

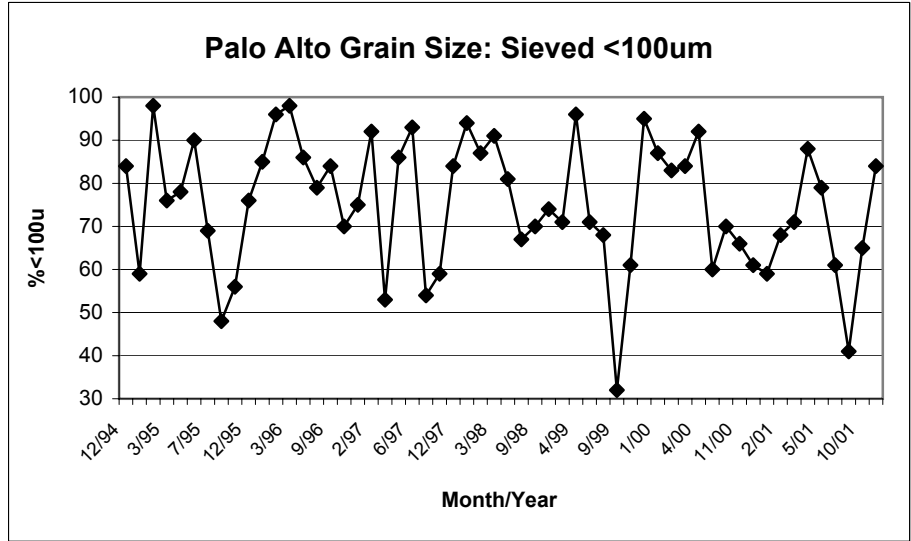
**APPENDIX 1.** Metal concentrations determined by ICP-OES in sediments collected at the Palo Alto mudflat. Each monthly collection is reported on a separate page. Concentrations observed in the reconstituted samples or extracts (in micrograms per milliliter or  $\mu\text{g}/\text{ml}$ ) are reported at the top of each page, along with the sediment weight and dilution factor. The latter are employed to determine concentrations in sediments (reported as microgram per gram dry sediment or  $\mu\text{g}/\text{g}$ ). Replicate subsamples were analyzed from each collection. Mean and standard deviation for the replicate samples are reported for the total and hydrochloric acid extracts. Samples that were below detection limit are denoted as “bd”.

Grain size data (p. 46) as well as TOC analyses (p. 47) and concentrations of Hg and Se in surface sediments (p. 63) are reported in separate summary tables.

**PALTO ALTO GRAIN SIZE DATA: <100um**

**MONTH/YEAR    %<100um**

MONTH/YEAR	%<100um
12/94	84
1/95	59
2/95	98
3/95	76
4/95	78
6/95	90
7/95	69
8/95	48
9/95	56
12/95	76
1/96	85
2/96	96
3/96	98
4/96	86
6/96	79
9/96	84
12/96	70
1/97	75
2/97	92
3/97	53
4/97	86
6/97	93
9/97	54
10/97	59
12/97	84
1/98	94
2/98	87
3/98	91
4/98	81
6/98	67
9/98	70
10/98	74
12/98	71
4/99	96
5/99	71
6/99	68
9/99	32
11/99	61
12/99	95
1/00	87
2/00	83
3/00	84
4/00	92
6/00	60
9/00	70
11/00	66
12/00	61
1/01	59
2/01	68
3/01	71
4/01	88
5/01	79
6/01	61
9/01	41
10/01	65
12/01	84



**Carbon and Nitrogen analyses for 2000-2001 Palo Alto surface sediments**

<b>2000 Palo Alto TOC Analysis</b>	<b>%C</b>	<b>%N</b>	<b>d13C</b>	<b>d15N</b>
1/00	1.4	0.2	-22.5	9.2
2/00	1.5	0.2	-23.0	8.7
3/00	1.4	0.2	-22.8	8.5
4/00	1.5	0.2	-22.9	8.8
6/00	1.1	0.1	-22.4	8.6
9/00	1.0	0.1	-22.5	8.4
11/00	0.9	0.1	-22.3	8.4
12/00	1.2	0.1	-22.5	8.2
<b>2001 Palo Alto TOC Analysis</b>	<b>%C</b>	<b>%N</b>	<b>d13C</b>	<b>d15N</b>
1/01	1.3	0.2	-22.5	8.5
2/01	1.2	0.1	-22.0	6.8
3/01				
4/01	1.4	0.2	-22.1	10.4
5/01				
6/01	1.1	0.1	-22.3	8.2
9/01	0.9	0.1	-22.5	8.7
10/01	1.0	0.1	-22.4	8.2
12/01	1.3	0.1	-22.7	8.8

## Palo Alto Total Digestion: 1999

### 1/15/1999: 89% 100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.7155	10	5	µg/ml	237.2403	1.65645	0.6966	921.75	14.02016	1.22625		1.1949	1.80633
Tot2	0.5161	10	5		524.1038	1.2452	0.5187	442.9487	10.79845	1.00131	0.50892	0.99049	1.42408
				µg/g	16578.64	115.7547	48.67925	64413	979.7456	85.69182		83.50105	126.2285
					50775.41	120.6355	50.25189	42913.07	1046.159	97.00736	49.3044	95.95912	137.9655
<b>Average</b>					<b>33677.03</b>	<b>118.1951</b>	<b>49.46557</b>	<b>53663.03</b>	<b>1012.952</b>	<b>91.34959</b>	<b>49.3044</b>	<b>89.73008</b>	<b>132.097</b>
<b>Std</b>					<b>17098.39</b>	<b>2.440409</b>	<b>0.786322</b>	<b>10749.96</b>	<b>33.20653</b>	<b>5.65777</b>		<b>6.229034</b>	<b>5.8685</b>

### 2/25/1999: 91% < 100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.6237	10	5	µg/ml	597.5073	1.39439	0.59967	922.7916	12.59855	1.14781	0.50885	0.96345	1.6858
Tot2	0.5882	10	5		595.8584	1.35625	0.57964	923.4702	11.58138	1.06316	0.46992	1.02277	1.55273
				µg/g	47900.22	111.7837	48.07359	73977.2	1009.985	92.01619	40.79285	77.23665	135.1451
					50651	115.2882	49.27236	78499.67	984.4764	90.37402	39.9456	86.94067	131.99
<b>Average</b>					<b>49275.61</b>	<b>113.5359</b>	<b>48.67297</b>	<b>76238.44</b>	<b>997.2306</b>	<b>91.19511</b>	<b>40.36922</b>	<b>82.08866</b>	<b>133.5675</b>
<b>Std</b>					<b>1375.392</b>	<b>1.752229</b>	<b>0.599382</b>	<b>2261.238</b>	<b>12.7542</b>	<b>0.821086</b>	<b>0.423626</b>	<b>4.852007</b>	<b>1.577566</b>

### 3/22/1999: 92% <100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.6853	10	5	µg/ml		1.49227	0.60421	922.4471	14.21782	1.11312		0.92273	1.70963
Tot2	0.6446	10	5		607.9751	1.46209	0.58456	922.8708	13.59202	1.16719	0.517	1.00597	1.64623
				µg/g		108.8771	44.08361	67302.43	1037.343	81.21407		67.32307	124.7359
					47159.1	113.4106	45.34285	71584.77	1054.299	90.53599	40.10239	78.03056	127.6939
<b>Average</b>					<b>47159.1</b>	<b>111.1439</b>	<b>44.71323</b>	<b>69443.6</b>	<b>1045.821</b>	<b>85.87503</b>	<b>40.10239</b>	<b>72.67682</b>	<b>126.2149</b>
<b>Std</b>						<b>2.266754</b>	<b>0.629618</b>	<b>2141.168</b>	<b>8.47801</b>	<b>4.660962</b>		<b>5.353746</b>	<b>1.479018</b>

