

I. X-RAY MINERALOGY DATA, FAR WESTERN PACIFIC, LEG 31 DEEP SEA DRILLING PROJECT¹

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METHODS

Semiquantitative determinations of the mineral composition of bulk samples, 2-20 μ m, and <2 μ m fractions were performed according to the methods described in the appendix of Volume 28.

The method in sample preparation, in brief, was as follows: Bulk samples were washed to remove seawater salts and ground to <10 μ m under butanol. A portion of the sediment was decalcified in a sodium-acetate-buffered, acetic-acid solution (pH 4.5). The residue was fractionated into 2-20 μ m and <2 μ m samples by wet-sieving and centrifuging. The 2-20 μ m samples were ground to less than 10 μ m. These three preparations were treated with trihexylamine acetate to expand the smectites. All samples were X-rayed as random powders.

The stratigraphic positions of samples submitted for X-ray diffraction analysis from Leg 31 are listed in Table 1. The X-ray mineralogy data are presented in Tables 2 through 16. The sample depth (in m) below the sea floor in Table 1 identifies the samples as they are reported in Tables 2 through 16. No X-ray samples were submitted from Site 300. Summary tables describing the age and lithology of the X-ray samples and listing the dominant minerals in each sample are recorded in expanded summary tables accompanying each Site Report chapter.

The amorphous content (largely consisting of biogenous silica, volcanic glass, allophane, and organic matter) was computed from the diffuse scatter of a sample. This method assumes that the diffuse scatter in excess of the diffuse scatter from the crystalline materials is a measure of the amorphous content. The diffuse scatter of the crystalline minerals is determined from the mineral calibration standards. Ideally the amorphous content varies between 0% and 100%, but, in cases where the minerals in the sample have a higher degree of crystallinity than the calibration standards, negative values can result. The negative values are reported as blanks; these samples can be assumed to contain little or no amorphous material.

The crystalline minerals are quantified by the method of mutual ratios using peak heights and concentration factors derived from ratios of the diagnostic peaks of minerals with the major peak of quartz. Unquantifiable minerals, i.e., unidentified minerals and minerals for which standards are not available, are tentatively quantified using a hypothetical concentration factor of 3.0

which is applied to the major peak of the mineral. The concentrations of the quantifiable minerals is summed to 100%. The amorphous content and the unquantifiable minerals are not included in the total. The unquantifiable minerals are reported on a qualitative scale as trace (<5%), present (5-25%), abundant (25-65%), and major (>65%).

The precision of the mineral determination is approximately ± 1 wt.% of the amount present. Because of differences in the crystallinity between the mineral calibration standards and the minerals in the samples, the accuracy of the reported concentrations is often less than the precision of the method allows. In terms of the reported concentration, smectites may vary by $\pm 50\%$; micas, chlorites, cristobalite, tridymite, and goethite may vary by $\pm 20\%$; kaolinite, amphibole, augite, the feldspars, the zeolites, palygorskite, sepiolite, and apatite may vary by $\pm 10\%$; the minerals which have stable crystal lattices and are not members of solid-solution series or typically have limited crystal-lattice substitution in the sedimentary environment such as quartz, low-magnesium calcite, aragonite, dolomite, rhodochrosite, siderite, gibbsite, talc, barite, anatase, gypsum, anhydrite, halite, pyrite, hematite, and magnetite will vary by less than $\pm 5\%$.

The user of the X-ray mineralogy data should bear in mind that: (1) the reported values are not absolute concentrations and that some adjustment has to be made for the amorphous content and the unquantifiable minerals; (2) in a homogeneous system of minerals, the mineral concentration trends are reliable because of the precision but when comparing mineral concentrations between different geographic regions or lithologic units additional information regarding the crystallinity of the minerals is required; and (3) the representativeness of the samples selected for X-ray diffraction analysis is the responsibility of the shipboard scientists and any questions pertaining to this aspect should be directed to them.

DRILLING MUD USAGE

Drilling mud, containing montmorillonite and barite, was used only at Site 297 between Cores 17 and 18. No X-ray mineralogy samples were submitted from these cores.

ACKNOWLEDGMENTS

The writers wish to acknowledge the excellent work of Nicki D. Coursey in the interpretation of X-ray diffraction data, of Paul D. Johnson in X-ray data acquisition and data processing, and of Tom W. Halverson, Jr., in sample preparation.

¹Institute of Geophysics and Planetary Physics, University of California, Riverside, California, Contribution No. 74-11.

TABLE 1
Stratigraphic Position of X-ray
Mineralogy Samples, Leg 31

Sample (Interval in cm)	Depth Below Sea Floor (m)
290-1-1, 69-71	23.7
290-2-3, 77-80	74.3
290-2-4, 74-76	75.7
290-5-3, 75-77	140.8
290-6-3, 80-82	159.8
290-7-2, 68-70	215.2
290-8-1, 77-79	242.3
290-8-5, 52-54	248.0
290A-1-2, 112-114	111.1
291-1-1, 133-135	1.3
291-2-1, 53-55	60.5
291-3-1, 137-139	80.4
291-4-4, 16-18	102.7
291-4-4, 88-89	103.4
291A-1-1, 43-45	98.4
291A-1-6, 108-110	106.6
292-1-2, 92-94	2.4
292-2-2, 89-91	8.9
292-3-1, 140-142	17.4
292-3-2, 80-82	18.3
292-4-4, 59-61	30.6
292-5-6, 82-84	43.3
292-13-5, 16-18	117.2
292-16-3, 85-87	143.4
292-19-5, 49-51	174.5
292-35-2, 125-127	322.8
292-37-3, 122-124	343.2
292-39-3, 50-52	361.5
293-2-2, 135-137	91.3
293-4-2, 77-79	147.8
293-5-4, 128-130	160.8
293-8-2, 77-79	261.8
293-9-6, 105-107	277.5
293-9-6, 110-113	277.6
293-15-1, 27-29	440.3
293-15-1, 101-103	441.0
293-15-1, 130-132	441.3
293-16-3, 80-82	472.3
293-17-2, 78-83	499.3
293-18-1, 59-61	516.6
294-1-4, 80-82	5.3
294-3-5, 91-93	80.9
294-4-3, 80-82	96.8
294-4-4, 148-150	99.0
294-6-1, 139-141	106.9
295-1-5, 75-77	107.8
295-2-2, 37-39	121.9
295-2-6, 112-114	128.6
295-3-4, 41-43	143.9
296-1-2, 101-103	2.5
296-2-6, 20-22	14.2
296-3-3, 18-20	19.2
296-9-4, 144-146	78.9
296-19-2, 80-82	170.3
296-22-2, 81-83	198.8
296-23-2, 123-124	208.7

