7 7 7 7	~~3 3 3 3 3~~
	Co	9 9 9 9 9	7 7 7 7 7	7 5 7 6 7 6 7 5 1.137 7 6	10 10 10 10 10	10 10 10 10 10	9 0 7 0 7 0 6 9 9
	Pb	~~3 0 0 0 0~~ 3	~~0 0 0 0 0~~ 3 4 4 3 3	4 4 4 4 4	3 3 3 3 2	4 3 3 2 3	3 4 3 3 3
	Ag	2 2 1 0 1	1 1 2 2 2	3 3 2 2 2	0 0 0 0 0	0 1 1 1 0	0 0 1 1 1
	Zn	29 30 30 30 30	3 8 3 8 3 8 3 9 3 8	103 104 105 105 104	37 35 35 37 36	58 59 58 59 60	51 52 52 52 52
	Fe	7 7 7 7 7	0 0 0 0 0	121 121 119 121 120	2 2 1 2 1	0 0 0 0 0	36 36 35 35 35
	Mn	7 7 7 8 7	10 10 9 9 9	65 65 65 66 66	9 9 9 9 10	10 10 10 10 10	10 10 10 9
B	Cu	59 60 58 59 59	61 62 62 62 62		59 58 61 60 60	60 60 61 60 61	56 56 55 ~~54~~
	Co	43 44 44 44 44 45	43 43 42 43 43	109 108 108 108 108	44 43 44 44 44	44 44 44 44 44	102 102 102 102 102
	Pb	26 26 27 26 27 ~~9 10 9 9 9~~	28 28 27 28 27	27 27 26 27 28	26 27 27 27 27	27 26 26 26 27	27 28 28 27 27
	Ag	79 77 78 77 76	81 81 83 80 82	82 82 82 81 81	78 80 78 78 78	77 78 78 77 77	75 76 76 77 76
	Zn	169 170 169 167 168	~~164~~ 172 173 172 173 172	228 229 229 226 231	167 167 168 166 164	183 181 179 179 181	185 185 183 185 185
	Fe	43 44 43 44 44	— 0	155 158 158 160 159	41 41 40 40 41	—	71 70 70 70 71
	Mn	51 51 51 51 51	52 52 53 53 52	112 112 112 113 112	53 52 53 53 53	54 53 53 55 54	53 53 53 52 53
C	Cu	110 109 110 110 110	113 112 112 112 113		109 110 109 109 110	~~109~~ 108 108 107 108	104 104 105 104 104
	Co	76 76 76 76 76	74 74 73 75 74	138 138 139 138 138	75 74 75 75 74	76 76 75 75 75	132 132 132 132 132
	Pb	48 48 49 49 49 ~~47 47 47 47 47~~	49 50 50 49 49	50 49 48 49 49	48 49 49 49 49	48 48 49 48 49	49 49 51 50 50
	Ag	141 142 142 141 141	148 149 148 149 148	148 149 149 151 151	144 144 145 146 144	145 145 144 144 144	143 143 142 143 145
	Zn	288 291 289 290 289	296 296 293 292 292	348 350 349 348 348	287 287 287 288 286	302 304 301 304 304	301 303 298 301 299
	Fe	80 80 80 79 79	0	192 193 194 192 192	72 74 75 73 73	—	106 106 107 107 107
	Mn	92 93 93 93 93	94 95 96 95 95	153 152 153 153 152	94 93 95 93 93	96 95 96 96 96	98 99 97 98 98

NaOAc

	Cu	Zn	Mn	Fe
23	.1364	.0725	.2542	0
24	.1061	.0947	.2744	0
38	.1177	.1346	.1360	.0303
39	.0941	.1271	.1019	.1444
41	.1311	.1411	.0816	.0674
46	.1240	.1394	.0781	.1304
47	.0825	.1590	.0696	.1158
49	.1360	.1425	.0841	.1168
050	–	1.417	1.5693	.1351
044-1	.1211	.1822	.1121	.0382
044-2	.1106	.1845	.1106	.0485
017-1	.1240	.1586	.0871	.1608

NaOAc

		SAN-023	SAN-024	SAN-038	SAN-039	SAN-041
A	Cu	9 8 8 8 9	6 6 6 6 6	7 7 7 7 7	6 6 5 6 6	8 8 8 8 8
	Zn	17 17 17 ~~17~~ 17 17	24 24 24 23 24	34 35 33 35 33	34 34 32 34 33	35 36 36 35 35
	Mn	26 26 27 27 27	29 29 29 28 27	14 14 14 15 15	11 11 11 11 11	9 8 8 8 9
	Fe	0 0 0 0 0	0 0 0 0 0	1 1 1 1 1	7 7 7 7 6	3 3 3 3 3
B	Cu	.071	.070	.070	.067 .075	.069
	Zn	.157	.162	.167	.165	.168
	Mn	.0825	.0835	.068	.0625	.0625
	Fe	—	—	.052	.054	.051
C	Cu	.133	.1305	.131	.129	.130
	Zn	.283	.291	.297	.295	.294
	Mn	.134	.135	.121	.116	.115
	Fe	—	—	.100	.101	.098

NaOAc

		SAN-046	SAN-047	SAN049	SAN94-050
A	Cu	7 7 7 7 7	4 5 5 5 5	8 8 8 8 8	
	ZN	3 4 3 4 3 4 3 4 3 4	3 9 3 8 4 0 4 0 4 0	3 5 3 6 3 5 3 5 3 6	.357 .355 .358 .356 .357
	MN	8 8 7 9 8	7 7 7 8 7	9 8 8 8 9	.161 .160 .157 .158 .159
	Fe	6 6 6 6 6	6 5 6 6 7	6 6 6 5 6	6 6 8 8 6
B	Cu	.069	.066	.070	
	ZN	.167	.172	.168	.483
	MN	.061	.060	.062	.208
	Fe	.052	.052	.052	.054
C	Cu	.128	.126	.130	
	ZN	.290	.296	.293	.574 X
	MN	.113	.112	.113	.260
	Fe	.098	.101	.100	.103

NaOAc

		SAN94-044-1	SAN94-044-2	SAN94-017-1
A	Cu	7 7 7 7 8	6 7 6 6 6	7 7 7 7 7
	ZN	42 43 43 43 44	43 45 45 45 43	39 40 40 40 39
	MN	12 11 10 12 12	12 12 12 11 11	9 10 9 9 9
	Fe	~~0 0 0 1 0~~ 2 2 2 2 1	3 3 2 1 2	8 8 9 7 8
B	Cu	.069	.067	.069
	ZN	.199	.185	.170
	MN	.064	.064	.063
	Fe	.049	.050	.056
C	Cu	~~.130~~ .129	.128	.128
	ZN	.302	.303	.295
	MN	.116	.1165	.116
	Fe	.695	.697	.105