### 4/18/1999: 96% <100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.533	10	5	µg/ml	539.6889	1.27091	0.51445	451.7833	13.13644	1.04105	0.51705	1.01614	1.47134
Tot2	0.5186	10	5		538.9407	1.26072	0.50688	604.8646	12.894	1.01698	0.49385	0.97641	1.4236
				µg/g	50627.48	119.2223	48.25985	42381.17	1232.311	97.65947	48.50375	95.3227	138.0244
					51961.11	121.5503	48.87003	58317.07	1243.155	98.05052	47.61377	94.13903	137.2541
<b>Average</b>					<b>51294.3</b>	<b>120.3863</b>	<b>48.56494</b>	<b>50349.12</b>	<b>1237.733</b>	<b>97.855</b>	<b>48.05876</b>	<b>94.73086</b>	<b>137.6393</b>
<b>Std</b>					<b>666.8185</b>	<b>1.164001</b>	<b>0.305092</b>	<b>7967.949</b>	<b>5.421601</b>	<b>0.195523</b>	<b>0.444992</b>	<b>0.591837</b>	<b>0.385122</b>

**5/19/1999: 71% < 100 µm**

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.5992	10	5	µg/ml	458.6	1.205	0.443	441.4	8.25	1.001	0.503	0.857	1.372
Tot2	0.5272	10	5		392.5	1.042	0.391	383.0	7.18	0.867	0.437	0.745	1.222
				µg/g	38267.15	100.5683	36.97096	36834.46	688.4705	83.48965	41.93174	71.52203	114.4785
					37227.42	98.842	37.09029	36326.91	681.3667	82.2629	41.41028	70.61646	115.8555
<b>Average</b>					<b>37747.28</b>	<b>99.70513</b>	<b>37.03062</b>	<b>36580.68</b>	<b>684.9186</b>	<b>82.87628</b>	<b>41.67101</b>	<b>71.06925</b>	<b>115.167</b>
<b>Std</b>					<b>519.8647</b>	<b>0.863131</b>	<b>0.059664</b>	<b>253.7733</b>	<b>3.551903</b>	<b>0.613377</b>	<b>0.260731</b>	<b>0.452783</b>	<b>0.688496</b>

**6/16/1999: 68% < 100 µm**

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.5391	10	5	µg/ml	415.6	1.099	0.432	402.2	7.78	0.926	0.488	0.746	1.283
Tot2	0.5802	10	5		465.2	1.206	0.467	434.6	8.39	0.997	0.522	0.854	1.384
				µg/g	38549.51	101.9301	40.08718	37304.62	721.3068	85.87553	45.22167	69.16249	118.9826
					40089.23	103.909	40.23957	37451.23	723.1394	85.93502	44.99311	73.59186	119.277
<b>Average</b>					<b>39319.37</b>	<b>102.9195</b>	<b>40.16338</b>	<b>37377.92</b>	<b>722.2231</b>	<b>85.90528</b>	<b>45.10739</b>	<b>71.37718</b>	<b>119.1298</b>
<b>Std</b>					<b>769.857</b>	<b>0.989464</b>	<b>0.076195</b>	<b>73.3051</b>	<b>0.916314</b>	<b>0.029745</b>	<b>0.11428</b>	<b>2.214686</b>	<b>0.147205</b>

**9/13/1999: 32% <100 µm**

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.546	10	5	µg/ml	386.3	1.057	0.369	367.7	9.97	0.843	0.459	0.709	1.167
Tot2	0.5664	10	5		380.8	1.048	0.380	374.9	10.25	0.870	0.465	0.719	1.192
				µg/g	35378.33	96.7674	33.81136	33675.58	912.9322	77.21245	42.00366	64.9185	106.8645
					33616.49	92.50353	33.53902	33097.22	905.2604	76.77701	41.07256	63.49223	105.2119
<b>Average</b>					<b>34497.41</b>	<b>94.63547</b>	<b>33.67519</b>	<b>33386.4</b>	<b>909.0963</b>	<b>76.99473</b>	<b>41.53811</b>	<b>64.20536</b>	<b>106.0382</b>
<b>Std</b>					<b>880.9234</b>	<b>2.131934</b>	<b>0.136168</b>	<b>289.1806</b>	<b>3.835909</b>	<b>0.217721</b>	<b>0.46555</b>	<b>0.713133</b>	<b>0.826302</b>

**11/22/1999: 61% <100 µm**

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.5634	10	5	µg/ml	525.4722	1.25831	0.47979	433.5162	14.72072	1.01346	0.51633	0.93314	1.38954
Tot2	0.539	10	5		476.9536	1.161	0.46203	415.1571	14.15298	0.99964	0.48691	0.859	1.35316
				µg/g	46634.03	111.6711	42.57987	38473.22	1306.418	89.94143	45.82268	82.81328	123.3174
					44244.3	107.6994	42.85993	38511.79	1312.892	92.73098	45.1679	79.6846	125.525
<b>Average</b>					<b>45439.16</b>	<b>109.6853</b>	<b>42.7199</b>	<b>38492.5</b>	<b>1309.655</b>	<b>91.33621</b>	<b>45.49529</b>	<b>81.24894</b>	<b>124.4212</b>
<b>Std</b>					<b>1194.862</b>	<b>1.98583</b>	<b>0.140027</b>	<b>19.28847</b>	<b>3.237109</b>	<b>1.394778</b>	<b>0.32739</b>	<b>1.564338</b>	<b>1.103844</b>

**12/20/1999: 95% <100 µm**

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.6115	10	5	µg/ml	663.9915	1.51753	0.61713	531.8403	19.41716	1.25639	0.62077	1.17173	1.7164
Tot2	0.5353	10	5		542.1273	1.29504	0.53026	464.6759	17.1843	1.13528	0.53297	0.95653	1.53921
				µg/g	54292.02	124.0826	50.46034	43486.53	1587.666	102.7302	50.75797	95.80785	140.3434
					50637.7	120.9639	49.52924	43403.32	1605.109	106.0415	49.78237	89.34523	143.7708
<b>Average</b>					<b>52464.86</b>	<b>122.5233</b>	<b>49.99479</b>	<b>43444.92</b>	<b>1596.388</b>	<b>104.3858</b>	<b>50.27017</b>	<b>92.57654</b>	<b>142.0571</b>
<b>Std</b>					<b>1827.16</b>	<b>1.559319</b>	<b>0.465554</b>	<b>41.60738</b>	<b>8.721445</b>	<b>1.65565</b>	<b>0.487804</b>	<b>3.231311</b>	<b>1.713682</b>

**Palo Alto HCl Extracts: 1999**

**1/15/1999**

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.6133	10	µg/ml	140.4072	0.28277	1.14212	276.1162	45.43812	0.4735	1.54778	0.66674	2.52816
HCl2	0.6722	10		142.2009	0.26628	1.21303	269.7581	49.14839	0.4601	1.65395	0.69259	2.58786
			µg/g	2289.373	4.610631	18.62253	4502.139	740.8792	7.720528	25.23692	10.87135	41.22224
				2115.455	3.961321	18.04567	4013.063	731.1572	6.844689	24.60503	10.30333	38.49836
<b>Average</b>				<b>2202.414</b>	<b>4.285976</b>	<b>18.3341</b>	<b>4257.601</b>	<b>736.0182</b>	<b>7.282609</b>	<b>24.92097</b>	<b>10.58734</b>	<b>39.8603</b>
<b>Std</b>				<b>86.9586</b>	<b>0.324655</b>	<b>0.288431</b>	<b>244.5381</b>	<b>4.860967</b>	<b>0.43792</b>	<b>0.315943</b>	<b>0.28401</b>	<b>1.361938</b>