TABLE 1 – Continued

Sample (Interval in cm)	Depth Below Sea Floor (m)
296-26-4, 74-76	239.7
296-30-4, 74-76	277.7
296-31-5, 15-17	288.1
296-34-1, 100	311.5
296-36-2, 90	331.9
296-40-3, 44	370.9
296-40-3, 53	371.0
296-40-4, 16	372.2
296-40-4, 145	373.5
296-41-1, 12	377.1
296-41-2, 24	378.7
296-41-2, 93	379.4
296-41-3, 28-30	380.3
296-42-1, 50-52	387.0
296-43-1, 123-125	397.2
296-47-1, 146	435.5
296-52-1, 127-129	549.3
297-3-1, 109-111	21.1
297-4-3, 79-81	42.8
297-5-5, 41-43	64.4
297-6-5, 79-81	83.8
297-12-2, 66-68	250.2
297-14-4, 72-74	319.7
297-24-3, 76-78	622.3
297-26-2, 133-135	668.8
298-2-3, 120-123	130.7
298-5-2, 135-137	195.8
298-6-2, 95-97	281.0
298-9-1, 131-133	336.8
298-11-3, 14-15	395.6
298-14-2, 106-108	518.6
298-15-5, 80-82	570.3
298-16-2, 130-132	604.3
298A-1-1, 147-149	51.9
299-6-5, 83-85	54.5
299-6-5, 121-123	54.7
299-9-5, 53-55	82.5
299-18-4, 86	166.9
299-26-1, 99-101	238.5
299-33-2, 88-90	420.4
299-38-1, 112-114	523.6
301-2-3, 74-76	120.7
301-4-2, 80-82	157.3
301-4-2, 120-122	157.7
301-8-4, 100-102	246.0
301-13-1, 132-133	355.8
301-15-2, 142-144	395.4
301-17-1, 83-85	450.3
301-18-4, 117-119	474.2
301-18-4, 136-138	474.4
302-2-5, 130-132	26.3
302-3-1, 71-73	38.7
302-5-4, 147-149	82.0
302-7-5, 86-88	120.9
302-10-1, 63-65	171.6
302-15-1, 86-88	266.9
302-17-1, 14-16	456.1

TABLE 2
Results of X-Ray Diffraction Analysis From Hole 290

Core	Cored Interval Below Sea Floor (m)	Sample Depth Below Sea Floor (m)	Amor.	Calc.	Quar.	K-Fe.	Plag.	Mica.	Chlo.	Mont.	Clin.	Phil.	Anal.	Augi.	Goet.	Kaol.
Bulk Samples																
1	23.0-32.5	23.7	62.8	—	25.2	3.6	18.1	42.6	6.1	4.5	—	—	—	—	—	—
2	70.5-80.0	74.3 ^a	64.4	1.5	—	—	16.1	—	—	70.9	—	11.5	—	—	—	—
		74.3 ^b	48.2	—	5.3	—	8.2	4.2	—	8.4	—	73.9	—	—	Pres	—
		75.7	61.6	—	8.3	—	11.8	6.1	4.1	8.9	0.8	60.1	—	—	Pres	—
5	137.0-146.5	140.8	64.7	33.7	1.5	—	21.5	—	—	33.4	—	9.9	—	—	—	—
6	156.0-165.5	159.8	64.2	35.3	2.2	—	24.4	—	—	30.1	—	8.0	—	—	—	—
7	213.0-222.5	215.2	68.1	25.6	3.2	—	27.1	—	—	31.1	—	11.8	1.2	—	—	—
8	241.5-251.0	242.3	26.3	—	—	—	—	—	—	8.9	—	70.9	—	20.2	—	—
		248.0	36.0	27.0	0.6	—	27.8	—	—	—	—	22.8	—	21.8	—	—
2-20μm Fraction																
1	23.0-32.5	23.7	41.8	—	33.4	3.8	22.6	33.8	6.3	—	—	—	—	—	—	—
2	70.5-80.0	75.7	14.9	—	5.2	—	10.0	2.5	0.6	—	0.6	81.1	—	—	—	—
5	137.0-146.5	140.8	58.2	—	4.2	—	39.7	—	—	43.1	—	13.1	—	—	—	—
6	156.0-165.5	159.8	58.2	—	3.4	—	42.6	—	—	39.7	—	13.0	—	1.3	—	—
7	213.0-222.5	215.2	58.3	—	3.1	—	49.0	—	—	28.0	—	16.7	—	3.2	—	—
<2μm Fraction																
1	23.0-32.5	23.7	69.3	—	21.7	3.4	13.6	28.5	3.7	23.9	—	—	—	—	—	5.1
2	70.5-80.0	75.7	77.8	—	8.9	—	8.8	9.4	—	56.5	—	16.4	—	—	—	—
5	137.0-146.5	140.8	42.1	—	0.7	—	5.5	—	—	91.6	—	2.3	—	—	—	—
6	156.0-165.5	159.8	47.7	—	0.5	—	4.8	—	—	94.7	—	—	—	—	—	—
7	213.0-222.5	215.2	53.0	—	—	—	8.0	—	—	87.8	—	4.2	—	—	—	—

^aRed clay matrix.^bWhite crystals from red clay matrix.

TABLE 3
Results of X-Ray Diffraction Analysis From Hole 290A

Core	Cored Interval Below Sea Floor (m)	Sample Depth Below Sea Floor (m)	Amor.	Calc.	Quar.	Plag.	Mont.	Phil.	Augi.
Bulk Samples									
1	108.5-118.0	111.1	71.6	29.8	3.4	27.4	19.1	13.5	6.9
2-20μm Fraction									
1	108.5-118.0	111.1	67.8		4.7	38.3	25.6	21.3	10.1
<2μm Fraction									
1	108.5-118.0	111.1	66.8			8.5	68.4	23.1	