Santorini leachate analyses					
NH2OH					
Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Cu (ppm)
SAN94-008	9.56	1.03	0.0483	2	0.89659806
SAN94-010	9.86	1.034	0.0262	2	0.49967505
SAN94-012	9.78	1.032	0.0207	2	0.39233721
SAN94-014	9.7	1.033	0.0177	2	0.33241045
SAN94-016	9.63	1.027	0.0385	2	0.72201558
SAN94-017	9.66	1.031	0.0431	2	0.8076547
SAN94-018	9.88	1.03	0.0353	2	0.67721165
SAN94-020	9.55	1.03	0.0206	2	0.382
SAN94-021	9.7	1.033	0.0236	2	0.44321394
SAN94-023	9.32	1.032	0.0372	2	0.67190698
SAN94-024	9.31	1.032	0.0496	2	0.89491473
SAN94-025	9.66	1.025	0.0148	2	0.27896195
SAN94-026	9.76	1.026	0.0357	2	0.67920468
SAN94-028	9.79	1.031	0.0483	2	0.91727837
SAN94-029	9.73	1.033	0.1815	2	3.41915779
SAN94-031	9.93	1.03	0.0654	2	1.26101359
SAN94-032	9.34	1.031	0.047	2	0.85156159
SAN94-033	9.83	1.029	0.0296	2	0.56553547
SAN94-034	9.89	1.032	0.0342	2	0.6555
SAN94-036	9.77	1.021	0.0208	2	0.39807248
SAN94-037	9.27	1.033	0.0464	2	0.83277444
SAN94-038	9.85	1.029	0.0408	2	0.78110787
SAN94-039A	9.82	1.027	0	2	0
SAN94-039B	9.21	1.022	0	2	0
SAN94-043	9.79	1.032	0.288	2	5.46418605
SAN94-044	9.79	1.029	0.0449	2	0.8543654
SAN94-045	9.78	1.029	0.0326	2	0.61968513
SAN94-046	9.8	1.036	0.0268	2	0.50702703
SAN94-047	9.73	1.034	0.0298	2	0.56083946
SAN94-049	9.85	1.034	0.0953	2	1.81567698
SAN94-051	9.26	0.513	0.331	1000	5974.77583
SAN-022	9.63	1.032	0.1894	2	3.53473256
SAN-027	9.78	1.028	0.294	2	5.59400778
SAN-030	9.99	1.021	0.0478	2	0.93540059
SAN-031	9.93	1.03	0.1079	2	2.08047961
SAN-033	9.88	1.029	0.0563	2	1.08113508
SAN-023	9.92	1.024	0.3328	2	6.448
SAN-024	9.72	1.03	0.186	2	3.51052427
SAN-038	9.28	1.03	0.0284	2	0.51175146
SAN-039	9.84	1.029	0.0242	2	0.46283382
SAN-041	9.89	1.023	0.0432	2	0.83528446

SAN-046	9.42	1.016	0.0384	2	0.71206299
SAN-047	9.6	1.028	0.0286	2	0.53416342
SAN-049	9.91	1.021	0.05	2	0.97061704
SAN94-050	9.54	0.5075	2.0857	1000	39207.0502
SAN94-044-1	9.79	1.029	0.0452	2	0.86007386
SAN94-044-2	9.85	1.025	0.0402	2	0.77262439
SAN94-017-1	9.93	1.025	0.037	2	0.71689756
Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Co (ppm)
SAN94-008	9.56	1.03	0.0827	2	1.53516893
SAN94-010	9.86	1.034	0.0707	2	1.34835977
SAN94-012	9.78	1.032	0.0879	2	1.66601163
SAN94-014	9.7	1.033	0.1043	2	1.95878025
SAN94-016	9.63	1.027	0.3125	2	5.86051607
SAN94-017	9.66	1.031	0.0651	2	1.21991465
SAN94-018	9.88	1.03	0.0511	2	0.98032621
SAN94-020	9.55	1.03	0.0494	2	0.91605825
SAN94-021	9.7	1.033	0.0653	2	1.22635044
SAN94-023	9.32	1.032	0.1139	2	2.05726357
SAN94-024	9.31	1.032	0.2051	2	3.70054457
SAN94-025	9.66	1.025	0.075	2	1.41365854
SAN94-026	9.76	1.026	0.1005	2	1.91204678
SAN94-028	9.79	1.031	0.2506	2	4.75921242
SAN94-029	9.73	1.033	0.75	2	14.1287512
SAN94-031	9.93	1.03	0.2518	2	4.85509515
SAN94-032	9.34	1.031	0.094	2	1.70312318
SAN94-033	9.83	1.029	0.0531	2	1.01452478
SAN94-034	9.89	1.032	0.092	2	1.76333333
SAN94-036	9.77	1.021	0.0493	2	0.94350833
SAN94-037	9.27	1.033	0.32	2	5.74327202
SAN94-038	9.85	1.029	0.1675	2	3.20675413
SAN94-039A	9.82	1.027	0.333	2	6.36817916
SAN94-039B	9.21	1.022	0.2296	2	4.13819178
SAN94-043	9.79	1.032	0.5601	2	10.6267035
SAN94-044	9.79	1.029	0.0407	2	0.77444704
SAN94-045	9.78	1.029	0.1012	2	1.92368513
SAN94-046	9.8	1.036	0.0526	2	0.99513514
SAN94-047	9.73	1.034	0.055	2	1.03510638
SAN94-049	9.85	1.034	0.33	2	6.28723404
SAN94-051	9.26	0.513	1.1888	2	42.9173021
SAN-022	9.63	1.032	0.6107	2	11.3973663
SAN-027	9.78	1.028	0.3848	2	7.32168093
SAN-030	9.99	1.021	0.0561	2	1.0978237
SAN-031	9.93	1.03	0.3067	2	5.91365243
SAN-033	9.88	1.029	0.0976	2	1.87422352

Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Pb (ppm)
SAN94-008	9.56	1.03	0	2	0
SAN94-010	9.86	1.034	0	2	0
SAN94-012	9.78	1.032	0.0161	2	0.30515116
SAN94-014	9.7	1.033	0	2	0
SAN94-016	9.63	1.027	0	2	0
SAN94-017	9.66	1.031	0	2	0
SAN94-018	9.88	1.03	0	2	0
SAN94-020	9.55	1.03	0	2	0
SAN94-021	9.7	1.033	0.0097	2	0.18216844
SAN94-023	9.32	1.032	0	2	0
SAN94-024	9.31	1.032	0	2	0
SAN94-025	9.66	1.025	0.0943	2	1.77744
SAN94-026	9.76	1.026	0	2	0
SAN94-028	9.79	1.031	0	2	0
SAN94-029	9.73	1.033	0.0448	2	0.84395741
SAN94-031	9.93	1.03	0	2	0
SAN94-032	9.34	1.031	0	2	0
SAN94-033	9.83	1.029	0	2	0
SAN94-034	9.89	1.032	0.0203	2	0.38908333
SAN94-036	9.77	1.021	0	2	0
SAN94-037	9.27	1.033	0	2	0
SAN94-038	9.85	1.029	0	2	0
SAN94-039A	9.82	1.027	0	2	0
SAN94-039B	9.21	1.022	0	2	0
SAN94-043	9.79	1.032	0.0454	2	0.86136822
SAN94-044	9.79	1.029	0	2	0
SAN94-045	9.78	1.029	0	2	0
SAN94-046	9.8	1.036	0	2	0
SAN94-047	9.73	1.034	0	2	0
SAN94-049	9.85	1.034	0	2	0
SAN94-051	9.26	0.513	0	2	0
SAN-022	9.63	1.032	0.0236	2	0.44044186
SAN-027	9.78	1.028	0	2	0
SAN-030	9.99	1.021	0.1353	2	2.64769246
SAN-031	9.93	1.03	0	2	0
SAN-033	9.88	1.029	0.0164	2	0.314931

Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Ag (ppm)
SAN94-008	9.56	1.03	0	2	0
SAN94-010	9.86	1.034	0	2	0
SAN94-012	9.78	1.032	0	2	0
SAN94-014	9.7	1.033	0	2	0
SAN94-016	9.63	1.027	0	2	0
SAN94-017	9.66	1.031	0	2	0
SAN94-018	9.88	1.03	0	2	0
SAN94-020	9.55	1.03	0	2	0
SAN94-021	9.7	1.033	0	2	0
SAN94-023	9.32	1.032	0	2	0
SAN94-024	9.31	1.032	0	2	0
SAN94-025	9.66	1.025	0	2	0
SAN94-026	9.76	1.026	0	2	0
SAN94-028	9.79	1.031	0	2	0
SAN94-029	9.73	1.033	0	2	0
SAN94-031	9.93	1.03	0	2	0
SAN94-032	9.34	1.031	0	2	0
SAN94-033	9.83	1.029	0	2	0
SAN94-034	9.89	1.032	0	2	0
SAN94-036	9.77	1.021	0	2	0
SAN94-037	9.27	1.033	0	2	0
SAN94-038	9.85	1.029	0	2	0
SAN94-039A	9.82	1.027	0	2	0
SAN94-039B	9.21	1.022	0	2	0
SAN94-043	9.79	1.032	0	2	0
SAN94-044	9.79	1.029	0	2	0
SAN94-045	9.78	1.029	0	2	0
SAN94-046	9.8	1.036	0	2	0
SAN94-047	9.73	1.034	0	2	0
SAN94-049	9.85	1.034	0	2	0
SAN94-051	9.26	0.513	0	2	0
SAN-022	9.63	1.032	0	2	0
SAN-027	9.78	1.028	0	2	0
SAN-030	9.99	1.021	0	2	0
SAN-031	9.93	1.03	0	2	0
SAN-033	9.88	1.029	0	2	0

Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Zn (ppm)
SAN94-008	9.56	1.03	0.16	2	2.97009709
SAN94-010	9.86	1.034	0.1209	2	2.30575242
SAN94-012	9.78	1.032	0.2159	2	4.09205814
SAN94-014	9.7	1.033	0.1351	2	2.537212
SAN94-016	9.63	1.027	0.155	2	2.90681597
SAN94-017	9.66	1.031	0.1329	2	2.49042483
SAN94-018	9.88	1.03	0.1246	2	2.39038447
SAN94-020	9.55	1.03	0.1328	2	2.46260194
SAN94-021	9.7	1.033	0.1357	2	2.54848015
SAN94-023	9.32	1.032	0.1762	2	3.18252713
SAN94-024	9.31	1.032	0.1923	2	3.46959884
SAN94-025	9.66	1.025	0.1364	2	2.57097366
SAN94-026	9.76	1.026	0.1418	2	2.69779337
SAN94-028	9.79	1.031	0.1761	2	3.34436275
SAN94-029	9.73	1.033	0.5499	2	10.3592004
SAN94-031	9.93	1.03	0.2453	2	4.72976505
SAN94-032	9.34	1.031	0.1859	2	3.36819787
SAN94-033	9.83	1.029	0.1182	2	2.2583207
SAN94-034	9.89	1.032	0.122	2	2.33833333
SAN94-036	9.77	1.021	0.1008	2	1.92912047
SAN94-037	9.27	1.033	0.1442	2	2.58806196
SAN94-038	9.85	1.029	0.2413	2	4.61964043
SAN94-039A	9.82	1.027	0.1266	2	2.4210555
SAN94-039B	9.21	1.022	0.2474	2	4.45900978
SAN94-043	9.79	1.032	0.319	2	6.05234496
SAN94-044	9.79	1.029	0.1755	2	3.33944606
SAN94-045	9.78	1.029	0.1439	2	2.7353586
SAN94-046	9.8	1.036	0.1251	2	2.36675676
SAN94-047	9.73	1.034	0.1063	2	2.00057834
SAN94-049	9.85	1.034	0.2228	2	4.24483559
SAN94-051	9.26	0.513	0.3338	2	12.0506355
SAN-022	9.63	1.032	0.5134	2	9.58147674
SAN-027	9.78	1.028	0.4544	2	8.64597665
SAN-030	9.99	1.021	0.1494	2	2.92361606
SAN-031	9.93	1.03	0.2985	2	5.75554369
SAN-033	9.88	1.029	0.1808	2	3.47192225
SAN-023	9.92	1.024	0.576	2	11.16
SAN-024	9.72	1.03	0.4973	2	9.38593398
SAN-038	9.28	1.03	0.1577	2	2.84166214
SAN-039	9.84	1.029	0.1604	2	3.06770845
SAN-041	9.89	1.023	0.1493	2	2.88675855
SAN-046	9.42	1.016	0.149	2	2.76295276
SAN-047	9.6	1.028	0.151	2	2.82023346
SAN-049	9.91	1.021	0.1625	2	3.15450539

SAN94-050	9.54	0.5075	1.4097	2	52.9991645
SAN94-044-1	9.79	1.029	0.1738	2	3.30709815
SAN94-044-2	9.85	1.025	0.1897	2	3.64594146
SAN94-017-1	9.93	1.025	0.1763	2	3.41592
Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Fe (ppm)
SAN94-008	9.56	1.03	1.2469	25	289.329223
SAN94-010	9.86	1.034	2.0532	25	489.47176
SAN94-012	9.78	1.032	1.4065	25	333.226017
SAN94-014	9.7	1.033	2.1169	25	496.948935
SAN94-016	9.63	1.027	1.8823	25	441.249976
SAN94-017	9.66	1.031	1.5835	25	370.916828
SAN94-018	9.88	1.03	1.0341	25	247.983204
SAN94-020	9.55	1.03	1.1758	25	272.545874
SAN94-021	9.7	1.033	1.5222	25	357.341239
SAN94-023	9.32	1.032	1.7257	25	389.620252
SAN94-024	9.31	1.032	1.6875	25	380.586846
SAN94-025	9.66	1.025	1.9506	25	459.58039
SAN94-026	9.76	1.026	2.1587	25	513.375049
SAN94-028	9.79	1.031	1.6785	25	398.460597
SAN94-029	9.73	1.033	2.8109	25	661.908446
SAN94-031	9.93	1.03	1.6241	25	391.439636
SAN94-032	9.34	1.031	1.6997	25	384.946605
SAN94-033	9.83	1.029	1.2964	25	309.611565
SAN94-034	9.89	1.032	1.9146	25	458.70625
SAN94-036	9.77	1.021	1.0773	25	257.718438
SAN94-037	9.27	1.033	1.6658	25	373.716505
SAN94-038	9.85	1.029	3.748	25	896.933916
SAN94-039A	9.82	1.027	2.1358	25	510.553944
SAN94-039B	9.21	1.022	2.4323	25	547.981482
SAN94-043	9.79	1.032	0.8444	25	200.258624
SAN94-044	9.79	1.029	1.54	25	366.292517
SAN94-045	9.78	1.029	1.5844	25	376.468222
SAN94-046	9.8	1.036	1.3804	25	326.445946
SAN94-047	9.73	1.034	2.282	25	536.84381
SAN94-049	9.85	1.034	2.8904	25	688.356867
SAN94-051	9.26	0.513	13.333	25	6016.74366
SAN-022	9.63	1.032	2.806	25	654.597384
SAN-027	9.78	1.028	1.816	25	431.918288
SAN-030	9.99	1.021	1.5813	25	386.806734
SAN-031	9.93	1.03	0.969	25	233.547816
SAN-033	9.88	1.029	1.6993	25	407.898056
SAN-023	9.92	1.024	2.6529	25	642.499219
SAN-024	9.72	1.03	2.3779	25	560.999709
SAN-038	9.28	1.03	1.4965	25	337.075728

SAN-039	9.84	1.029	1.3461	25	321.808163
SAN-041	9.89	1.023	1.43	25	345.61828
SAN-046	9.42	1.016	1.331	25	308.514272
SAN-047	9.6	1.028	1.323	25	308.871595
SAN-049	9.91	1.021	1.2129	25	294.315353
SAN94-050	9.54	0.5075	4.2272	25	1986.57576
SAN94-044-1	9.79	1.029	1.3734	25	326.666327
SAN94-044-2	9.85	1.025	1.2469	25	299.560122
SAN94-017-1	9.93	1.025	1.6185	25	391.992805
Sample	Leachate vol	Mass powder	Linear fit	Dilution factor	Mn (ppm)
SAN94-008	9.56	1.03	0.0939	25	21.7884466
SAN94-010	9.86	1.034	0.0668	25	15.9247582
SAN94-012	9.78	1.032	0.063	25	14.9258721
SAN94-014	9.7	1.033	0.0757	25	17.7708132
SAN94-016	9.63	1.027	0.0594	25	13.9245862
SAN94-017	9.66	1.031	0.0636	25	14.8975752
SAN94-018	9.88	1.03	0.0906	25	21.7264078
SAN94-020	9.55	1.03	0.0704	25	16.3184466
SAN94-021	9.7	1.033	0.0882	25	20.7052275
SAN94-023	9.32	1.032	0.0854	25	19.2812016
SAN94-024	9.31	1.032	0.0818	25	18.448595
SAN94-025	9.66	1.025	0.0826	25	19.4613659
SAN94-026	9.76	1.026	0.1174	25	27.9196881
SAN94-028	9.79	1.031	0.0971	25	23.0506547
SAN94-029	9.73	1.033	0.6097	25	143.57166
SAN94-031	9.93	1.03	0.125	25	30.1274272
SAN94-032	9.34	1.031	0.0658	25	14.9023278
SAN94-033	9.83	1.029	0.0634	25	15.141448
SAN94-034	9.89	1.032	0.0926	25	22.1854167
SAN94-036	9.77	1.021	0.0714	25	17.0807542
SAN94-037	9.27	1.033	0.0812	25	18.2169409
SAN94-038	9.85	1.029	0.1335	25	31.9478863
SAN94-039A	9.82	1.027	0.056	25	13.3865628
SAN94-039B	9.21	1.022	0.0499	25	11.2421477
SAN94-043	9.79	1.032	0.6678	25	158.376017
SAN94-044	9.79	1.029	0.0751	25	17.8627065
SAN94-045	9.78	1.029	0.0686	25	16.3
SAN94-046	9.8	1.036	0.0581	25	13.7398649
SAN94-047	9.73	1.034	0.0667	25	15.6912718
SAN94-049	9.85	1.034	0.0907	25	21.6004594
SAN94-051	9.26	0.513	0.1648	25	74.3688109
SAN-022	9.63	1.032	0.6627	25	154.597892
SAN-027	9.78	1.028	0.5021	25	119.419698
SAN-030	9.99	1.021	0.1404	25	34.3436827