**2/25/1999**

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.669	10		158.6489	0.31807	1.45478	371.6845	48.14431	0.57869	1.63809	0.81208	2.83392
HCl2	0.5957	10		126.7332	0.23726	1.26154	292.741	41.7374	0.46677	1.44207	0.68761	2.30847
				2371.434	4.75441	21.74559	5555.822	719.6459	8.650075	24.48565	12.13871	42.36054
				2127.467	3.982877	21.17744	4914.236	700.6446	7.835656	24.20799	11.54289	38.75222
<b>Average</b>				<b>2249.451</b>	<b>4.368643</b>	<b>21.46151</b>	<b>5235.029</b>	<b>710.1453</b>	<b>8.242865</b>	<b>24.34682</b>	<b>11.8408</b>	<b>40.55638</b>
<b>Std</b>				<b>121.9832</b>	<b>0.385766</b>	<b>0.284076</b>	<b>320.7932</b>	<b>9.500635</b>	<b>0.40721</b>	<b>0.13883</b>	<b>0.297912</b>	<b>1.804157</b>

**3/22/1999**

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.6507	10		132.281	0.26123	1.18889	284.6188	50.88224	0.48568	1.50877	0.64823	2.59923
HCl2	0.6382	10		127.5392	0.23974	1.19376	270.205	51.07645	0.45801	1.51987	0.64069	2.60482
				2032.903	4.0146	18.27094	4374.04	781.9616	7.463962	23.18688	9.962041	39.94514
				1998.421	3.756503	18.70511	4233.861	800.3204	7.17659	23.81495	10.03902	40.8151
<b>Average</b>				<b>2015.662</b>	<b>3.885551</b>	<b>18.48802</b>	<b>4303.95</b>	<b>791.141</b>	<b>7.320276</b>	<b>23.50091</b>	<b>10.00053</b>	<b>40.38012</b>
<b>Std</b>				<b>17.24115</b>	<b>0.129048</b>	<b>0.217085</b>	<b>70.08986</b>	<b>9.179426</b>	<b>0.143686</b>	<b>0.314036</b>	<b>0.038488</b>	<b>0.434984</b>

**4/18/1999**

Sample	Weight (g)	Recon. (ml)	AL	CR	CU	FE	MN	NI	PB	V	ZN
HCI1	0.5676	10	126.9514	0.24323	1.01707	236.3446	52.99787	0.39419	1.36187	0.63499	2.29036
HCL2	0.5089	10	107.9198	0.20219	0.88573	202.4619	46.52386	0.3357	1.24271	0.54744	1.95115
			2236.635	4.285236	17.91878	4163.928	933.7186	6.944856	23.99348	11.18728	40.35166
			2120.648	3.973079	17.40479	3978.422	914.2044	6.596581	24.41953	10.75732	38.34054
			<b>2178.641</b>	<b>4.129158</b>	<b>17.66179</b>	<b>4071.175</b>	<b>923.9615</b>	<b>6.770718</b>	<b>24.20651</b>	<b>10.9723</b>	<b>39.3461</b>
			<b>57.99355</b>	<b>0.156078</b>	<b>0.256993</b>	<b>92.75273</b>	<b>9.757139</b>	<b>0.174137</b>	<b>0.213025</b>	<b>0.21498</b>	<b>1.005559</b>

**Average  
Std**

**5/19/1999**

Sample	Weight (g)	Recon. (ml)	AL	CR	CU	FE	MN	NI	PB	V	ZN
HCI1	0.5419	10	86.34401	0.1599	0.82339	183.4173	20.7353	0.29659	1.03009	0.43401	1.72746
HCL2	0.5433	10	92.28839	0.17768	0.84818	198.2766	21.08624	0.31539	1.04918	0.44722	1.79737
			1593.357	2.950729	15.1945	3384.708	382.6407	5.47315	19.00886	8.009042	31.87784
			1698.664	3.270385	15.61163	3649.486	388.1141	5.80508	19.31125	8.231548	33.08246
			<b>1646.01</b>	<b>3.110557</b>	<b>15.40307</b>	<b>3517.097</b>	<b>385.3774</b>	<b>5.639115</b>	<b>19.16005</b>	<b>8.120295</b>	<b>32.48015</b>
			<b>52.65332</b>	<b>0.159828</b>	<b>0.208566</b>	<b>132.389</b>	<b>2.736704</b>	<b>0.165965</b>	<b>0.151194</b>	<b>0.111253</b>	<b>0.602311</b>

**Average  
Std**

**6/16/1999**

Sample	Weight (g)	Recon. (ml)	AL	CR	CU	FE	MN	NI	PB	V	ZN
HCI1	0.5262	10	81.02478	0.15993	0.90609	180.3717	19.97484	0.30673	1.00216	0.37188	1.63027
HCL2	0.5498	10	84.89815	0.16371	0.9274	188.375	21.16618	0.32743	1.06075	0.39036	1.72253
			1539.81	3.039339	17.2195	3427.817	379.6055	5.829152	19.04523	7.067275	30.98195
			1544.164	2.977628	16.86795	3426.246	384.9796	5.955438	19.29338	7.100036	31.33012
			<b>1541.987</b>	<b>3.008483</b>	<b>17.04373</b>	<b>3427.031</b>	<b>382.2926</b>	<b>5.892295</b>	<b>19.1693</b>	<b>7.083656</b>	<b>31.15603</b>
			<b>2.177332</b>	<b>0.030855</b>	<b>0.175773</b>	<b>0.785533</b>	<b>2.687078</b>	<b>0.063143</b>	<b>0.124075</b>	<b>0.016381</b>	<b>0.174087</b>

HCI1  
HCL2  
**Average  
Std**

**9/13/1999**

Sample	Weight (g)	Recon. (ml)	AL	CR	CU	FE	MN	NI	PB	V	ZN
HCI1	0.6131	10	101.8394	0.21767	0.86903	237.2365	40.69833	0.39355	1.22235	0.4234	2.15832
HCI2	0.629	10	100.9626	0.21207	0.86815	234.0393	41.35781	0.38367	1.23003	0.42204	2.1769
			1661.057	3.550318	14.17436	3869.459	663.8123	6.419018	19.9372	6.905888	35.20339
			1605.129	3.371542	13.80207	3720.816	657.5169	6.099682	19.55533	6.709698	34.6089
			<b>1633.093</b>	<b>3.46093</b>	<b>13.98821</b>	<b>3795.137</b>	<b>660.6646</b>	<b>6.25935</b>	<b>19.74627</b>	<b>6.807793</b>	<b>34.90615</b>
			<b>27.96424</b>	<b>0.089388</b>	<b>0.186147</b>	<b>74.3213</b>	<b>3.147707</b>	<b>0.159668</b>	<b>0.190939</b>	<b>0.098095</b>	<b>0.297245</b>

**Average  
Std**

**11/22/1999**

Sample	Weight (g)	Recon. (ml)	AL	CR	CU	FE	MN	NI	PB	V	ZN
HCI1	0.564	10	114.0606	0.25388	0.92812	249.2843	56.7033	0.43157	1.2571	0.51139	2.23696
HCI2	0.5356	10	109.83	0.24462	0.87918	240.7699	54.64427	0.40306	1.22447	0.48544	2.10099
			2022.351	4.501418	16.45603	4419.934	1005.378	7.65195	22.28901	9.067199	39.66241
			2050.597	4.567214	16.41486	4495.331	1020.244	7.525392	22.86165	9.06348	39.22685
		<b>Average</b>	<b>2036.474</b>	<b>4.534316</b>	<b>16.43545</b>	<b>4457.633</b>	<b>1012.811</b>	<b>7.588671</b>	<b>22.57533</b>	<b>9.065339</b>	<b>39.44463</b>
		<b>Std</b>	<b>14.1232</b>	<b>0.032898</b>	<b>0.020583</b>	<b>37.69822</b>	<b>7.433183</b>	<b>0.063279</b>	<b>0.286322</b>	<b>0.001859</b>	<b>0.217781</b>