TABLE 4
Results of X-Ray Diffraction Analysis From Hole 291

Core	Cored Interval Below Sea Floor (m)	Sample Depth Below Sea Floor (m)	Amor.	Quar.	Cris.	K-Fe.	Plag.	Mica	Chlo.	Mont.	Trid.	Clin.	Amph.
Bulk Samples													
1	0.0-3.0	1.3	68.6	23.0	—	5.8	26.1	20.9	5.1	17.6	—	—	1.5
2	60.0-69.5	60.5	70.2	24.3	—	—	30.4	19.0	5.1	17.8	—	1.8	1.5
3	79.0-88.5	80.4	85.6	8.5	—	—	36.8	6.8	—	47.8	—	—	—
4	98.0-107.5	102.7	25.0	5.8	77.0	—	—	—	—	—	17.2	—	—
		103.4	53.4	1.8	42.2	—	2.3	3.2	—	36.4	5.7	8.5	—
2-20μm Fraction													
1	0.0-3.0	1.3	54.5	29.6	—	—	34.1	17.5	5.4	10.1	—	—	3.3
2	60.0-69.5	60.5	53.9	31.1	—	—	35.6	15.3	5.7	7.7	—	1.7	2.8
3	79.0-88.5	80.4	89.0	14.4	—	—	50.0	3.4	2.8	29.4	—	—	—
4	98.0-107.5	103.4	50.4	2.2	52.6	—	2.4	1.5	—	12.5	11.5	17.3	—
<2μm Fraction													
1	0.0-3.0	1.3	71.9	16.0	—	4.8	13.0	21.2	11.4	33.6	—	—	—
2	60.0-69.5	60.5	68.0	16.3	—	—	12.7	23.3	8.0	39.6	—	—	—
3	79.0-88.5	80.4	78.4	9.5	—	—	16.7	4.9	2.0	66.8	—	—	—
4	98.0-107.5	103.4	60.9	2.2	20.9	—	—	4.1	—	65.7	5.5	1.6	—

TABLE 5
Results of X-Ray Diffraction Analysis From Hole 291A

Core	Cored Interval Below Sea Floor (m)	Sample Depth Below Sea Floor (m)	Amor.	Quar.	Mica	Mont.	Clin.	Goet.
Bulk Samples								
1	98.0-107.5	98.4	80.2	8.4	9.5	31.7	50.5	P
		106.6	88.6	8.8	—	—	91.2	M
2-20μm Fraction								
1	98.0-107.5	98.4	76.5	5.2	6.5	18.8	69.5	P
		106.6	85.8	4.2	—	—	95.8	M
<2μm Fraction								
1	98.0-107.5	98.4	77.5	11.7	—	88.3	—	A
		106.6	79.6	31.4	—	68.6	—	M

TABLE 6
Results of X-Ray Diffraction Analysis From Hole 292

Core	Cored Interval Below Sea Floor (m)	Sample Depth Below Sea Floor (m)	Amor.	Calc.	Quar.	K-Fe.	Plag.	Mica	Chlo.	Mont.	Clin.	Anal.	Amph.	Hema.	Augi.	U-1 ^a
Bulk Samples																
1	0.0-6.5	2.4	71.6	39.1	15.1	—	21.7	9.7	1.9	7.5	1.3	—	3.8	—	—	—
2	6.5-16.0	8.9	79.4	32.8	14.4	—	31.0	12.8	2.9	6.2	—	—	—	—	—	—
3	16.0-25.5	17.4	64.0	66.8	7.4	—	14.1	4.3	2.8	4.5	—	—	—	—	—	—
		18.3	68.9	46.4	4.8	—	29.7	3.5	1.5	5.3	—	—	—	—	8.9	—
4	25.5-35.0	30.6	51.5	82.6	4.4	—	6.0	1.8	1.7	2.0	—	—	1.5	—	—	—
5	35.0-44.5	43.3	28.7	95.1	1.4	—	2.9	—	0.7	—	—	—	—	—	—	—
13	111.0-120.5	117.2	37.6	81.1	1.1	2.3	3.4	2.5	—	9.7	—	—	—	—	—	—
16	139.5-149.0	143.4	42.4	74.8	0.5	—	12.5	1.1	—	4.3	0.9	—	5.9	—	—	—
19	168.0-177.5	174.5	32.5	92.1	0.5	—	7.4	—	—	—	—	—	—	—	—	—
35	320.0-329.5	322.8	22.7	93.9	0.4	—	4.4	—	—	1.3	—	—	—	—	—	—
37	339.0-348.5	343.2	80.9	17.9	11.8	—	56.4	—	—	9.3	—	—	—	—	4.7	—
39	358.0-367.5	361.5	11.5	100.0	—	—	—	—	—	—	—	—	—	—	—	—
2-20μm Fraction																
1	0.0-6.5	2.4	78.0	—	26.1	—	46.3	6.2	4.3	—	1.9	—	—	—	15.3	—
2	6.5-16.0	8.9	72.6	—	30.6	—	41.1	10.1	4.2	—	—	—	4.5	—	9.3	—
3	16.0-25.5	17.4	65.8	—	25.0	—	39.3	9.6	3.5	9.1	1.7	—	4.1	—	7.5	—
		18.3	79.6	—	14.3	—	53.8	1.8	2.1	8.2	—	—	2.3	—	17.5	—
4	25.5-35.0	30.6	58.7	—	29.2	—	39.0	7.7	5.4	7.6	3.5	1.1	6.5	—	—	P
5	35.0-44.5	43.3	58.4	—	18.6	—	51.8	4.4	5.4	9.9	2.6	0.9	6.4	—	—	T
13	111.0-120.5	117.2	59.7	—	9.6	21.4	22.9	3.6	3.3	37.2	2.1	—	—	—	—	—
16	139.5-149.0	143.4	71.9	—	5.1	—	49.0	—	—	18.2	4.4	—	23.3	—	—	—
19	168.0-177.5	174.5	87.0	—	9.2	—	72.7	3.2	—	—	—	—	1.9	—	13.0	—
35	320.0-329.5	322.8	80.7	—	12.7	—	62.1	—	—	12.3	—	—	—	—	12.9	—
37	339.0-348.5	343.2	87.3	—	8.4	—	74.5	—	—	4.8	—	—	—	—	12.2	—
39	358.0-367.5	361.5	44.8	—	6.2	—	30.7	—	—	9.8	53.3	—	—	—	—	—
<2μm Fraction																
1	0.0-6.5	2.4	69.6	—	12.7	—	16.3	20.0	5.8	42.2	3.0	—	—	—	—	—
2	6.5-16.0	8.9	71.7	—	15.8	—	15.1	14.5	4.5	50.1	—	—	—	—	—	—
3	16.0-25.5	17.4	71.1	—	14.2	—	14.6	13.2	3.2	54.8	—	—	—	—	—	—
		18.3	75.7	—	8.7	—	23.0	4.1	1.7	54.5	—	—	—	—	7.9	—
4	25.5-35.0	30.6	68.1	—	12.1	—	19.0	11.0	10.0	44.4	3.5	—	—	—	—	—
5	35.0-44.5	43.3	25.6	—	0.7	—	1.1	—	—	98.2	—	—	—	—	—	—
13	111.0-120.5	117.2	26.1	—	1.7	—	—	—	—	98.3	—	—	—	—	—	—
16	139.5-149.0	143.4	56.8	—	1.2	—	7.5	—	—	88.7	2.6	—	—	—	—	—
19	168.0-177.5	174.5	78.1	—	8.4	—	38.2	—	—	39.5	1.4	—	—	3.9	8.6	—
35	320.0-329.5	322.8	61.3	—	3.7	—	19.1	—	—	77.2	—	—	—	—	—	—
37	339.0-348.5	343.2	78.5	—	4.2	—	39.1	—	—	46.5	—	—	—	—	10.2	—
39	358.0-367.5	361.5	49.0	—	6.4	—	9.3	—	—	76.5	7.7	—	—	—	—	—

^aU-1 peaks at 9.46Å, 4.16Å, and 2.705Å.