SAN-031	9.93	1.03	0.1891	25	45.5767718
SAN-033	9.88	1.029	0.1416	25	33.9895044
SAN-023	9.92	1.024	0.563	25	136.351563
SAN-024	9.72	1.03	0.4674	25	110.270097
SAN-038	9.28	1.03	0.1122	25	25.272233
SAN-039	9.84	1.029	0.0866	25	20.703207
SAN-041	9.89	1.023	0.0774	25	18.7068915
SAN-046	9.42	1.016	0.0922	25	21.3711614
SAN-047	9.6	1.028	0.0851	25	19.8677043
SAN-049	9.91	1.021	0.0874	25	21.2079824
SAN94-050	9.54	0.5075	0.1716	25	80.6435468
SAN94-044-1	9.79	1.029	0.0926	25	22.0251215
SAN94-044-2	9.85	1.025	0.1022	25	24.5529268
SAN94-017-1	9.93	1.025	0.0882	25	21.3616098

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Cu (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0.002	0.0006	0.001	0.001	0.0012	0.002	0.002	0.001	0.0016	0.001	0.002	0.001	0.002	0.002	0.01
2	1	0.067	0.0688	0.07	0.0692	0.0672	0.0668	0.071	0.07	0.0696	0.0668	0.0678	0.0686	0.0706	0.067	0.0754
3	2	0.1262	0.1302	0.1364	0.1364	0.126	0.1272	0.1378	0.1366	0.1374	0.1248	0.127	0.136	0.1366	0.1262	0.1334

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0.003	0.002	0.002	0.002	0.0012	0.002	0.0018	0	0	0.0178	0.0018	0.002	0.0016	0.0018	0.002	0
2	0.069	0.0664	0.0694	0.07	0.0692	0.0672	0.068	0	0	0.0796	0.067	0.07	0.0694	0.0694	0.0768	0
3	0.1284	0.1254	0.137	0.1364	0.136	0.127	0.1292	0	0	0.1414	0.1264	0.137	0.136	0.1358	0.1278	0

	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033	SAN-023	SAN-024	SAN-038	SAN-039	SAN-041	SAN-046	SAN-047	SAN-049	SAN94-050	SAN94-044-1	SAN94-044-2
1	0.012	0.019	0.003	0.007	0.004	0.0196	0.0112	0.0012	0.001	0.002	0.0016	0.001	0.0024	0	0.002	0.0018
2	0.0796	0.085	0.0706	0.0744	0.071	0.085	0.0755	0.0665	0.0645	0.0665	0.0665	0.0665	0.0665	0	0.0665	0.066
3	0.144	0.1496	0.137	0.1404	0.139	0.144	0.137	0.128	0.125	0.127	0.1265	0.127	0.1265	0	0.126	0.126

	49
	SAN94-017-1
1	0.0018
2	0.0655
3	0.126

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Zn (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0.0402	0.0312	0.0608	0.036	0.0402	0.0334	0.0328	0.036	0.0374	0.0486	0.055	0.0378	0.038	0.0392	0.1374
2	0.5	0.183	0.173	0.2068	0.1854	0.176	0.172	0.182	0.1798	0.1824	0.187	0.185	0.181	0.183	0.2	0.264
3	1	0.309	0.304	0.347	0.3202	0.306	0.299	0.316	0.3162	0.321	0.325	0.329	0.32	0.318	0.31	0.388

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0.0628	0.0464	0.0318	0.031	0.0252	0.0366	0.0636	0.03	0.0644	0.081	0.0454	0.039	0.033	0.0276	0.058	0.0852
2	0.1874	0.187	0.175	0.178	0.174	0.177	0.205	0.188	0.201	0.214	0.183	0.183	0.1782	0.1744	0.196	0.23
3	0.316	0.311	0.311	0.308	0.305	0.305	0.335	0.312	0.33	0.339	0.312	0.319	0.312	0.308	0.325	0.3518

	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033	SAN-023	SAN-024	SAN-038	SAN-039	SAN-041	SAN-046	SAN-047	SAN-049	SAN94-050	SAN94-044-1	SAN94-044-2
1	0.1252	0.122	0.0408	0.079	0.05	0.1458	0.127	0.0386	0.042	0.0378	0.037	0.0408	0.0412	0.33	0.0442	0.0466
2	0.298	0.259	0.185	0.223	0.194	0.286	0.26	0.18	0.171	0.174	0.177	0.174	0.18	0.456	0.183	0.184
3	0.394	0.392	0.322	0.352	0.332	0.405	0.385	0.303	0.302	0.301	0.302	0.309	0.307	0.566	0.31	0.306

	49
	SAN94-017-1
1	0.0458
2	0.171
3	0.301

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Mn (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0.008	0.006	0.0058	0.007	0.0054	0.006	0.0082	0.0074	0.0084	0.0072	0.007	0.008	0.0112	0.0078	0.0534
2	0.5	0.0514	0.051	0.054	0.056	0.0496	0.0478	0.056	0.053	0.056	0.052	0.0516	0.0556	0.059	0.0554	0.0992
3	1	0.0942	0.0958	0.101	0.1034	0.0946	0.0924	0.102	0.1026	0.1036	0.095	0.095	0.1036	0.1066	0.0974	0.1418
4																

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0.0108	0.0058	0.006	0.0086	0.0066	0.007	0.0118	0.0056	0.0056	0.0606	0.0068	0.0068	0.0056	0.007	0.008	0.0148
2	0.0546	0.051	0.0544	0.0568	0.0548	0.0492	0.056	0.0508	0.046	0.1026	0.0512	0.0544	0.0538	0.0532	0.0522	0.059
3	0.098	0.0954	0.1022	0.1036	0.1018	0.092	0.1002	0.0984	0.0938	0.15	0.096	0.103	0.102	0.103	0.0962	0.104
4																

	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033	SAN-023	SAN-024	SAN-038	SAN-039	SAN-041	SAN-046	SAN-047	SAN-049	SAN94-050	SAN94-044-1	SAN94-044-2
1	0.062	0.0466	0.013	0.0178	0.0134	0.0534	0.043	0.01	0.008	0.007	0.0086	0.008	0.0082	0.016	0.0082	0.009
2	0.11	0.093	0.0606	0.066	0.0606	0.098	0.089	0.059	0.055	0.054	0.056	0.055	0.055	0.061	0.055	0.0545
3	0.156	0.1394	0.107	0.113	0.108	0.147	0.135	0.1045	0.1015	0.1	0.103	0.102	0.102	0.1075	0.1	0.099
4																