**12/20/1999**

Sample	Weight (g)	Recon. (ml)	AL	CR	CU	FE	MN	NI	PB	V	ZN
HCI1	0.4923	10	120.8471	0.26426	0.94902	260.5416	65.91245	0.45402	1.24148	0.58085	2.3014
HCI2	0.523	10	122.7761	0.26957	0.97481	264.277	68.3443	0.44175	1.29133	0.58999	2.489
			2454.745	5.367865	19.27727	5292.334	1338.868	9.222425	25.21796	11.7987	46.74792
			2347.535	5.154302	18.63881	5053.097	1306.774	8.446463	24.69082	11.28088	47.59082
		<b>Average</b>	<b>2401.14</b>	<b>5.261084</b>	<b>18.95804</b>	<b>5172.715</b>	<b>1322.821</b>	<b>8.834444</b>	<b>24.95439</b>	<b>11.53979</b>	<b>47.16937</b>
		<b>Std</b>	<b>53.60504</b>	<b>0.106782</b>	<b>0.319228</b>	<b>119.6184</b>	<b>16.04659</b>	<b>0.387981</b>	<b>0.263567</b>	<b>0.25891</b>	<b>0.421452</b>



## Palo Alto Total Digestion: 2000

### 1/1/2000: 87% <100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.5358	10	10	µg/ml	286.2359	0.74203	0.24131	243.2992	8.78954	0.55272	0.17538	0.66459	0.73956
Tot2	0.5592	10	10		301.6856	0.7792	0.25126	252.0288	9.1486	0.57462	0.18545	0.68074	0.78396
				µg/g	53422.15	138.4901	45.03733	45408.59	1640.452	103.1579	32.73236	124.037	138.0291
					53949.49	139.3419	44.93205	45069.53	1636.016	102.7575	33.16345	121.7346	140.1931
<b>Average</b>					<b>53685.82</b>	<b>138.916</b>	<b>44.98469</b>	<b>45239.06</b>	<b>1638.234</b>	<b>102.9577</b>	<b>32.94791</b>	<b>122.8858</b>	<b>139.1111</b>
<b>Std</b>					<b>372.8833</b>	<b>0.60232</b>	<b>0.074445</b>	<b>239.7537</b>	<b>3.136672</b>	<b>0.283114</b>	<b>0.304823</b>	<b>1.627995</b>	<b>1.530192</b>

### 2/15/2000: 83% < 100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.5503	10	10	µg/ml	323.7401	0.78661	0.27654	257.6026	7.67749	0.58309	0.18809	0.72056	0.82281
Tot2	0.5322	10	10		313.7416	0.75519	0.26447	243.5284	7.26216	0.54822	0.177	0.69931	0.7776
				µg/g	58829.75	142.942	50.25259	46811.3	1395.146	105.9586	34.17954	130.9395	149.5203
					58951.82	141.8997	49.69372	45758.82	1364.555	103.0101	33.25817	131.3998	146.1105
<b>Average</b>					<b>58890.78</b>	<b>142.4208</b>	<b>49.97316</b>	<b>46285.06</b>	<b>1379.85</b>	<b>104.4844</b>	<b>33.71886</b>	<b>131.1697</b>	<b>147.8154</b>
<b>Std</b>					<b>86.31627</b>	<b>0.737067</b>	<b>0.395177</b>	<b>744.2178</b>	<b>21.63153</b>	<b>2.084849</b>	<b>0.651503</b>	<b>0.325525</b>	<b>2.411076</b>

### 3/22/2000: 84% <100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.5424	10	10	µg/ml	286.155	0.72496	0.24529	233.1639	5.35563	0.53332	0.17094	0.66544	0.74995
Tot2	0.5215	10	10		248.4681	0.65318	0.21967	220.1673	5.05992	0.50143	0.15831	0.58246	0.69485
				µg/g	52757.2	133.6578	45.22308	42987.44	987.3949	98.32596	31.51549	122.6844	138.2651
					47644.89	125.2502	42.12272	42218.09	970.2627	96.15149	30.35666	111.6894	133.2407
<b>Average</b>					<b>50201.04</b>	<b>129.454</b>	<b>43.6729</b>	<b>42602.76</b>	<b>978.8288</b>	<b>97.23872</b>	<b>30.93608</b>	<b>117.1869</b>	<b>135.7529</b>
<b>Std</b>					<b>3614.944</b>	<b>5.945055</b>	<b>2.192285</b>	<b>544.0107</b>	<b>12.1143</b>	<b>1.537584</b>	<b>0.819412</b>	<b>7.774645</b>	<b>3.552834</b>

### 4/10/2000: 92% <100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.5303	10	10	µg/ml	269.0626	0.68993	0.23432	231.438	6.77679	0.51834	0.16323	0.63307	0.72987
Tot2	0.5174	10	10		280.8794	0.70883	0.23851	229.045	6.67528	0.50983	0.16303	0.6697	0.72026
				µg/g	50737.81	130.1018	44.18631	43642.84	1277.916	97.74467	30.78069	119.3796	137.6334
					54286.7	136.9985	46.0978	44268.46	1290.158	98.53692	31.50947	129.4356	139.2076
<b>Average</b>					<b>52512.25</b>	<b>133.5501</b>	<b>45.14205</b>	<b>43955.65</b>	<b>1284.037</b>	<b>98.14079</b>	<b>31.14508</b>	<b>124.4076</b>	<b>138.4205</b>
<b>Std</b>					<b>2509.443</b>	<b>4.87665</b>	<b>1.351625</b>	<b>442.3813</b>	<b>8.65655</b>	<b>0.5602</b>	<b>0.515325</b>	<b>7.110696</b>	<b>1.1131</b>

**6/19/2000: 60% < 100 µm**

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.5992	10	10	µg/ml	230.8384	0.64393	0.20722	216.1977	3.84215	0.4837	0.14972	0.59026	0.66772
Tot2	0.5539	10	10		201.3344	0.56697	0.18633	197.7559	3.52078	0.44517	0.1381	0.5169	0.60172
				µg/g	38524.43	107.465	34.58278	36081.06	641.2133	80.7243	24.98665	98.50801	111.4352
					36348.51	102.3596	33.63965	35702.46	635.6346	80.3701	24.9323	93.32009	108.6333
<b>Average</b>					<b>37436.47</b>	<b>104.9123</b>	<b>34.11121</b>	<b>35891.76</b>	<b>638.4239</b>	<b>80.5472</b>	<b>24.95947</b>	<b>95.91405</b>	<b>110.0343</b>
<b>Std</b>					<b>1538.611</b>	<b>3.610008</b>	<b>0.666894</b>	<b>267.7063</b>	<b>3.944732</b>	<b>0.250455</b>	<b>0.038432</b>	<b>3.668411</b>	<b>1.981256</b>

**9/13/2000: 70% <100 µm**

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.5534	10	10	µg/ml	187.0921	0.53335	0.16841	187.8735	4.54704	0.42232	0.1338	0.48468	0.57112
Tot2	0.5506	10	10		196.4882	0.5515	0.17237	185.964	4.51871	0.41874	0.13863	0.51962	0.5642
				µg/g	33807.76	96.37694	30.43188	33948.96	821.6552	76.3137	24.17781	87.58222	103.202
					35686.19	100.1635	31.30585	33774.79	820.6883	76.05158	25.17799	94.37341	102.47
<b>Average</b>					<b>34746.97</b>	<b>98.2702</b>	<b>30.86886</b>	<b>33861.87</b>	<b>821.1718</b>	<b>76.18264</b>	<b>24.6779</b>	<b>90.97781</b>	<b>102.836</b>
<b>Std</b>					<b>1328.252</b>	<b>2.677471</b>	<b>0.617992</b>	<b>123.1567</b>	<b>0.683689</b>	<b>0.185345</b>	<b>0.707232</b>	<b>4.802098</b>	<b>0.517596</b>