TABLE 7
Results of X-Ray Diffraction Analysis From Hole 293

Core	Cored Interval Below Sea Floor (m)	Sample Depth Below Sea Floor (m)	Amor.	Calc.	Quar.	K-Fe.	Plag.	Mica	Chlo.	Mont.	Clin.	Phil.	Pyri.	Amph.	Goet.	U-1 ^a
Bulk Samples																
2	88.5-98.0	91.3	64.5	1.4	18.5	—	39.4	14.1	3.6	20.2	—	—	—	2.8	—	T
4	145.5-155.0	147.8	60.6	—	17.8	—	48.8	15.6	2.8	9.6	—	—	—	5.5	—	T
5	155.0-164.5	160.8	67.3	—	22.5	—	50.5	—	2.2	12.9	4.1	—	4.2	3.6	—	T
8	259.5-269.0	261.8	69.3	—	21.6	—	38.7	5.3	5.9	21.5	5.4	—	—	1.6	—	T
9	269.0-278.5	277.5	68.0	—	22.2	—	33.8	8.6	6.5	23.9	3.3	—	—	1.8	—	T
		277.6	67.4	—	22.0	—	50.5	2.6	2.1	17.3	4.2	—	—	1.3	—	T
15	440.0-449.5	440.3	63.8	—	26.5	—	29.2	21.2	5.5	17.8	—	—	—	—	—	—
		441.0	49.7	—	7.1	—	9.0	4.0	—	19.6	—	60.3	—	—	—	—
		441.3	66.0	—	20.6	—	32.8	16.6	3.3	25.4	1.3	—	—	—	—	—
16	468.5-478.0	472.3	62.6	—	22.8	—	11.6	22.9	5.7	36.9	—	—	—	—	—	—
17	497.0-506.5	499.3	52.3	—	4.6	11.8	2.9	5.2	—	75.5	—	—	—	—	—	—
18	516.0-521.0	516.6	79.6	—	19.8	28.1	3.2	22.5	4.9	21.6	—	—	—	—	A	—
2-20μm Fraction																
2	88.5-98.0	91.3	54.9	—	23.6	—	42.7	12.5	4.4	12.0	2.1	—	—	2.6	—	T
4	145.5-155.0	147.8	47.4	—	23.8	—	42.3	14.3	4.0	10.1	1.5	—	—	4.0	—	T
5	155.0-164.5	160.8	57.5	—	21.9	—	44.2	3.8	2.2	9.2	2.8	—	11.2	4.6	—	T
8	259.5-269.0	261.8	84.0	—	22.6	—	44.2	6.8	4.3	16.2	3.2	—	—	2.7	—	T
9	269.0-278.5	277.5	56.3	—	23.1	—	42.6	6.1	2.5	20.4	3.8	—	—	1.5	—	T
		277.6	56.1	—	24.6	—	41.1	9.0	3.2	17.0	4.0	—	—	1.1	—	—
15	440.0-449.5	440.3	54.6	—	33.8	—	26.1	29.1	5.4	5.6	—	—	—	—	—	—
		441.0	40.1	—	7.6	—	11.5	5.0	—	9.5	1.0	65.3	—	—	—	—
		441.3	62.8	—	31.0	—	37.5	16.6	5.1	8.7	1.1	—	—	—	—	—
16	468.5-478.0	472.3	49.4	—	28.8	—	15.6	35.4	5.6	14.6	—	—	—	—	—	—
17	497.0-506.5	499.3	52.4	—	8.4	25.7	4.2	1.7	2.4	57.5	—	—	—	—	—	—
18	516.0-521.0	516.6	81.9	—	31.6	54.6	7.7	—	6.2	—	—	—	—	—	A	—
<2μm Fraction																
2	88.5-98.0	91.3	59.5	—	8.6	—	14.4	11.3	5.1	58.6	2.1	—	—	—	—	—
4	145.5-155.0	147.8	64.9	—	10.4	—	16.9	14.5	4.3	52.4	1.4	—	—	—	—	—
5	155.0-164.5	160.8	65.2	—	6.7	—	15.3	4.7	3.9	65.9	1.4	—	2.1	—	—	—
8	259.5-269.0	261.8	60.0	—	6.5	—	7.6	3.6	3.0	77.0	2.3	—	—	—	—	—
9	269.0-278.5	277.5	54.3	—	7.0	—	9.3	10.8	4.5	66.6	1.8	—	—	—	—	—
		277.6	56.6	—	4.2	—	10.5	—	3.2	78.1	3.9	—	—	—	—	—
15	440.0-449.5	440.3	56.9	—	11.0	—	4.0	17.9	5.0	62.1	—	—	—	—	—	—
		441.0	58.5	—	2.8	—	5.9	—	—	84.1	—	7.2	—	—	—	—
		441.3	60.9	—	9.8	—	8.0	10.6	3.7	68.0	—	—	—	—	—	—
16	468.5-478.0	472.3	44.6	—	8.1	—	2.7	11.5	3.8	74.0	—	—	—	—	—	—
17	497.0-506.5	499.3	25.0	—	0.4	1.8	—	—	—	97.8	—	—	—	—	—	—
18	516.0-521.0	516.6	77.3	—	14.5	11.5	2.5	9.4	3.3	58.7	—	—	—	—	A	—

^aU-1 peaks at 9.46Å, 4.16Å, and 2.705Å.

TABLE 8
Results of X-Ray Diffraction Analysis From Hole 294

Core	Cored Interval Below Sea Floor (m)	Sample Depth Below Sea Floor (m)	Amor.	Quar.	K-Fe.	Plag.	Mica	Chlo.	Mont.	Clin.	Hema.	Goet.
Bulk Samples												
1	0.0-7.5	5.3	60.8	34.2	—	18.6	38.6	5.2	3.4	—	—	—
3	74.0-83.5	80.9	64.5	9.4	26.0	—	—	—	64.6	—	—	—
4	93.0-102.5	96.8	81.2	21.1	41.1	—	9.9	—	24.7	3.1	—	M
		99.0	76.9	5.9	24.8	7.1	—	—	28.1	—	34.2	P
6	105.5-112.0	106.9	4.7	1.3	—	—	—	—	28.9	—	69.8	—
2-20μm Fraction												
1	0.0-7.5	5.3	49.3	39.8	—	23.4	31.8	5.0	—	—	—	—
3	74.0-83.5	80.9	48.0	7.6	17.2	—	10.4	1.3	63.4	—	—	—
4	93.0-102.5	96.8	78.2	14.9	40.4	—	12.4	—	24.1	8.2	—	A
		99.0	76.0	7.7	40.2	8.1	3.9	—	29.3	—	10.7	P
6	105.5-112.0	106.9	51.3	11.8	17.5	3.6	5.0	3.9	25.1	—	33.1	—
<2μm Fraction												
1	0.0-7.5	5.3	70.8	28.4	—	15.9	38.1	4.8	12.9	—	—	—
3	74.0-83.5	80.9	58.6	3.2	10.8	—	—	—	86.0	—	—	—
4	93.0-102.5	96.8	83.1	17.2	33.6	—	14.1	—	35.2	—	—	M
		99.0	80.2	3.3	8.9	—	—	—	32.4	—	55.3	P
6	105.5-112.0	106.9	16.0	0.7	—	—	—	—	28.9	—	70.5	—