	49
	SAN94-017-1
1	0.008
2	0.055
3	0.101
4	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Fe (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0.0498	0.082	0.061	0.0918	0.0696	0.0628	0.045	0.055	0.068	0.0586	0.0586	0.087	0.0948	0.065	0.102
2	1	0.0906	0.1188	0.104	0.137	0.1094	0.105	0.0904	0.096	0.1146	0.099	0.0962	0.131	0.14	0.1084	0.1402
3	2	0.13	0.161	0.1476	0.179	0.1444	0.143	0.133	0.146	0.158	0.1286	0.129	0.176	0.183	0.144	0.175

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0.064	0.0624	0.0576	0.085	0.0484	0.065	0.1418	0.088	0.084	0.0336	0.053	0.071	0.063	0.0956	0.105	0.3844
2	0.111	0.1026	0.101	0.13	0.095	0.107	0.183	0.124	0.114	0.076	0.0906	0.117	0.1106	0.14	0.143	0.412
3	0.1454	0.137	0.146	0.174	0.139	0.144	0.218	0.169	0.152	0.1146	0.123	0.161	0.155	0.18	0.178	0.442

	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033	SAN-023	SAN-024	SAN-038	SAN-039	SAN-041	SAN-046	SAN-047	SAN-049	SAN94-050	SAN94-044-1	SAN94-044-2
1	0.111	0.0754	0.0636	0.04	0.0692	0.1096	0.0998	0.0638	0.0548	0.06	0.0558	0.0544	0.0504	0.172	0.0542	0.05
2	0.152	0.1156	0.106	0.084	0.111	0.15	0.147	0.109	0.1	0.105	0.101	0.099	0.093	0.21	0.096	0.092
3	0.1904	0.158	0.1448	0.124	0.151	0.192	0.185	0.15	0.138	0.145	0.141	0.138	0.134	0.253	0.134	0.131

	49
	SAN94-017-1
1	0.0676
2	0.112
3	0.152

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Co (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0.003	0.002	0.004	0.0046	0.0116	0.002	0.002	0.002	0.003	0.004	0.004	0.003	0.004	0.009	0.0282
2	1	0.0422	0.044	0.0524	0.0512	0.0512	0.042	0.048	0.047	0.0472	0.045	0.055	0.0478	0.0478	0.0512	0.0696
3	2	0.0804	0.0812	0.0996	0.0966	0.0884	0.0788	0.092	0.091	0.0918	0.083	0.082	0.091	0.0896	0.088	0.1058

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0.01	0.003	0.002	0.0036	0.002	0.0116	0.006	0.014	0.0082	0.0202	0.001	0.004	0.002	0.002	0.013	0.046
2	0.0512	0.0432	0.0462	0.047	0.0448	0.0546	0.048	0.0548	0.0498	0.0578	0.042	0.0462	0.0444	0.0448	0.0542	0.087
3	0.091	0.0796	0.0886	0.0884	0.0872	0.091	0.086	0.0968	0.0866	0.0934	0.0796	0.087	0.0856	0.0856	0.0936	0.1244

	33	34	35	36	37
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033
1	0.0236	0.015	0.002	0.012	0.004
2	0.064	0.055	0.0438	0.053	0.045
3	0.1022	0.094	0.084	0.0922	0.086

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Ag (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	33	34	35	36	37
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033
1	0	0	0	0	0
2	0	0	0	0	0
3	0	0	0	0	0

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Pb (ppm)	SAN94-008	SAN94-010	SAN94-012	SAN94-014	SAN94-016	SAN94-017	SAN94-018	SAN94-020	SAN94-021	SAN94-023	SAN94-024	SAN94-025	SAN94-026	SAN94-028	SAN94-029
1	0	0	0	0.0008	0	0	0	0	0	0.0004	0	0	0.003	0	0	0.001
2	1	0	0	0.031	0	0	0	0	0	0.031	0	0	0.032	0	0	0.031
3	2	0	0	0.063	0	0	0	0	0	0.062	0	0	0.0624	0	0	0.059

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SAN94-031	SAN94-032	SAN94-033	SAN94-034	SAN94-036	SAN94-037	SAN94-038	SAN94-039A	SAN94-039B	SAN94-043	SAN94-044	SAN94-045	SAN94-046	SAN94-047	SAN94-049	SAN94-051
1	0	0	0	0.0002	0	0	0	0	0	0.001	0	0	0	0	0	0
2	0	0	0	0.031	0	0	0	0	0	0.028	0	0	0	0	0	0
3	0	0	0	0.0594	0	0	0	0	0	0.0538	0	0	0	0	0	0

	33	34	35	36	37
	SAN-022	SAN-027	SAN-030	SAN-031	SAN-033
1	0.0004	0	0.004	0	0.001
2	0.031	0	0.0346	0	0.03
3	0.0598	0	0.0646	0	0.0618

NH_2OH

		SAN94-012	SAN94-014	SAN94-018	SAN94-020	SAN94-021	SAN94-025
A	Cu	1 1 1 1 1	1 1 1 1 1	2 2 2 2 2	1 1 1 1 1	2 1 1 2 2	1 1 1 1 1
	Co	4 4 4 4 4	4 5 5 5 4	2 2 2 2 2	2 2 2 2 2	3 3 3 3 3	3 3 3 3 3
	Pb	~~1 1 1 1 0~~ ~~0 0 0 0 0~~	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 1 0 0 1	3 3 3 3 3
	Ag	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
	ZN	1 1 6 1 6 0 6 1 6 1	3 6 3 6 3 6 3 6 3 6	3 2 3 3 3 3 3 3 3 3 3	3 6 3 6 3 6 3 6 3 6	3 8 3 7 3 8 3 8 3 7	3 8 3 8 3 7 3 8 3 8
	MN	5 6 6 7 5	7 7 7 7 7	8 9 8 8 8	8 7 7 7 8	8 8 8 9 9	8 8 7 9 9
	Fe	6 0 6 0 6 2 6 2 6 0	9 2 9 2 9 2 9 1 9 2	4 4 4 5 4 6 4 5 4 4	5 5 5 5 5 5 5 5 5 5	6 7 6 8 6 8 6 9 6 7	8 6 8 8 8 7 8 7
B	Cu	7 0 7 0 7 0 7 0 7 0	6 9 6 9 7 0 6 9 6 9	7 1 7 1 7 1 7 1 7 1	7 0 7 0 7 0 7 0 7 0	7 0 7 0 6 9 7 0 6 9	6 9 6 9 6 8 6 8 6 9
	Co	5 2 5 3 5 2 5 3 5 2	5 1 5 2 5 1 5 1 5 1	4 8 4 8 4 8 4 8 4 8	4 7 4 7 4 7 4 7 4 7	4 7 4 8 4 7 4 7 4 7	4 8 4 8 4 8 4 8 4 7
	Pb	3 2 3 0 3 1 3 0 3 1	—	—	—	3 1 3 1 3 1 3 1 3 1	3 3 3 2 3 2 3 2 3 2
	Ag	—	—	—	—	—	—
	ZN	2 0 7 2 0 7 2 0 6 2 0 7 2 0 7	1 8 6 1 8 6 1 8 5 1 8 5 1 8 5	1 8 3 1 8 2 1 8 0 1 8 1 1 8 0	1 7 0 1 8 0 1 8 0 1 7 9 1 8 0	1 8 3 1 8 2 1 8 3 1 8 2 1 8 2	1 8 0 1 8 0 1 8 2 1 8 2 1 8 2
	MN	5 4 5 4 5 4 5 4 5 4	5 5 5 7 5 6 5 6 5 5	5 6 5 5 5 7 5 6 5 6	5 4 5 3 5 2 5 3 5 3	5 6 5 6 5 6 5 6 5 6	5 6 5 6 5 6 5 5 5 5
	Fe	1 0 5 1 0 5 1 0 4 1 0 4 1 0 3	1 3 6 1 3 9 1 3 8 1 3 5 1 3 7	9 0 9 1 9 1 9 0 9 0	9 5 9 7 9 6 9 6 9 6	1 1 3 1 1 4 1 1 5 1 1 5 1 1 5	1 3 1 1 3 2 1 3 0 1 3 0 1 3 1
C	Cu	1 3 7 1 3 7 1 3 6 1 3 6 1 3 6	1 3 6 1 3 6 1 3 6 1 3 7 1 3 7	1 3 8 1 3 8 1 3 8 1 3 8 1 3 7	1 3 7 1 3 7 1 3 6 1 3 7 1 3 6	1 3 7 1 3 7 1 3 8 1 3 8 1 3 7	1 3 6 1 3 6 1 3 6 1 3 6 1 3 6
	Co	1 0 0 1 0 0 9 9 9 9 1 0 0	9 6 9 7 9 7 9 7 9 6	9 2 9 2 9 2 9 2 9 2	9 1 9 1 9 1 9 1 9 1	9 1 9 2 9 2 9 2 9 2	9 1 9 1 9 1 9 1 9 1
	Pb	6 2 6 4 6 3 6 3 6 3	—	—	—	6 2 6 2 6 2 6 2 6 2	6 4 6 3 6 2 6 2 6 2
	Ag	—	—	—	—	—	—
	ZN	3 4 7 3 4 7 3 4 7 3 4 6 3 4 6	3 2 0 3 2 0 3 2 1 3 2 0 3 2 0	3 1 7 3 1 5 3 1 5 3 1 6 3 1 6	3 1 7 3 1 6 3 1 6 3 1 6 3 1 6	3 2 1 3 2 1 3 1 9 3 2 0 3 2 2	3 2 3 3 2 0 3 2 0 3 1 7 3 1 9
	MN	1 0 2 1 0 1 1 0 1 1 0 0 1 0 1	1 0 4 1 0 3 1 0 3 1 0 4 1 0 3	1 0 3 1 0 3 1 0 1 1 0 2 1 0 2	1 0 3 1 0 2 1 0 3 1 0 2 1 0 3	1 0 4 1 0 3 1 0 4 1 0 4 1 0 3	1 0 3 1 0 4 1 0 4 1 0 4 1 0 3
	Fe	1 4 7 1 4 8 1 4 8 1 4 7 1 4 8	1 8 0 1 7 9 1 7 9 1 7 9 1 7 8	1 3 3 1 3 3 1 3 2 1 3 4 1 3 4	1 4 5 1 4 5 1 4 7 1 4 6 1 4 5	1 5 9 1 5 8 1 5 7 1 5 6 1 5 9	1 7 5 1 7 7 1 7 6 1 7 7 1 7 7