**11/09/2000: 66% <100 µm**

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.7597	10	10	µg/ml	264.3157	0.66822	0.20461	246.9677	6.94064	0.54481	0.18974	0.55799	0.62334
Tot2	0.7672	10	10		266.2437	0.69049	0.20282	251.636	7.31769	0.56019	0.19498	0.56345	0.63296
				µg/g	34792.11	87.9584	26.933	32508.58	913.6027	71.71383	24.97565	73.44873	82.05081
					34703.3	90.0013	26.43639	32799.27	953.8178	73.01747	25.41449	73.44239	82.50261
<b>Average</b>					<b>34747.7</b>	<b>88.97985</b>	<b>26.6847</b>	<b>32653.93</b>	<b>933.7103</b>	<b>72.36565</b>	<b>25.19507</b>	<b>73.44556</b>	<b>82.27671</b>
<b>Std</b>					<b>62.80258</b>	<b>1.444548</b>	<b>0.351155</b>	<b>205.5482</b>	<b>28.43633</b>	<b>0.921807</b>	<b>0.310311</b>	<b>0.004484</b>	<b>0.319469</b>

**12/12/2000: 61% <100 µm**

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.5947	10	10	µg/ml	243.3941	0.60272	0.19055	230.3314	7.21784	0.50591	0.16968	0.49652	0.57588
Tot2	0.6107	10	10		270.7862	0.64922	0.20778	239.3676	7.43423	0.50911	0.17708	0.54023	0.59683
				µg/g	40927.2	101.3486	32.04137	38730.69	1213.694	85.06978	28.53203	83.49084	96.83538
					44340.3	106.3075	34.02325	39195.61	1217.329	83.36499	28.99623	88.46078	97.72884
<b>Average</b>					<b>42633.75</b>	<b>103.828</b>	<b>33.03231</b>	<b>38963.15</b>	<b>1215.512</b>	<b>84.21739</b>	<b>28.76413</b>	<b>85.97581</b>	<b>97.28211</b>
<b>Std</b>					<b>2413.422</b>	<b>3.506498</b>	<b>1.401405</b>	<b>328.7497</b>	<b>2.570329</b>	<b>1.20547</b>	<b>0.32824</b>	<b>3.514283</b>	<b>0.631769</b>

## Palo Alto HCl Extracts: 2000

1/18/2000

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.5763	12	µg/ml	111.6744	0.24729	0.96402	244.0981	55.35838	0.34219	0.9582	0.56244	1.97396
HCl2	0.5364	12		104.6224	0.22601	0.89319	230.8616	52.32227	0.32339	0.90217	0.53009	1.84072
			µg/g	2325.338	5.149193	20.0733	5082.73	1152.699	7.125247	19.95211	11.7114	41.10276
				2340.545	5.056152	19.98188	5164.689	1170.521	7.234676	20.18277	11.85884	41.17942
<b>Average</b>				<b>2332.941</b>	<b>5.102673</b>	<b>20.02759</b>	<b>5123.71</b>	<b>1161.61</b>	<b>7.179961</b>	<b>20.06744</b>	<b>11.78512</b>	<b>41.14109</b>
<b>Std</b>				<b>7.603561</b>	<b>0.046521</b>	<b>0.045708</b>	<b>40.9795</b>	<b>8.910681</b>	<b>0.054714</b>	<b>0.115333</b>	<b>0.073718</b>	<b>0.03833</b>

2/15/2000

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.5361	12	µg/ml	112.6398	0.23519	1.01791	251.1233	43.14474	0.38757	0.91315	0.58557	2.05558
HCl2	0.5458	12		114.456	0.23842	1.0388	253.4317	44.23473	0.39128	0.92978	0.59397	2.10043
			µg/g	2521.316	5.264466	22.78478	5621.115	965.7468	8.675322	20.43984	13.10733	46.01186
				2516.438	5.24192	22.83914	5571.968	972.5481	8.602712	20.44221	13.05907	46.18021
<b>Average</b>				<b>2518.877</b>	<b>5.253193</b>	<b>22.81196</b>	<b>5596.542</b>	<b>969.1475</b>	<b>8.639017</b>	<b>20.44103</b>	<b>13.0832</b>	<b>46.09604</b>
<b>Std</b>				<b>2.439066</b>	<b>0.011273</b>	<b>0.027178</b>	<b>24.57323</b>	<b>3.400637</b>	<b>0.036305</b>	<b>0.001185</b>	<b>0.024131</b>	<b>0.084175</b>

3/22/2000

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.5262	12	µg/ml	101.6391	0.21885	0.94634	225.1833	28.54431	0.363	0.86677	0.52215	1.97163
HCl2	0.5501	12		104.8146	0.21621	0.99073	229.2563	29.34093	0.37036	0.90018	0.53814	2.0086
			µg/g	2317.881	4.990878	21.5813	5135.309	650.9535	8.278221	19.7667	11.90764	44.96306
				2286.449	4.716452	21.612	5001.046	640.0494	8.079113	19.63672	11.7391	43.81603
<b>Average</b>				<b>2302.165</b>	<b>4.853665</b>	<b>21.59665</b>	<b>5068.178</b>	<b>645.5014</b>	<b>8.178667</b>	<b>19.70171</b>	<b>11.82337</b>	<b>44.38954</b>
<b>Std</b>				<b>15.71579</b>	<b>0.137213</b>	<b>0.015349</b>	<b>67.13144</b>	<b>5.452052</b>	<b>0.099554</b>	<b>0.064992</b>	<b>0.084269</b>	<b>0.573511</b>

4/10/2000

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.5177	12	µg/ml	97.35291	0.19207	0.83352	192.7745	38.70071	0.33028	0.81426	0.47607	1.77145
HCl2	0.5267	12		99.87035	0.20253	0.84261	199.5772	39.18439	0.33862	0.82351	0.48708	1.8125
			µg/g	2256.587	4.452076	19.32053	4468.406	897.0611	7.655708	18.8741	11.03504	41.06123
				2275.383	4.614316	19.19749	4547.042	892.7524	7.714904	18.76233	11.09732	41.29485
<b>Average</b>				<b>2265.985</b>	<b>4.533196</b>	<b>19.25901</b>	<b>4507.724</b>	<b>894.9067</b>	<b>7.685306</b>	<b>18.81821</b>	<b>11.06618</b>	<b>41.17804</b>
<b>Std</b>				<b>9.398139</b>	<b>0.08112</b>	<b>0.06152</b>	<b>39.31789</b>	<b>2.154348</b>	<b>0.029598</b>	<b>0.055883</b>	<b>0.031142</b>	<b>0.116811</b>

**6/19/2000**

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.5546	12	µg/ml	80.24803	0.15255	0.7077	187.2361	16.74408	0.28482	0.73477	0.37164	1.66283
HCl2	0.5594	12		81.31013	0.15669	0.70419	190.1018	16.68748	0.2863	0.73597	0.37593	1.65785
			µg/g	1736.344	3.300757	15.31266	4051.269	362.2953	6.162712	15.89838	8.041255	35.97901
				1744.229	3.361244	15.10597	4077.98	357.9724	6.14158	15.7877	8.064283	35.56346
<b>Average</b>				<b>1740.286</b>	<b>3.331001</b>	<b>15.20931</b>	<b>4064.624</b>	<b>360.1338</b>	<b>6.152146</b>	<b>15.84304</b>	<b>8.052769</b>	<b>35.77124</b>
<b>Std</b>				<b>3.942393</b>	<b>0.030243</b>	<b>0.103344</b>	<b>13.35577</b>	<b>2.161438</b>	<b>0.010566</b>	<b>0.055338</b>	<b>0.011514</b>	<b>0.207776</b>

**9/13/2000**

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.5417	12	µg/ml	75.04475	0.14715	0.68596	180.9306	25.45315	0.26352	0.75516	0.35932	1.50666
HCl2	0.5519	12		76.30331	0.15288	0.70098	186.6002	26.41503	0.26847	0.76885	0.36841	1.55795
			µg/g	1662.428	3.259738	15.19572	4008.061	563.8505	5.837622	16.72867	7.95983	33.37626
				1659.068	3.32408	15.24146	4057.262	574.3438	5.837362	16.71716	8.010364	33.87461
<b>Average</b>				<b>1660.748</b>	<b>3.291909</b>	<b>15.21859</b>	<b>4032.661</b>	<b>569.0972</b>	<b>5.837492</b>	<b>16.72291</b>	<b>7.985097</b>	<b>33.62544</b>
<b>Std</b>				<b>1.679689</b>	<b>0.032171</b>	<b>0.02287</b>	<b>24.60009</b>	<b>5.24668</b>	<b>0.00013</b>	<b>0.005755</b>	<b>0.025267</b>	<b>0.249178</b>