TABLE 9
Results of X-Ray Diffraction Analysis From Hole 295

Core	Cored Interval Below Sea Floor (m)	Sample Depth Below Sea Floor (m)	Amor.	Quar.	K-Fe.	Plag.	Mica	Chlo.	Mont.	Clin.	Goet.
Bulk Samples											
1	101.0-110.5	107.8	66.0	27.4	13.4	7.2	18.2	3.4	30.5	—	—
2	120.0-129.5	121.9	70.2	12.2	29.7	11.7	7.1	—	—	39.3	—
		128.6	79.5	5.5	25.4	3.7	—	—	10.7	54.7	M
3	139.0-148.5	143.9	80.9	10.3	14.4	7.5	—	—	12.1	55.8	M
2-20μm Fraction											
1	101.0-110.5	107.8	57.5	35.5	17.0	12.0	23.7	3.3	8.5	—	—
2	120.0-129.5	121.9	48.3	8.0	16.8	4.0	2.8	—	19.6	48.9	—
		128.6	64.7	3.5	19.0	4.9	2.8	—	6.6	63.2	P
3	129.0-148.5	143.9	69.5	11.6	9.4	5.2	—	—	6.6	67.3	P
<2μm Fraction											
1	101.0-110.5	107.8	59.9	17.7	7.0	6.4	14.0	4.3	50.6	—	—
2	120.0-129.5	121.9	60.1	5.4	14.9	—	—	—	78.0	1.7	—
		128.6	82.9	17.5	—	—	—	—	71.4	11.1	M
3	139.0-148.5	143.9	82.8	22.6	—	—	—	—	64.3	13.0	M

TABLE 10
Results of X-Ray Diffraction Analysis From Hole 295

Core	Cored Interval Below Sea Floor (m)	Sample Depth Below Sea Floor (m)	Amor.	Calc.	Quar.	Plag.	Kaol.	Mica	Chlo.	Mont.	Clin.	Augi.
Bulk Samples												
1	0.0-6.5	2.5	59.7	46.1	22.3	10.9		17.5	3.1	—		—
2	6.5-16.0	14.2	42.6	64.4	13.1	6.8		12.8	1.6	1.3		—
3	16.0-25.5	19.2	48.3	72.5	9.3	4.6		7.0	1.8	4.8		—
9	73.0-82.5	78.9	43.9	63.7	15.0	6.3		12.7	2.3	—		—
19	168.0-177.5	170.3	38.8	82.0	7.2	3.3		7.5	—	—		—
22	196.5-206.0	198.8	33.1	87.7	5.4	2.2		4.7	—	—		—
23	206.0-215.5	208.7	40.4	80.7	7.9	4.3		7.1	—	—		—
26	234.5-244.0	239.7	50.0	73.7	10.1	7.0		7.6	—	1.5		—
30	272.5-282.0	277.7	41.5	91.6	2.9	1.4		3.0	—	1.1		—
31	282.0-291.5	288.1	57.7	75.8	6.2	9.0		6.3	—	2.8		—
34	310.5-320.0	311.5	47.4	90.5	3.4	2.2		2.4	—	1.5		—
36	329.5-339.0	331.9	38.3	92.7	1.5	1.9		2.3	—	1.7		—
40	367.5-377.0	370.9	78.4	9.2	3.3	50.2		4.1	—	21.9		11.3
		371.0	71.0	14.1	4.9	58.1		—	—	2.2		20.7
		372.2	77.7	3.9	12.5	56.3		—	1.3	13.4		12.5
		373.5	52.8	45.7	2.1	36.1		—	—	5.1		11.1
41	377.0-386.5	377.1	62.1	5.3	5.1	63.8		—	—	9.4		16.4
		378.7	67.4	21.9	5.3	39.4		—	1.8	25.0		6.6
		379.4	74.8	4.2	4.6	66.4		—	—	7.4		17.4
		380.3	73.2	—	5.0	60.9		—	—	20.0		14.1
42	386.5-396.0	387.0	78.6	16.4	3.7	48.9		—	—	11.0		19.9
43	396.0-405.5	397.2	77.0	25.4	3.8	49.4		—	—	5.3		16.1
47	434.0-443.5	435.5	92.1	48.7	3.7	43.5		—	—	4.1		—
52	548.0-557.5	549.3	66.8	23.9	3.5	57.4		—	—	2.3		12.9
2-20μm Fraction												
1	0.0-6.5	2.5	59.1		49.4	24.6		22.1	3.9	—	—	—
2	6.5-16.0	14.2	52.5		54.0	24.7		17.6	3.7	—	—	—
3	16.0-25.5	19.2	57.6		42.7	21.7		23.4	5.1	7.1	—	—
9	73.0-82.5	78.9	52.8		48.6	21.2		25.7	4.5	—	—	—
19	168.0-177.5	170.3	51.4		48.1	24.1		24.2	3.6	—	—	—
22	196.5-206.0	198.8	49.6		47.5	23.8		24.6	4.1	—	—	—
23	206.0-215.5	208.7	66.6		51.3	26.5		17.8	4.4	—	—	—
26	234.5-244.0	239.7	66.9		49.1	30.7		17.8	2.4	—	—	—
30	272.5-282.0	277.7	82.1		40.4	29.2		24.3	6.1	—	—	—
31	282.0-291.5	288.1	82.1		36.8	41.8		19.4	2.0	—	—	—
34	310.5-320.0	311.5	86.4		41.0	36.9		20.0	2.2	—	—	—
36	329.5-339.0	331.9	70.1		30.9	32.7		14.2	2.6	12.0	—	7.5
40	367.5-377.0	370.9	80.2		7.0	68.5		—	—	—	—	24.5
		371.0	71.6		4.8	67.7		—	5.4	—	—	22.0
		372.2	74.1		11.1	72.2		—	2.9	—	—	13.9
		373.5	67.4		6.5	75.7		—	—	—	—	17.8
41	377.0-386.5	377.1	64.9		5.9	78.4		—	—	—	—	15.6
		378.7	70.9		7.7	69.0		—	1.5	11.7	1.0	9.1
		379.4	79.9		6.9	78.9		—	—	—	—	14.2
		380.3	79.6		7.1	77.1		—	—	—	—	15.8
42	386.5-396.0	387.0	81.4		5.8	68.8		—	—	3.0	—	22.4
43	396.0-405.5	397.2	81.0		7.7	75.6		—	—	—	—	16.7
47	434.0-443.5	435.5	93.4		12.6	87.4		—	—	—	—	—
52	548.0-557.5	549.3	68.7		3.9	73.1		—	—	—	—	23.0
<2μm Fraction												
1	0.0-6.5	2.5	57.4		25.5	12.0	—	44.7	8.5	9.3	—	—
2	6.5-16.0	14.2	57.0		22.6	7.6	—	45.7	5.9	18.2	—	—
3	16.0-25.5	19.2	69.0		25.7	10.0	—	23.4	4.0	37.0	—	—
9	73.0-82.5	78.9	62.8		23.5	11.7	—	45.3	6.6	12.9	—	—
19	168.0-177.5	170.3	61.9		21.2	9.2	—	37.1	5.9	26.6	—	—
22	196.5-206.0	198.8	67.1		28.1	11.1	—	28.4	6.1	26.3	—	—
23	206.0-215.5	208.7	70.3		33.1	12.1	5.4	21.6	2.2	25.5	—	—
26	234.5-244.0	239.7	65.3		30.5	13.0	2.2	29.0	4.9	20.4	—	—
30	272.5-282.0	277.7	74.0		24.8	10.3	—	20.6	5.0	39.3	—	—
31	282.0-291.5	288.1	68.1		24.4	11.5	3.1	22.8	2.6	35.5	—	—