NH_2OH

		SAN94-026	SAN94-033	SAN94-034	SAN94-036	SAN94-045	SAN94-046
A	Cu	22222	22222	22222	11121	22222	22211
	Co	44444	22222	34434	22222	44444	22222
	Pb	00000	00000	00010	00000	00000	00000
	Ag	00000	00000	00000	00001	00000	00000
	Zn	38 38 38 38 38	32 32 31 32 32	32 31 30 31 31	26 25 25 25 25	39 39 44 39 39 39	33 33 33 33 33
	Mn	11 12 11 11 11	6 6 6 6 6	9 9 9 8 8	6 7 7 6 7	7 7 7 6 7	6 6 5 5 6
	Fe	94 94 96 94 94	57 58 58 58 57	86 84 87 84 86	48 48 49 49 48	72 71 70 72 70	62 64 63 63 64
B	Cu	71 70 71 71 70	69 69 69 70 70	70 70 70 70 70	69 69 69 70 69	70 70 70 70 70	69 69 70 70 69
	Co	48 47 48 48 48	47 46 46 46 46	47 47 47 47 47	45 44 45 45 44	47 46 46 46 46	45 45 44 44 44
	Pb	—	—	31 31 31 31 31	—	—	—
	Ag	—	—	—	59 58 59 59 58	—	—
	Zn	183 184 183 182 182	176 174 176 177 175	179 179 178 176 176	173 173 175 173 174	184 184 182 183 182	178 178 178 178 179
	Mn	60 60 59 58 59	56 54 54 54 55	56 57 57 57 57	54 55 55 55 55	55 55 54 54 54	54 54 53 54 54
	Fe	141 139 139 141 140	101 100 99 102 102	132 131 130 130 129	95 96 94 95 96	117 117 116 118 117	110 111 111 111 110
C	Cu	137 136 137 136 137	136 138 138 138 136	136 136 137 137 136	137 137 136 135 135	137 137 137 138 135	136 136 136 137 135
	Co	90 90 90 89 89	89 88 88 89 89	89 88 88 89 88	87 87 87 87 88	87 87 87 87 87	86 85 85 85 86
	Pb	—	—	59 59 59 60 60	—	—	—
	Ag	—	—	—	93 93 94 93 93	—	—
	Zn	320 316 317 317 318	312 312 311 310 311	309 308 307 309 308	308 305 308 303 303	318 318 321 320 319	312 311 313 312 311
	Mn	106 107 107 106 107	103 102 102 102 102	104 104 103 104 103	102 102 101 102 102	103 102 104 104 103	102 102 102 102 102
	Fe	182 184 182 183 183	146 147 146 145 146	173 174 174 175 175	138 140 138 140 139	161 162 161 162 160	155 154 154 156 155

NA_2OH

		SAN94-047	SAN-022	SAN-027	SAN-030	SAN031	SAN033
A	Cu	1 2 2 2 2	12 12 12 12 12	19 19 19 19 19	3 3 3 3 3	7 7 7 7 7	4 4 4 4 4
	Co	2 2 2 2 2	24 24 24 23 23	16 16 15 15 15	2 2 2 2 2	12 12 12 12 12	4 4 4 4 4
	Pb	0 0 0 0 0	0 1 1 0 0	0 0 0 0 0	4 4 4 4 4	0 0 0 0 0	1 1 1 1 1
	Ag	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
	ZN	28 28 27 28 27	125 125 125 126 125	122 122 123 122 121	41 41 41 41 40	80 79 79 78 79	50 50 50 50 50
	Mn	7 7 7 7 7	61 63 ~~60~~ 63 62 62	46 47 47 47 46	13 13 13 13 13	18 17 18 18 18	14 13 12 14 13
	Fe	96 96 96 95 95	109 111 111 112 111	75 75 76 75 76	63 64 64 64 63	40 40 41 41 39	70 69 69 69 69
B	Cu	69 69 70 69 70	80 80 80 79 79	85 84 86 85 85	71 70 70 71 71	74 74 75 75 74	71 71 71 71 71
	Co	45 45 45 45 44	64 65 64 64 64	55 55 55 55 55	44 44 44 43 44	53 53 53 53 53	45 45 45 45 45
	Pb		31 31 31 31 31		34 35 35 35 34		30 30 30 30 30
	Ag						
	ZN	175 174 175 174 174	297 298 300 298 298	259 261 260 259 259	187 183 185 183 186	222 224 221 225 221	194 195 196 192 194
	Mn	54 53 53 55 53	110 110 110 110 110	94 93 93 92 92	61 60 61 61 60	66 66 66 66 66	60 61 60 61 61
	Fe	141 143 141 142 142	151 151 152 153 152	115 116 116 116 115	106 106 105 106 107	84 83 85 84 85	111 112 111 111 110
C	Cu	136 134 136 135 136	143 144 143 145 143	149 151 150 149 150	137 138 136 137 137	140 140 141 141 140	139 139 140 139 138
	Co	86 85 86 86 85	102 103 102 102 102	94 94 94 94 94	84 84 83 85 84	92 92 93 92 92	86 86 86 86 86
	Pb		59 60 60 60 60		65 64 64 65 65		62 62 61 62 62
	Ag						
	ZN	308 307 306 309 308	394 394 394 396 394	395 392 389 389 390	320 324 321 322 320	354 351 351 349 350	330 330 332 334 334
	Mn	104 103 103 102 104	155 157 158 156 155	140 139 140 139 140	107 107 108 106 107	113 114 112 112 113	109 107 109 107 108
	Fe	180 186 179 182 181	190 189 191 191 191	158 157 159 159 158	145 145 145 144 145	126 123 124 124 124	151 151 153 151 150