**11/9/2000**

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.571	12	µg/ml	70.06039	0.14026	0.64668	174.4087	31.0086	0.264	0.82471	0.33473	1.30816
HCl2	0.532	12		66.72739	0.12734	0.60738	163.7541	28.73255	0.24441	0.76857	0.31325	1.25898
			µg/g	1472.372	2.947671	13.59047	3665.331	651.6694	5.548161	17.33191	7.034606	27.49198
				1505.129	2.872331	13.7003	3693.701	648.1026	5.513008	17.33617	7.065789	28.39805
<b>Average</b>				<b>1488.751</b>	<b>2.910001</b>	<b>13.64539</b>	<b>3679.516</b>	<b>649.886</b>	<b>5.530584</b>	<b>17.33404</b>	<b>7.050198</b>	<b>27.94501</b>
<b>Std</b>				<b>16.37831</b>	<b>0.03767</b>	<b>0.054914</b>	<b>14.18456</b>	<b>1.78336</b>	<b>0.017577</b>	<b>0.002128</b>	<b>0.015592</b>	<b>0.453033</b>

**12/12/2000**

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.503	12	µg/ml	76.54453	0.15702	0.70694	177.6214	34.89665	0.26196	0.79609	0.36825	1.26202
HCl2	0.5676	12		91.14401	0.1844	0.81181	195.909	38.73235	0.29898	0.91096	0.41034	1.55135
			µg/g	1826.112	3.746004	16.86537	4237.487	832.5245	6.249543	18.99221	8.785288	30.10783
				1926.935	3.89852	17.163	4141.839	818.8658	6.32093	19.2592	8.675264	32.7981
<b>Average</b>				<b>1876.523</b>	<b>3.822262</b>	<b>17.01418</b>	<b>4189.663</b>	<b>825.6951</b>	<b>6.285236</b>	<b>19.1257</b>	<b>8.730276</b>	<b>31.45297</b>
<b>Std</b>				<b>50.41131</b>	<b>0.076258</b>	<b>0.148817</b>	<b>47.82439</b>	<b>6.829351</b>	<b>0.035694</b>	<b>0.133495</b>	<b>0.055012</b>	<b>1.345132</b>

## Palo Alto Total Digestion: 2001

### 1/09/2001: 59% <100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.5666	10	10	µg/ml	267.292	0.65249	0.21547	231.9289	7.70147	0.52638	0.17603	0.55286	0.5828
Tot2	0.509	10	10		261.4027	0.62412	0.19641	215.3479	6.93082	0.48333	0.16782	0.5481	0.53432
				µg/g	47174.72	115.1588	38.02859	40933.44	1359.243	92.90152	31.06777	97.57501	102.8592
					51356.13	122.6169	38.58743	42308.03	1361.654	94.95678	32.97053	107.6817	104.9745
<b>Average</b>					<b>49265.43</b>	<b>118.8879</b>	<b>38.30801</b>	<b>41620.73</b>	<b>1360.449</b>	<b>93.92915</b>	<b>32.01915</b>	<b>102.6284</b>	<b>103.9168</b>
<b>Std</b>					<b>2956.701</b>	<b>5.27364</b>	<b>0.395156</b>	<b>971.9829</b>	<b>1.705097</b>	<b>1.453288</b>	<b>1.345453</b>	<b>7.14653</b>	<b>1.495743</b>

### 2/05/2001: 68% < 100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.5334	10	10	µg/ml	276.9366	0.62088	0.2097	227.088	3.93085	0.51702	0.17186	0.54488	0.53026
Tot2	0.5185	10	10		261.277	0.59508	0.20107	218.0739	3.77477	0.50467	0.16342	0.52192	0.50811
				µg/g	51919.12	116.4004	39.31384	42573.67	736.9423	96.92913	32.21972	102.1522	99.41132
					50390.93	114.7695	38.77917	42058.61	728.0174	97.33269	31.51784	100.6596	97.99614
<b>Average</b>					<b>51155.03</b>	<b>115.585</b>	<b>39.0465</b>	<b>42316.14</b>	<b>732.4798</b>	<b>97.13091</b>	<b>31.86878</b>	<b>101.4059</b>	<b>98.70373</b>
<b>Std</b>					<b>1080.596</b>	<b>1.153236</b>	<b>0.378065</b>	<b>364.2087</b>	<b>6.310857</b>	<b>0.285358</b>	<b>0.496306</b>	<b>1.055453</b>	<b>1.000684</b>

### 3/05/2001: 71% <100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.5246	10	10	µg/ml	291.1412	0.65003	0.21602	229.2297	6.79326	0.50622	0.17867	0.56603	0.59849
Tot2	0.4864	10	10		250.1538	0.57306	0.18735	214.0077	6.35139	0.46141	0.16141	0.48841	0.54194
				µg/g	55497.74	123.9096	41.17804	43696.09	1294.941	96.49638	34.05833	107.8974	114.085
					51429.65	117.8166	38.51768	43998.29	1305.796	94.86225	33.18462	100.4132	111.4186
<b>Average</b>					<b>53463.7</b>	<b>120.8631</b>	<b>39.84786</b>	<b>43847.19</b>	<b>1300.368</b>	<b>95.67932</b>	<b>33.62148</b>	<b>104.1553</b>	<b>112.7518</b>
<b>Std</b>					<b>2876.577</b>	<b>4.308425</b>	<b>1.881158</b>	<b>213.6898</b>	<b>7.675456</b>	<b>1.155501</b>	<b>0.617805</b>	<b>5.292132</b>	<b>1.885452</b>

### 4/10/2001: 88% <100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.5599	10	10	µg/ml	316.3985	0.69831	0.22093	241.4515	8.87424	0.51917	0.18105	0.62946	0.60912
Tot2	0.5247	10	10		287.3702	0.63441	0.19867	225.7878	8.32721	0.48984	0.16755	0.56371	0.56039
				µg/g	56509.83	124.7205	39.45883	43124.04	1584.969	92.72549	32.33613	112.4236	108.7909
					54768.48	120.9091	37.86354	43031.79	1587.042	93.3562	31.93253	107.4347	106.802
<b>Average</b>					<b>55639.16</b>	<b>122.8148</b>	<b>38.66119</b>	<b>43077.91</b>	<b>1586.005</b>	<b>93.04085</b>	<b>32.13433</b>	<b>109.9292</b>	<b>107.7964</b>
<b>Std</b>					<b>1231.316</b>	<b>2.695063</b>	<b>1.128041</b>	<b>65.23485</b>	<b>1.466097</b>	<b>0.445984</b>	<b>0.285387</b>	<b>3.527701</b>	<b>1.406346</b>

**5/08/2001: 79% < 100 µm**

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.5329	10	10	µg/ml	322.0836	0.69309	0.21668	234.6715	5.03765	0.49992	0.17542	0.6409	0.59759
Tot2	0.5378	10	10		326.5021	0.71229	0.22254	236.4204	5.06734	0.50126	0.17733	0.65664	0.60225
				µg/g	60439.79	130.06	40.66054	44036.69	945.3275	93.81122	32.918	120.2665	112.1392
					60710.69	132.4451	41.3797	43960.65	942.235	93.20565	32.97322	122.0974	111.984
<b>Average</b>					<b>60575.24</b>	<b>131.2526</b>	<b>41.02012</b>	<b>43998.67</b>	<b>943.7812</b>	<b>93.50844</b>	<b>32.94561</b>	<b>121.182</b>	<b>112.0616</b>
<b>Std</b>					<b>191.5566</b>	<b>1.686519</b>	<b>0.508522</b>	<b>53.7743</b>	<b>2.186673</b>	<b>0.428202</b>	<b>0.039052</b>	<b>1.29469</b>	<b>0.109764</b>