TABLE 10 – Continued

Core	Cored Interval Below Sea Floor (m)	Sample Below Sea Floor (m)	Amor.	Calc.	Quar.	Plag.	Kaol.	Mica	Chlo.	Mont.	Clin.	Augi.
34	310.5-320.0	311.5	68.5		28.8	14.7	2.1	17.4	2.2	34.9	—	—
36	329.5-339.0	331.9	67.6		23.8	14.8	2.6	12.5	0.9	45.4	—	—
40	367.5-377.0	370.9	66.9		1.8	38.9	—	—	3.9	39.1	2.6	13.8
		371.0	66.1		3.1	42.7	—	—	—	37.2	—	17.0
		372.2	69.1		2.2	28.5	—	—	9.3	51.1	—	8.8
		373.5	66.3		3.8	43.5	—	—	—	42.2	—	10.5
41	377.0-386.5	377.1	68.7		2.1	50.4	—	—	—	34.1	—	13.4
		378.7	67.2		1.4	19.3	—	—	4.0	70.5	—	4.8
		379.4	72.6		2.8	61.9	—	—	—	24.4	—	10.9
		380.3	69.2		3.1	54.3	—	—	1.7	41.0	—	—
42	386.5-396.0	387.0	75.9		3.1	69.2	—	—	2.4	—	—	25.3
43	396.0-405.5	397.2	73.0		4.7	41.4	—	—	1.9	42.3	1.8	8.0
47	434.0-443.5	435.5	80.2		4.9	36.3	—	—	1.5	57.4	—	—
52	548.0-557.5	549.3	65.0		3.3	62.3	—	—	—	11.7	—	22.6

TABLE 11
Results of X-Ray Diffraction Analysis From Hole 297

Core	Cored Interval Below Sea Floor (m)	Sample Depth Below Sea Floor (m)	Amor.	Calc.	Quar.	Plag.	Mica	Chlo.	Mont.	Pyri.
Bulk Samples										
3	20.0-29.5	21.1	64.9	—	41.9	22.1	28.5	5.7	1.8	
4	39.0-48.5	42.8	59.5	—	40.7	18.8	32.5	5.2	2.8	
5	58.0-67.5	64.4	54.3	18.6	33.0	16.3	25.4	3.7	3.1	
6	77.0-86.5	83.8	61.8	10.9	34.8	20.5	25.8	4.2	3.8	
12	248.0-257.5	250.2	61.1	—	36.6	19.6	32.9	5.5	5.4	
14	314.5-324.0	319.7	57.2	—	33.4	15.6	34.0	4.9	12.1	
24	618.5-628.0	622.3	73.3	—	28.6	12.8	19.2	1.7	37.7	
26	666.0-675.5	668.8	52.8	—	34.0	13.6	28.3	1.3	22.8	
2-20μm Fraction										
3	20.0-29.5	21.1	49.3	—	48.1	28.6	18.6	4.7	—	
4	39.0-48.5	42.8	50.6	—	49.0	26.5	19.4	5.1	—	
5	58.0-67.5	64.4	45.7	—	46.2	27.9	20.9	4.9	—	
6	77.0-86.5	83.8	53.0	—	48.1	29.0	18.3	4.6	—	
12	248.0-257.5	250.2	50.2	—	44.8	22.6	27.1	5.5	—	
14	314.5-324.0	319.7	46.5	—	49.1	23.8	23.1	4.0	—	
24	618.5-628.0	622.3	73.8	—	44.9	31.0	16.3	3.0	4.9	
26	666.0-675.5	668.8	47.6	—	49.3	23.3	25.8	1.7	—	
<2μm Fraction										
3	20.0-29.5	21.1	60.4	—	26.1	12.5	42.4	6.7	12.4	—
4	39.0-48.5	42.8	60.2	—	25.7	10.8	42.6	5.9	12.2	2.7
5	58.0-67.5	64.4	54.8	—	25.2	10.4	41.9	5.9	16.6	—
6	77.0-86.5	83.8	56.6	—	29.5	13.6	38.9	5.2	12.8	—
12	248.0-257.5	250.2	60.6	—	25.7	11.4	40.8	5.8	16.3	—
14	314.5-324.0	319.7	64.0	—	33.8	10.4	25.2	6.1	24.4	—
24	618.5-628.0	622.3	55.3	—	20.2	7.7	24.6	2.5	45.1	—
26	666.0-675.5	668.8	58.1	—	23.6	4.6	14.0	1.0	56.8	—