NH_2OH

	Cu	Co	Pb	Ag	Zn	Mn	Fe
012	.0207	.0879	.0161	0	.2159	.0630	1.4065
014	.0177	.1043	0	0	.1351	.0757	2.1169
018	.0353	.0511	0	0	.1246	.0906	1.0341
020	.0206	.0494	0	0	.1328	.0704	1.1758
021	.0236	.0653	.0097	0	.1357	.0882	1.5222
025	.0148	.075	.0943	0	.1364	.0826	1.9506
026	.0357	.1005	0	0	.1418	.1174	2.1587
033	.0296	.0531	0	0	.1182	.0634	1.2964
034	.0342	.0920	.0203	0	.1220	.0926	1.9146
036	.0208	.0493	0	0	.1008	.0714	1.0773
045	.0326	.1012	0	0	.1439	.0686	1.5844
046	.0268	.0526	0	0	.1251	.0581	1.3804
047	.0298	.0550	0	0	.1063	.0667	2.2820
22	.1894	.6107	.0236	0	.5134	~~.6678~~ .6627	2.8060
27	.2940	.3848	0	0	.4544	.5021	1.8160
30	.0478	.0561	.1353	0	.1494	.1404	1.5813
31	.1079	.3067	0	0	.2985	.1891	0.9690
33	.0563	.0976	.0164	0	.1808	.1416	1.6993

NH_2OH

		SAN94-039A	SAN94-010	SAN94-038	SAN94-049	SAN94-029	SAN94-031
A	Cu	0 0 0 0 0	0 0 1 1 1	2 2 2 1 2	2 2 2 2 2	10 10 10 10 10	3 3 3 3 3
	Co	14 14 14 14 14	2 2 2 2 2	6 6 6 6 6	13 13 13 13 13	28 28 29 28 28	10 10 10 10 10
	Pb	0 0 0 0 0	~~2 2 2 2 2~~ 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	1 1 1 1 1	0 0 0 0 0
	Ag	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
	Zn	29 30 30 31 31	31 31 32 31 31	64 64 63 64 63	59 57 58 58 57	137 138 138 137 137	63 63 62 63 63
	Fe	87 89 87 88 88	83 82 83 82 81	142 143 141 141 141	104 105 106 105 105	102 103 102 101 102	66 65 62 63 65
	Mn	5 5 6 6 6	6 6 6 6 6	11 12 12 12 12	8 8 8 8 8	53 53 53 54 54	11 11 11 11 10
B	Cu	69 68 68 68 69	68 68 68 67 68	68 68 68 68 68	68 68 67 68 68	76 75 75 75 76	69 69 69 69 69
	Co	55 55 55 45 55	44 44 43 45 44	48 48 48 48 48	55 54 54 54 54	69 69 70 70 70	51 51 51 52 51
	Pb		27 28 28 28 28			30 31 31 32 31	
	Ag	87 87 88 88 88	94 92 93 92 92	92 90 90 90 90			
	Zn	188 188 189 187 188	174 173 174 172 173	206 206 204 205 205	197 197 196 194 196	264 266 263 263 264	188 188 187 187 187
	Fe	126 124 123 125 126	119 118 119 119 119	181 183 180 182 184	145 142 143 142 141	140 146 140 140 141	112 111 110 111 110
	Mn	51 51 51 50 51	51 51 51 51 51	56 55 57 55 56	52 52 52 52 53	99 99 99 99 100	55 54 55 54 54
C	Cu	128 127 128 128 129	129 130 131 131 130	128 130 129 129 130	128 128 129 127 127	133 133 133 134 134	129 128 129 128 128
	Co	97 97 97 96 97	82 81 81 81 81	86 86 86 86 86	94 94 93 93 94	106 106 105 106 106	91 91 91 91 91
	Pb					59 59 59 59 59	
	Ag	178 177 176 175 175	175 175 177 174 175	179 177 177 178 176			
	Zn	312 312 311 310 312	307 305 304 302 303	337 334 335 333 336	325 329 325 328 322	388 387 388 389 388	316 315 317 314 316
	Fe	168 170 169 169 169	161 161 161 159 160	219 217 218 220 217	181 179 177 177 177	176 173 174 176 176	146 145 146 144 147
	Mn	98 98 99 99 98	96 95 96 96 96	100 100 101 100 100	96 96 96 96 97	142 142 142 140 140	99 98 97 98 98

NH_2OH

		SAN94-028	SAN94-008	SAN94-043	SAN94-037	SAN94017	SAN94-016
A	Cu	2 2 2 2 2	1 1 1 1 1	1 8 1 8 1 8 1 8 1 7	2 2 2 2 2	2 2 2 2 2	1 1 1 1 2
	Co	9 9 9 9 9	3 3 3 3 3	2 0 2 1 2 0 2 0 2 0	1 1 2 1 2 1 2 1 1	2 2 2 2 2	1 2 1 1 1 2 1 2 1 1
	Pb	0 0 0 0 0	0 0 0 0 0	1 1 1 1 1	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
	Ag	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
	ZN	4 0 4 0 4 0 3 9 4 0	4 1 4 0 3 9 4 1 4 0	8 0 8 2 8 2 8 0 8 0	3 7 3 5 3 7 3 7 3 6	3 4 3 4 3 3 3 4 3 3	4 0 4 0 4 0 4 0 4 1
	Fe	6 4 6 5 6 6 5 6 6	4 9 5 0 5 0 5 0 5 0	3 3 3 3 3 4 3 4 3 4	6 4 6 5 6 7 6 5 6 4	6 1 6 3 6 3 6 3 6 2	7 0 7 0 6 8 6 7 6 1 7 0 6 9
	MN	7 8 8 8 8	8 8 8 8 8	6 1 6 1 6 0 6 1 6 0	7 7 7 7 7	6 6 6 6 6	6 6 5 5 5
B	Cu	6 7 6 7 6 7 6 7 6 7	6 6 6 6 6 6 5 6 5	7 0 8 0 8 0 7 9 7 9	6 7 6 7 6 8 6 7 6 7	6 7 6 7 6 7 6 7 6 6	6 7 6 7 6 7 6 7 6 8
	Co	5 2 5 1 5 1 5 1 5 1	4 3 4 2 4 2 4 2 4 2	5 8 5 8 5 8 5 7 5 8	5 4 5 5 5 5 5 5 5 4	4 2 4 2 4 2 4 2 4 2	5 2 5 1 5 1 5 1 5 1
	Pb			2 8 2 8 2 8 2 8 2 8			
	Ag						
	ZN	2 0 0 1 9 9 1 9 9 2 0 1 1 9 9	1 8 4 1 8 4 1 8 3 1 8 1 1 8 3	2 1 5 2 1 5 2 1 5 2 1 3 2 1 2	1 7 7 1 7 9 1 7 8 1 7 7 1 7 5	1 7 4 1 7 1 1 7 1 1 7 1 1 7 1	1 7 6 1 7 4 1 7 6 1 7 6 1 7 6
	Fe	1 0 9 1 0 9 1 0 8 1 0 8 1 0 8	9 1 9 1 9 1 9 0 9 0	7 7 7 6 7 6 7 6 7 5	1 0 7 1 0 7 1 0 7 1 0 7 1 0 7	1 0 4 1 0 8 1 0 5 1 0 4 1 0 6	1 1 0 1 1 0 1 0 9 1 0 9 1 0 9
	MN	5 6 5 5 5 5 5 4 5 5	5 2 5 1 5 2 5 1 5 2	1 0 2 1 0 2 1 0 0 1 0 4 1 0 3	5 0 4 9 4 9 4 9 4 9	4 8 4 8 4 7 4 8 4 8	4 9 4 9 5 0 5 0 5 0
C	Cu	1 2 6 1 2 7 1 2 6 1 2 6 1 2 6	1 2 7 1 2 6 1 2 7 1 2 6 1 2 6	1 4 1 1 4 1 1 4 2 1 4 2 1 4 1	1 2 7 1 2 6 1 2 7 1 2 7 1 2 7	1 2 7 1 2 8 1 2 7 1 2 7 1 2 7	1 2 6 1 2 6 1 2 4 1 2 6
	Co	8 7 8 8 8 9 8 8 8 8	8 0 8 0 8 0 8 1 8 1	9 3 9 3 9 3 9 4 9 4	9 0 9 2 9 1 9 0 9 1	7 8 7 8 7 9 8 0 7 9	1 2 6 8 9 8 9 8 8 8 8 8 8
				5 4 5 4 5 4 5 3 5 4			
	Pb						
	Ag						
	ZN	3 1 1 3 1 1 3 1 1 3 1 0 3 0 8	3 1 1 3 0 8 3 1 1 3 1 0 3 0 9	3 4 0 3 4 0 3 3 8 3 3 8 3 4 0	3 0 5 3 0 8 3 0 4 3 0 5 3 0 2	3 0 0 3 0 1 2 9 9 2 9 8 2 9 8	3 0 6 3 0 6 3 0 6 3 0 7 3 0 4
	Fe	1 4 4 1 4 2 1 4 6 1 4 0 1 4 3	1 2 9 1 3 0 1 3 0 1 3 0 1 3 1	1 1 4 1 1 4 1 1 5 1 1 5 1 1 5	1 4 4 1 4 6 1 4 4 1 4 3 1 4 4	1 4 4 1 4 2 1 4 3 1 4 5 1 4 6	1 4 4 1 4 4 1 4 5 1 4 5 1 4 4
	MN	9 7 9 7 9 7 9 8 9 8	9 4 9 4 9 4 9 5 9 4	1 4 9 1 5 0 1 5 1 1 5 0 1 5 0	9 2 9 3 9 3 9 1 9 1	9 2 9 3 9 2 9 2 9 3	9 5 9 5 9 4 9 4 9 4