**6/12/2001: 61% <100 µm**

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.7297	10	10	µg/ml	209.9173	0.65194	0.20486	237.6867	5.56351	0.55032	0.17233	0.50323	0.77727
Tot2	0.7244	10	10		210.7038	0.64905	0.20646	240.0153	5.59143	0.5496	0.17406	0.51436	0.78108
				µg/g	28767.62	89.34357	28.07455	32573.2	762.438	75.41729	23.61655	68.96396	106.5191
					29086.66	89.59829	28.50083	33132.98	771.8705	75.86969	24.02816	71.00497	107.8244
<b>Average</b>					<b>28927.14</b>	<b>89.47093</b>	<b>28.28769</b>	<b>32853.09</b>	<b>767.1543</b>	<b>75.64349</b>	<b>23.82236</b>	<b>69.98446</b>	<b>107.1718</b>
<b>Std</b>					<b>225.5932</b>	<b>0.180116</b>	<b>0.301423</b>	<b>395.8207</b>	<b>6.669803</b>	<b>0.319888</b>	<b>0.29105</b>	<b>1.443213</b>	<b>0.922979</b>

**9/18/2001: 41% <100 µm**

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.3263	10	10	µg/ml	88.38353	0.25486	0.08322	110.7142	3.19383	0.24883	0.08096	0.24001	0.31042
Tot2	0.3125	10	10		80.45123	0.23352	0.0795	103.3866	3.03997	0.2364	0.07576	0.21916	0.2937
				µg/g	27086.59	78.10604	25.50414	33930.19	978.8017	76.25804	24.81152	73.55501	95.13331
					25744.39	74.7264	25.44	33083.71	972.7904	75.648	24.2432	70.1312	93.984
<b>Average</b>					<b>26415.49</b>	<b>76.41622</b>	<b>25.47207</b>	<b>33506.95</b>	<b>975.7961</b>	<b>75.95302</b>	<b>24.52736</b>	<b>71.84311</b>	<b>94.55866</b>
<b>Std</b>					<b>949.0733</b>	<b>2.389765</b>	<b>0.045352</b>	<b>598.5482</b>	<b>4.250642</b>	<b>0.431367</b>	<b>0.401865</b>	<b>2.421</b>	<b>0.812687</b>

**10/15/2001: 61% <100 µm**

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.4261	10	10	µg/ml	111.2313	0.34796	0.11494	142.0615	3.89547	0.31988	0.09917	0.29401	0.39863
Tot2	0.4745	10	10		133.2737	0.39786	0.13007	155.2403	4.16509	0.3532	0.1078	0.34924	0.44523
				µg/g	26104.5	81.66158	26.97489	33339.94	914.215	75.07158	23.27388	69.00023	93.55316
					28087.19	83.84826	27.41201	32716.61	877.785	74.43625	22.71865	73.60169	93.8314
<b>Average</b>					<b>27095.84</b>	<b>82.75492</b>	<b>27.19345</b>	<b>33028.27</b>	<b>896</b>	<b>74.75391</b>	<b>22.99627</b>	<b>71.30096</b>	<b>93.69228</b>
<b>Std</b>					<b>1401.973</b>	<b>1.546216</b>	<b>0.309093</b>	<b>440.764</b>	<b>25.75985</b>	<b>0.449247</b>	<b>0.392606</b>	<b>3.253717</b>	<b>0.196749</b>

**12/2001: 84% <100 µm**

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.75	10	10	µg/ml	260.9113	0.76446	0.24406	274.6148	10.19151	0.62441	0.20182	0.60067	0.90965
Tot2	0.6518	10	10		228.2791	0.66155	0.23106	240.4992	8.849	0.55011	0.17964	0.53992	0.79619
				µg/g	34788.17	101.928	32.54133	36615.3	1358.868	83.25467	26.90933	80.08933	121.2867
					35022.88	101.4959	35.44952	36897.69	1357.625	84.39859	27.5606	82.83523	122.1525
<b>Average</b>					<b>34905.52</b>	<b>101.7119</b>	<b>33.99543</b>	<b>36756.5</b>	<b>1358.247</b>	<b>83.82663</b>	<b>27.23497</b>	<b>81.46228</b>	<b>121.7196</b>
<b>Std</b>					<b>165.965</b>	<b>0.305571</b>	<b>2.056402</b>	<b>199.6806</b>	<b>0.878907</b>	<b>0.808875</b>	<b>0.460516</b>	<b>1.941639</b>	<b>0.612237</b>

**Palo Alto HCl Extracts: 2001****1/9/2001**

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN	
HCl1	0.5377	12	µg/ml	92.48112	0.18562	0.74825	206.0426	43.12164	0.30609	0.93237	0.43836	1.40398	
HCl2	0.5202	12		88.91957	0.17479	0.71363	196.9949	41.80683	0.29046	0.8959	0.4218	1.29333	
			µg/g	2063.927	4.142533	16.6989	4598.311	962.3576	6.831095	20.80796	9.783002	31.33301	
				2051.201	4.032065	16.46205	4544.288	964.4021	6.700346	20.66667	9.730104	29.8346	
<b>Average</b>					<b>2057.564</b>	<b>4.087299</b>	<b>16.58048</b>	<b>4571.299</b>	<b>963.3798</b>	<b>6.765721</b>	<b>20.73731</b>	<b>9.756553</b>	<b>30.58381</b>
<b>Std</b>					<b>6.362823</b>	<b>0.055234</b>	<b>0.118425</b>	<b>27.01142</b>	<b>1.022239</b>	<b>0.065375</b>	<b>0.070647</b>	<b>0.026449</b>	<b>0.749204</b>

**2/5/2001**

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN	
HCl1	0.5451	12	µg/ml	101.3406	0.23396	0.98597	273.7579	18.98625	0.46541	0.95027	0.69176	1.65995	
HCl2	0.514	12		91.98961	0.20726	0.92753	254.0133	17.84705	0.43749	0.90339	0.64096	1.55248	
			µg/g	2230.943	5.150468	21.70545	6026.592	417.9692	10.24568	20.91954	15.22862	36.54265	
				2147.617	4.838755	21.6544	5930.273	416.6626	10.21377	21.09082	14.96405	36.24467	
<b>Average</b>					<b>2189.28</b>	<b>4.994611</b>	<b>21.67992</b>	<b>5978.432</b>	<b>417.3159</b>	<b>10.22973</b>	<b>21.00518</b>	<b>15.09633</b>	<b>36.39366</b>
<b>Std</b>					<b>41.66276</b>	<b>0.155856</b>	<b>0.025526</b>	<b>48.15961</b>	<b>0.653267</b>	<b>0.015953</b>	<b>0.08564</b>	<b>0.132286</b>	<b>0.148992</b>

**3/5/2001**

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN	
HCl1	0.4101	12	µg/ml	83.65668	0.1677	0.68874	186.9426	32.70776	0.2986	0.78244	0.4104	1.46526	
HCl2	0.3916	12		74.91791	0.15709	0.66112	177.8248	31.03076	0.28381	0.74655	0.38995	1.39776	
			µg/g	2447.891	4.907096	20.15333	5470.158	957.0669	8.737381	22.8951	12.00878	42.8752	
				2295.748	4.81379	20.25904	5449.176	950.8915	8.696936	22.87692	11.94944	42.83228	
<b>Average</b>					<b>2371.82</b>	<b>4.860443</b>	<b>20.20618</b>	<b>5459.667</b>	<b>953.9792</b>	<b>8.717158</b>	<b>22.88601</b>	<b>11.97911</b>	<b>42.85374</b>
<b>Std</b>					<b>76.07157</b>	<b>0.046653</b>	<b>0.052856</b>	<b>10.49096</b>	<b>3.08767</b>	<b>0.020223</b>	<b>0.009092</b>	<b>0.02967</b>	<b>0.021462</b>