TABLE 12
Results of X-Ray Diffraction Analysis From Hole 298

Core	Cored Interval Below Sea Floor (m)	Sample Depth Below Sea Floor (m)	Amor.	Calc.	Quar.	Plag.	Mica	Chlo.	Mont.	Amph.	Pyri.
Bulk Samples											
2	126.5-136.0	130.7	50.0	—	39.5	24.9	25.4	5.4	3.7	1.1	
5	193.0-202.5	195.8	55.9	5.6	46.8	28.3	16.2	3.0	—	—	
6	278.5-288.0	281.0	54.0	—	40.7	28.3	22.7	4.2	4.2	—	
9	335.5-345.0	336.8	56.6	3.6	31.0	24.0	30.1	6.9	3.4	1.1	
11	392.5-402.0	395.6	50.9	—	38.0	25.6	27.0	6.3	3.1	—	
14	516.0-525.5	518.6	48.8	1.8	36.6	21.8	30.5	5.4	3.9	—	
15	563.5-573.0	570.3	51.9	—	38.7	21.1	29.6	6.6	4.0	—	
16	601.5-611.0	604.3	48.5	—	39.9	23.1	24.6	5.7	5.5	1.2	
2-20μm Fraction											
2	126.5-136.0	130.7	48.1	—	48.7	30.3	16.0	4.0	—	1.0	
5	193.0-202.5	195.8	56.1	—	51.5	28.7	14.9	4.9	—	—	
6	278.5-288.0	281.0	51.5	—	46.4	33.4	15.4	4.8	—	—	
9	335.5-345.0	336.8	54.6	—	43.3	32.3	17.9	5.4	—	1.1	
11	392.5-402.0	395.6	49.6	—	45.2	30.6	17.8	5.3	—	1.1	
14	516.0-525.5	518.6	50.6	—	47.9	30.9	14.8	5.1	—	1.3	
15	563.5-573.0	570.3	53.1	—	45.8	29.1	18.4	5.6	—	1.1	
16	601.5-611.0	604.3	51.9	—	48.3	31.4	15.8	4.5	—	—	
<2μm Fraction											
2	126.5-136.0	130.7	63.1	—	30.0	12.9	30.8	5.2	20.0	—	1.1
5	193.0-202.5	195.8	57.8	—	27.1	11.6	39.4	8.0	13.9	—	—
6	278.5-288.0	281.0	52.0	—	30.6	15.8	34.9	7.5	11.3	—	—
9	335.5-345.0	336.8	58.6	—	29.6	13.9	38.7	8.3	9.5	—	—
11	392.5-402.0	395.6	50.4	—	28.0	14.6	38.4	7.5	11.4	—	—
14	516.0-525.5	518.6	54.1	—	28.0	14.6	36.9	7.6	12.9	—	—
15	563.5-573.0	570.3	59.4	—	30.5	14.9	37.2	6.7	10.7	—	—
16	601.5-611.0	604.3	55.7	—	29.1	14.5	33.5	6.4	16.4	—	—

TABLE 13
Results of X-Ray Diffraction Analysis From Hole 298A

Core	Cored Interval Below Sea Floor (m)	Sample Depth Below Sea Floor (m)	Amor.	Quar.	Plag.	Mica	Chlo.	Mont.
Bulk Samples								
1	50.5-60.0	51.9	52.5	43.6	24.7	22.3	4.8	4.6
2-20μm Fraction								
1	50.5-60.0	51.9	51.0	50.5	31.3	13.9	4.3	—
<2μm Fraction								
1	50.5-60.0	51.9	49.4	27.6	13.4	39.5	7.5	12.0

TABLE 14
Results of X-Ray Diffraction Analysis From Hole 299

Core	Cored Interval Below Sea Floor (m)	Sample Depth Below Sea Floor (m)	Amor.	Calc.	Dolo.	Quar.	K-Fe.	Plag.	Kaol.	Mica	Chlo.	Mont.	Clin.	Pyri.
Bulk Samples														
6	47.5-57.0	54.5	59.4	—	1.8	41.4	3.4	19.9	—	23.9	5.6	2.3	—	1.7
		54.7	70.2	5.7	—	32.5	4.9	16.9	—	24.7	4.2	3.2	—	7.8
9	76.0-85.5	82.5	69.9	3.8	—	30.5	4.6	26.2	3.5	15.0	2.6	10.3	—	3.5
18	161.5-171.0	166.9	67.7	—	—	39.3	5.8	25.7	—	15.6	2.1	11.4	—	—
26	237.5-247.0	238.5	62.3	—	—	35.7	8.6	23.9	—	13.8	2.1	12.9	—	3.0
33	418.0-427.5	420.4	52.9	—	—	30.8	3.8	17.1	—	25.2	5.6	16.2	—	1.2
38	522.5-532.0	523.6	53.1	—	—	24.6	3.7	14.3	—	16.5	5.1	30.3	2.7	2.7
2-20μm Fraction														
6	47.5-57.0	54.5	44.6	—	—	41.4	4.6	22.6	—	23.4	5.5	—	—	2.6
		54.7	63.1	—	—	40.2	5.2	26.7	—	14.2	3.6	—	—	10.1
9	76.0-85.5	82.5	65.9	—	—	33.8	12.2	34.7	3.1	8.8	1.9	—	—	5.7
18	161.5-171.0	166.9	67.8	—	—	38.7	13.2	34.4	—	11.5	2.1	—	—	—
26	237.5-247.0	238.5	67.6	—	—	40.8	9.8	33.5	—	9.8	2.3	—	—	3.7
33	418.0-427.5	420.4	59.9	—	—	39.9	—	22.3	—	25.0	6.0	5.3	1.6	—
38	522.5-532.0	523.6	56.3	—	—	33.5	4.8	21.5	—	16.0	5.7	10.2	4.2	4.0
<2μ Fraction														
6	47.5-57.0	54.5	58.6	—	—	24.5	3.6	11.9	—	42.1	6.4	11.4	—	—
		54.7	69.2	—	—	26.9	4.1	14.1	—	30.3	4.7	13.2	—	6.6
9	76.0-85.5	82.5	67.1	—	—	20.0	6.5	14.0	6.1	18.4	4.0	27.5	—	3.4
18	161.5-171.0	166.9	71.1	—	—	22.7	6.4	12.3	—	22.5	4.3	30.5	1.3	—
26	237.5-247.0	238.5	69.4	—	—	26.1	5.7	12.4	—	22.3	4.0	26.9	—	2.5
33	418.0-427.5	420.4	56.5	—	—	22.9	2.3	10.2	—	30.3	5.4	28.8	—	—
38	522.5-532.0	523.6	56.9	—	—	22.5	3.6	11.8	—	15.8	4.4	41.8	—	—