NH_2OH

		SAW94-032	SAW94-044	SAW94-051	SAW94-023	SAW94-024	SAW94-039B
A	Cu	2 2 2 2 2	2 2 2 1 2	1.158	1 1 1 1 1	3 2 2 2 2	0 0 0 0 0
	Co	3 3 3 3 3	~~0 0 0 0 0~~ 1 1 1 1 1	46 46 46 46 46	4 4 4 4 4	~~3~~ 4 4 4 4 4	8 8 9 8 8
	Pb	0 0 0 0 0	0 —	0 —	0 —	0 —	0 —
	Ag	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
	ZN	47 46 46 47 46	45 46 45 45 46	85 85 85 85 86	49 49 49 47 48	55 56 55 56 54	64 65 64 64 65
	Fe	63 63 62 62 62	53 53 54 52 53	.384 . 385 . 384 385 384	59 58 59 59 58	57 59 59 58 58	86 84 84 83 83
	MN	6 6 6 5 6	~~8 8~~ 7 7 7 6	15 15 15 15 14	7 7 7 8 7	7 7 7 7 7	6 6 6 5 5
B	Cu	66 67 66 66 67	67 67 67 67 67		67 66 67 67 67	67 69 68 67 68	63 63 63 63 63
	Co	43 43 43 44 43	42 42 42 42 42	87 87 87 87 87	45 45 45 45 45	44 44 44 44 44	50 50 49 50 50
	Pb						
	Ag						
	ZN	186 186 187 188 187	184 183 181 182 183	229 230 231 231 230	188 187 184 184 189	185 186 185 183 184	201 201 201 201 201
	Fe	102 102 103 103 103	91 91 91 90 90	414 413 414 411 410	99 98 99 100 99	97 96 96 96 96	115 114 113 114 115
	MN	51 51 51 51 51	51 52 51 51 51	59 58 59 60 59	52 53 53 52 51	52 53 51 51 51	~~45~~ 7 45 46 47 48
C	Cu	125 125 126 126 125	126 127 126 126 127	124 125 125 124 124	126 124 126 125 123	127 127 127 128 126	125 124 125 125 124
	Co	80 80 80 79 79	80 80 79 80 79		83 83 83 83 83	81 82 83 83 82	86 87 86 87 87
	Pb						
	Ag						
	ZN	314 312 311 311 308	312 314 311 312 312	351 352 352 352 352	327 325 327 323 324	329 331 326 329 325	331 330 329 328 329
	Fe	136 137 137 138 137	123 124 122 124 121	442 444 442 442 442	128 129 129 128 129	130 129 130 128 127	152 151 152 152 153
	MN	96 95 95 96 95	99 95 97 95 97	105 103 104 102 104	96 95 94 96 94	95 95 95 95 95	94 95 93 93 93

NH_2OH

	Cu	Zn	Mn	Fe
23	.3328	.5760	.5630	2.6529
24	.1860	.4973	.4674	2.3779
38	.0284	.1577	.1122	1.4965
39	.0242	.1604	.0866	1.3461
41	.0432	.1493	.0774	1.430
46	.0384	.1490	.0922	1.331
47	.0286	.1510	.0851	1.3230
49	.05	.1625	.0874	1.2129
050	0-	1.4097	.1716	4.2272
044-1	.0452	.1738	.0926	1.3734
044-2	.0402	.1897	.1022	1.2469
017-1	.0370	.1763	.0882	1.6185

Fe
NaOAc

NH_2OH

		SAN-023	SAN-024	SAN-038	SAN-039	SAN-041
A	Cu	20 19 20 21 19	11 12 11 11 11	1 1 2 1 1	1 1 0 1 2	2 2 2 2 2
	Zn	146 146 145 146 146	128 127 126 127 127	38 38 39 38 40	43 42 42 42 41	38 38 38 37 38
	Mn	54 54 53 53 53	43 43 43 43 43	10 10 10 10 10	8 8 8 8 8	7 7 7 7 7
	Fe	110 109 109 110 110	100 101 099 099 100	63 65 63 64 64	54 54 55 55 56	61 60 59 59 62
B	Cu	.085	.0755	.0665	.0645	.0665
	Zn	.286	.260	.180	~~.169~~ .171	.174
	Mn	.698	.689	.059	.055	.054
	Fe	.150	.147	.109	~~.099~~ .100	.105
C	Cu	.144	.137	.128	.125	.127
	Zn	.405	.385	.303	~~.290~~ .302	.301
	Mn	.147	.135	.1045	.1015	.100
	Fe	.192	.185	.150	.138	.145

NH_2OH

		SAN-046	SAN-047	SAN-049	SAN94-050
A	Cu	2 2 1 2 1	1 1 1 1 1	2 2 2 3 3	
	Zn	37 38 36 38 36	40 42 40 40 41	41 42 41 41 41	.331, .331, .329, .329, .327
	Mn	8 9 8 9 9	8 8 8 8 8	8 8 9 8 8	16 16 16 16 16
	Fe	57 55 55 56 55	54 54 55 54 55	50 50 50 51 51	173 171 172 172 173
B	Cu	.0665	.0665	.0665	
	Zn	.177	.174	.180	.456
	Mn	.056	.055	.055	.061
	Fe	.101	.099	.093	.210
C	Cu	.1265	.127	.1265	
	Zn	~~.301~~ .302	.309	.307	.564
	Mn	.103	.102	.102	.1075
	Fe	.141	.138	.134	.253

NH_2OH

		SAN94-044-1	SAN94-044-2	SAN94-017-1
A	Cu	2 1 2 3 2	2 2 1 2 2	2 2 2 2 1
	ZN	44 44 44 44 45	47 47 46 46 47	47 45 46 45 46
	MN	8 8 8 8 9	9 9 9 9 9	8 8 8 8 8
	Fe	55 54 54 54 54	50 50 50 49 51	69 67 68 67 66
B	Cu	.065	.066	.0655
	ZN	.183	.184	.171
	MN	.655	.0545	.055
	Fe	.096	.092	.112
C	Cu	.124	.126	.126
	ZN	.310	.306	.301
	MN	.100	.099	.101
	Fe	.134	.130	.152