**4/10/2001**

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.5134	12	µg/ml	93.70329	0.20227	0.76159	222.1549	48.07516	0.3236	0.89682	0.45733	1.60032
HCl2	0.5309	12		100.0114	0.21081	0.79467	230.5687	50.93735	0.33003	0.92697	0.48355	1.69638
			µg/g	2190.182	4.727776	17.80109	5192.557	1123.689	7.563693	20.9619	10.68944	37.40522
				2260.569	4.764965	17.96203	5211.574	1151.343	7.45971	20.95242	10.92974	38.34349
<b>Average</b>				<b>2225.376</b>	<b>4.74637</b>	<b>17.88156</b>	<b>5202.065</b>	<b>1137.516</b>	<b>7.511701</b>	<b>20.95716</b>	<b>10.80959</b>	<b>37.87436</b>
<b>Std</b>				<b>35.19368</b>	<b>0.018595</b>	<b>0.080468</b>	<b>9.508359</b>	<b>13.8272</b>	<b>0.051992</b>	<b>0.00474</b>	<b>0.12015</b>	<b>0.469136</b>

**5/8/2001**

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.5343	12	µg/ml	96.57822	0.19735	0.81091	207.1423	25.17608	0.31523	0.90677	0.46644	1.74967
HCl2	0.5458	12		93.79162	0.18441	0.79256	201.1163	25.43877	0.30452	0.91764	0.45571	1.71962
			µg/g	2169.078	4.432341	18.21246	4652.269	565.4369	7.079843	20.36541	10.47591	39.29635
				2062.11	4.054452	17.42528	4421.758	559.2987	6.6952	20.1753	10.01927	37.8077
<b>Average</b>				<b>2115.594</b>	<b>4.243397</b>	<b>17.81887</b>	<b>4537.013</b>	<b>562.3678</b>	<b>6.887521</b>	<b>20.27036</b>	<b>10.24759</b>	<b>38.55202</b>
<b>Std</b>				<b>53.48443</b>	<b>0.188945</b>	<b>0.39359</b>	<b>115.2553</b>	<b>3.069114</b>	<b>0.192322</b>	<b>0.095055</b>	<b>0.228319</b>	<b>0.744328</b>

**6/12/2001**

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.544	12	µg/ml	70.32916	0.13422	0.64291	165.2024	20.95006	0.25235	0.78726	0.32858	1.38487
HCl2	0.5716	12		76.3589	0.1434	0.69928	173.3575	22.97059	0.26347	0.84938	0.35629	1.5159
			µg/g	1551.379	2.960735	14.18184	3644.17	462.1337	5.566544	17.36603	7.248088	30.5486
				1603.056	3.010497	14.68048	3639.416	482.2377	5.531211	17.83163	7.479846	31.82435
<b>Average</b>				<b>1577.217</b>	<b>2.985616</b>	<b>14.43116</b>	<b>3641.793</b>	<b>472.1857</b>	<b>5.548877</b>	<b>17.59883</b>	<b>7.363967</b>	<b>31.18648</b>
<b>Std</b>				<b>25.83873</b>	<b>0.024881</b>	<b>0.249319</b>	<b>2.377015</b>	<b>10.05202</b>	<b>0.017667</b>	<b>0.232801</b>	<b>0.115879</b>	<b>0.637875</b>

**9/18/2001**

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.3114	12	µg/ml	44.67284	0.07364	0.30188	104.1613	17.4364	0.14164	0.45089	0.20082	0.73656
HCl2	0.3294	12		45.30812	0.07989	0.31931	108.0794	18.05679	0.14876	0.47672	0.20877	0.81929
			µg/g	1721.497	2.837765	11.63314	4013.921	671.9229	5.458189	17.37534	7.738728	28.38382
				1650.569	2.910383	11.63242	3937.319	657.8066	5.419308	17.36685	7.605464	29.84663
<b>Average</b>				<b>1686.033</b>	<b>2.874074</b>	<b>11.63278</b>	<b>3975.62</b>	<b>664.8647</b>	<b>5.438748</b>	<b>17.37109</b>	<b>7.672096</b>	<b>29.11522</b>
<b>Std</b>				<b>35.46384</b>	<b>0.036309</b>	<b>0.000359</b>	<b>38.30094</b>	<b>7.058186</b>	<b>0.01944</b>	<b>0.004244</b>	<b>0.066632</b>	<b>0.731408</b>



10/15/2001

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.4822	12	µg/ml	66.31067	0.12969	0.55568	154.2677	24.50756	0.24072	0.66458	0.32472	1.14844
HCl2	0.4078	12		58.08921	0.10856	0.47681	133.6444	20.95592	0.20989	0.57052	0.27823	0.94208
			µg/g	1650.203	3.227457	13.82862	3839.097	609.8937	5.990543	16.5387	8.080962	28.58001
				1709.344	3.194507	14.0307	3932.646	616.6529	6.176263	16.78823	8.187249	27.72182
<b>Average</b>				<b>1679.774</b>	<b>3.210982</b>	<b>13.92966</b>	<b>3885.872</b>	<b>613.2733</b>	<b>6.083403</b>	<b>16.66346</b>	<b>8.134105</b>	<b>28.15092</b>
<b>Std</b>				<b>29.57039</b>	<b>0.016475</b>	<b>0.101041</b>	<b>46.77416</b>	<b>3.379607</b>	<b>0.09286</b>	<b>0.124766</b>	<b>0.053143</b>	<b>0.429092</b>

12/1/2001

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.5282	12	µg/ml	101.6907	0.19701	0.6965	216.9019	43.0784	0.29457	0.85405	0.45688	1.59264
HCl2	0.5427	12		102.0744	0.19991	0.71166	219.8958	44.03437	0.29966	0.87023	0.46734	1.75168
			µg/g	2310.278	4.475805	15.82355	4927.723	978.6838	6.692238	19.40288	10.3797	36.18266
				2257.035	4.420343	15.73599	4862.263	973.6732	6.625981	19.24223	10.33367	38.73256
<b>Average</b>				<b>2283.656</b>	<b>4.448074</b>	<b>15.77977</b>	<b>4894.993</b>	<b>976.1785</b>	<b>6.659109</b>	<b>19.32256</b>	<b>10.35668</b>	<b>37.45761</b>
<b>Std</b>				<b>26.62151</b>	<b>0.027731</b>	<b>0.043782</b>	<b>32.72981</b>	<b>2.505321</b>	<b>0.033128</b>	<b>0.080322</b>	<b>0.02302</b>	<b>1.274951</b>

**Palo Alto surface sediments, Hg and Se analysis: 1999-2001**

Sample ID	mean Hg ( $\mu\text{g/g}$ )	mean Se ( $\mu\text{g/g}$ )
PA 1/1999	0.41	0.4
PA 2/1999	0.25	0.7
PA 3/1999	0.34	0.6
PA 4/1999	0.30	0.5
PA 5/1999	0.24	0.4
PA 6/1999	0.34	0.3
PA 9/1999	0.25	0.2
PA 11/1999	0.34	0.3
PA 12/1999	0.33	0.4
PA 1/2000	0.33	0.4
PA 2/2000	0.29	0.5
PA 3/2000	0.29	0.4
PA 4/2000	0.29	0.5
PA 6/2000	0.30	0.3
PA 9/2000	0.27	0.3
PA 11/2000	0.26	0.3
PA 12/2000	0.30	0.3
PA 1/2001	0.29	0.3
PA 2/2001	0.43	0.4
PA 4/2001	0.31	0.4
PA 6/2001	0.27	0.3
PA 10/2001	0.35	0.3
PA 12/2001	0.27	0.3

<b>NIST 2709</b>	Found	1.27	1.4
	Accepted	1.40 $\pm$ 0.08	1.6 $\pm$ 0.1