TABLE 15
Results of X-Ray Diffraction Analysis From Hole 301

Core	Cored Interval Below Sea Floor (m)	Sample Depth Sea Below Floor (m)	Amor.	Calc.	Dolo.	Quar.	K-Fe.	Plag.	Kaol.	Mica	Chlo.	Mont.	Pyri.	Amph.
Bulk Samples														
2	117.0-126.5	120.7	61.4	2.0	—	36.0	6.0	19.7	—	24.8	3.9	1.9	5.9	—
4	155.0-164.5	157.3	61.2	—	—	33.7	4.0	21.8	1.1	27.3	4.1	6.6	1.5	—
		157.7	67.8	—	—	30.5	5.9	19.5	3.1	24.7	3.1	10.7	2.4	—
8	240.5-250.0	246.0	78.7	—	—	37.3	8.1	15.0	1.0	28.0	3.9	4.1	2.7	—
13	354.5-364.0	355.8	69.7	—	—	39.0	7.5	18.6	—	18.9	2.7	10.2	3.1	—
15	392.5-402.0	395.4	42.4	—	1.7	37.8	15.7	27.1	—	13.4	0.6	—	1.8	1.8
17	449.5-459.0	450.3	48.4	—	—	37.0	16.9	27.7	—	11.1	1.0	5.3	1.0	—
18	468.5-478.0	474.2	65.9	—	—	37.5	5.6	18.2	—	20.8	2.5	13.7	1.7	—
		474.4	67.7	—	—	29.0	5.8	20.4	—	18.8	3.8	18.5	3.6	—
2-20 μ m Fraction														
2	117.0-126.5	120.7	54.3	—	—	42.7	7.1	26.5	—	16.2	2.9	—	4.6	—
4	155.0-164.5	157.3	56.6	—	—	40.5	7.6	28.9	—	17.7	3.3	—	2.0	—
		157.7	58.2	—	—	36.8	5.7	26.2	—	23.2	3.9	—	4.2	—
8	240.5-250.0	246.0	70.7	—	—	44.1	6.7	20.2	—	21.5	2.8	—	4.6	—
13	354.5-364.0	355.8	68.5	—	—	47.4	8.0	23.7	—	14.2	2.6	—	4.2	—
15	392.5-402.0	395.4	56.8	—	—	36.0	10.1	31.7	—	14.9	0.8	—	3.7	2.8
17	449.5-459.0	450.3	54.4	—	—	34.9	8.3	29.4	—	19.4	2.5	—	5.5	—
18	468.5-478.0	474.2	65.5	—	—	43.4	6.6	23.7	—	19.1	4.7	—	2.6	—
		474.4	65.1	—	—	33.3	6.0	28.2	—	17.8	3.8	7.3	3.6	—
<2 μ m Fraction														
2	117.0-126.5	120.7	63.3	—	—	24.3	4.7	12.1	—	32.8	7.0	12.9	6.1	—
4	155.0-164.5	157.3	65.9	—	—	21.6	3.9	12.6	3.5	19.3	2.4	36.8	—	—
		157.7	68.6	—	—	22.4	4.9	12.9	5.3	24.9	2.5	25.6	1.4	—
8	240.5-250.0	246.0	79.5	—	—	24.4	5.1	11.3	2.5	38.3	5.2	11.7	1.4	—
13	354.5-364.0	355.8	78.4	—	—	26.1	4.2	12.3	3.1	25.2	3.1	22.7	3.4	—
15	392.5-402.0	395.4	66.4	—	—	15.2	3.9	9.9	5.1	30.0	4.1	27.9	3.8	—
17	449.5-459.0	450.3	62.7	—	—	16.0	3.7	9.7	3.3	27.0	4.2	34.9	1.2	—
18	468.5-478.0	474.2	69.7	—	—	24.4	3.0	12.4	3.4	25.3	2.9	27.5	1.1	—
		474.4	67.0	—	—	16.2	2.4	8.6	1.8	12.0	2.8	54.3	1.8	—

TABLE 16
Results of X-Ray Diffraction Analysis From Hole 302

Core	Cored Interval Below Sea Floor (m)	Sample Depth Below Sea Floor (m)	Amor.	Calc.	Quar.	Cris.	K-Fe.	Plag.	Kaol.	Mica	Chlo.	Mont.	Trid.	Pyri.
Bulk Samples														
2	19.0-28.5	26.3	62.8	2.9	41.2	—	—	18.8		28.7	4.0	3.2	—	1.1
3	38.0-47.5	38.7	65.7	—	32.3	—	4.6	18.6		29.2	3.9	11.4	—	—
5	76.0-85.5	82.0	82.3	—	37.6	—	4.1	17.3		28.4	4.4	6.3	—	1.9
7	114.0-123.5	120.9	79.0	—	36.4	—	3.9	17.1		29.2	4.2	9.2	—	—
10	171.0-180.5	171.6	80.4	—	31.7	—	7.2	16.0		26.7	3.0	10.5	—	4.9
15	266.0-275.5	266.9	94.4	—	33.7	—	7.2	16.4		8.0	3.3	20.1	—	11.2
17	456.0-465.5	456.1	50.6	—	19.9	32.7	3.0	7.5		13.0	1.3	17.0	1.4	4.2
2-20μm Fraction														
2	19.0-28.5	26.3	48.9	—	45.5	—	8.4	24.3		18.3	3.5	—	—	—
3	38.0-47.5	38.7	50.7	—	42.5	—	7.8	23.1		21.1	4.4	—	—	1.0
5	76.0-85.5	82.0	79.4	—	52.7	—	5.8	25.4		12.9	2.1	—	—	1.2
7	114.0-123.5	120.9	78.8	—	47.7	—	5.7	22.4		20.0	4.1	—	—	—
10	171.0-180.5	171.6	71.6	—	42.0	—	5.2	23.0		21.8	5.2	—	—	2.7
15	266.0-275.5	266.9	94.5	—	39.8	—	9.2	22.2		15.8	1.6	—	—	11.4
17	456.0-465.5	456.1	28.8	—	29.5	25.2	4.0	13.3		18.7	2.6	—	1.2	5.6
<2μm Fraction														
2	19.0-28.5	26.3	62.1	—	28.1	—	5.4	13.8	3.3	37.1	4.7	7.6	—	—
3	38.0-47.5	38.7	70.2	—	25.7	—	4.3	11.7	—	27.7	4.6	22.5	—	3.4
5	76.0-85.5	82.0	81.5	—	30.2	—	3.5	10.9	3.0	35.8	4.1	12.5	—	—
7	114.0-123.5	120.9	72.8	—	21.2	—	2.8	10.5	—	35.6	4.1	25.9	—	—
10	171.0-180.5	171.6	74.2	—	20.9	—	3.7	8.4	1.5	29.3	2.7	33.5	—	—
15	266.0-275.5	266.9	90.8	—	24.0	—	5.2	11.7	—	16.1	2.0	36.7	—	4.3
17	456.0-465.5	456.1	25.7	—	7.8	53.5	1.5	1.8	—	7.3	0.7	21.8	4.7	0.9