

GEOLOGICAL AND GEOCHEMICAL DATA FOR SEDIMENT AND PORE WATER
SAMPLES FROM THE SOHM ABYSSAL PLAIN,
NORTH WESTERN ATLANTIC OCEAN

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ABSTRACT

This report includes geological and chemical data that were compiled sediment and pore water analyses of cores collected from the Sohm Abyssal Plain, in the north western Atlantic Ocean. Sediment samples were taken from 10 cores. Sediment analyses included colour, grain size (% sand, silt and clay), water content, organic carbon, total carbon, total metals (Ca, Si, Al, Fe, Mn, Zn, Cu, Ni, Cr), weak acid leachable metals (Fe, Mn, Zn, Cu, Cr), and the reducible fraction of metals (Fe, Mn, Zn, Cu, Cr). Pore water analyses included major cations (Na, Mg, Ca, K), nutrients (silicate, nitrate, phosphate) and trace metals (Mn, Fe, Zn, Cu, Ni, Cd), and free hydrogen ion, free electrons and sulfide ion.

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INTRODUCTION

A 10 km square area of the sea floor of the southern Sohm Abyssal Plain has been surveyed for a number of geological and chemical parameters. Data were obtained from box, gravity, and piston core samples that were collected using the Bedford Institute of Oceanography scientific ship C.S.S. Hudson, (May-June 1980, Cruise 80-016). This report contains the analytical results of ship-board observations and of laboratory geochemical analyses for both sediment and pore water samples. The samples were collected at 10 locations within the study area (Fig. 1a and 1b). Other data relating to the cruise are given in Buckley (1981).

FIELD METHODS

Subsampling

A refrigerated laboratory was used for core subsampling and storage. Sections of cores were extruded in a nitrogen flushed glove box at 4°C. Core descriptions were completed prior to geochemical subsampling. Colour descriptions were referenced to the "Munsell color system" and HUE, VALUE and CHROMA were determined using Munsell soil colour charts. Portions of each subsample were taken for shipboard electrochemical analyses (pH, pE and ES). One hundred to 200 ml of wet sediment from each sampling interval (1 to 10 cm) was submitted to a N₂ pressure of 3 bars to extract pore water. Ten to 50 ml of filtered pore water was collected, depending on the water content and the volume of the sediment sample.

Total alkalinity and silica were determined immediately for the water. Nutrient subsamples were frozen and stored for autoanalyses at the Bedford Institute of Oceanography. Other aliquots of pore water subsamples were returned to our laboratory at the Institute and analysed for

dissolved transition metals and major cations by atomic absorption spectroscopy. Sediment samples were stored for later analyses of their water content, total and organic carbon, grain size classification, acid leachable metals, reducible metals and total metals.

SHIPBOARD ANALYSES

A 50 g sediment subsample was placed in a N₂ atmosphere at 4°C prior to pH and pE analyses. Sediment pH was determined using a combination pH electrode that was standardized with Palitsch buffer at pH 8.2 (Whitfield, 1969). Reproducibility of ±0.05 pH units was achieved routinely within 2 minutes. A combination platinum electrode, standardized in Zobell solution, was then used in the same sediment samples to determine redox potential as pE. Voltage was recorded over 90 seconds to account for electrode drift. Redox potential was calculated from the potential difference relative to the standard hydrogen electrode. Precision was estimated to be ±0.2 pE units.

The relative potential difference for total free sulfide ES was measured directly with a sulfide specific ion electrode coupled with a saturated KCl calomel double junction reference electrode as described in the Orion Handbook. Potential difference was recorded directly. Observed values indicated that the total free sulfide concentrations were below the detection limit ($<10^{-6}$ M S²⁻).

Total alkalinity (ALKPW) was determined on a 2 ml pore water sample. A potentiometric titration was completed for each sample with an automatic titrator that was controlled by a circuit closure system at 15 s. intervals. A microelectrode was used to measure the pore water pH during titration with 0.008 M HCl in 0.6 M NaCl. Alkalinity precision was ±0.02 meq L⁻¹ (Edmond, 1970).

The concentration of dissolved silicate (SiO_2PW) was determined immediately after pore water extraction using the colorimetric method described in Mullin and Riley (1955).

LABORATORY METHODS

Porewater analyses

Nutrient analyses included nitrate (NO_3PW) and phosphate (PO_4PW) and are reported in $\mu\text{ moles L}^{-1}$ (μM). These nutrients concentration were determined using the Technicon industrial methods no. 158-71W for nitrate and no. 155-71W for phosphate. Dissolved silicate concentrations were also determined for samples which were returned to our laboratory using the Technicon industrial method No. 186-72W. These results were used to corroborate and to supplement the previous analyses for dissolved silicate which were determined in the shipboard laboratory (Technicon Industrial Systems, Tarrytown, N.Y.).

The labile Fe, Zn, Cu, Ni and Cd concentrations in 1 ml of pore water LFEPW, ZnPW, CuPW, NiPW and CdPW, respectively) were determined by flameless atomic absorption spectroscopy following chelation (at pH 4) and solvent extraction into an organic phase (Stoffyn, personal communication, method adapted from Brooks et al. 1967). The total precision and accuracy was determined to be $\pm 15\%$ of the available metal concentration. These trace metal concentrations are reported in $\text{ppb}(\mu\text{gL}^{-1})$.

Total Fe and total Mn concentrations in pore water (FePW and MnPW) were determined by direct flameless spectrophotometry. Aqueous samples were injected directly into the atomization chamber of a Perkin-Elmer HGA500 graphite furnace. Standards were prepared in seawater containing a negligible amount of this metal compared to the concentration in the

samples. All instrumental parameters followed the manufacturers recommendations. Total Fe and Mn concentration is reported in ppb(μgL^{-1}) and the precision and accuracy was $\pm 15\%$.

The major cations (Na, Mg, Ca and K are reported as NaPW, MgPW, CaPW and KPW, respectively) were determined by flame atomic absorption spectroscopy following aqueous sample dilution. NaPW is reported in g L^{-1} and the other major cations are reported in ppm(mgL^{-1}). Precision was found to be $\pm 1\%$ (Cranston, 1974).

Sediment analyses

Sediment subsamples were stored in sealed containers and returned to our laboratory. Water content (reported as WATER in % of wet weight) was determined by weight loss of samples after drying at 60°C for 48 hours. Total carbon (TC in % of dry weight) was determined for washed, dried samples with a Leco carbon analyser. Inorganic carbon was removed by 1 M HCl treatment prior to determining the organic carbon concentration (OC in % of dry weight). The precision and accuracy was $\pm 10\%$ for both the TC and OC.

Elemental analyses (determined by flame atomic absorption spectroscopy) and nonsequential leach techniques:

(1) Total analyses (CaT, SiT, AlT, and FeT as % of dry weight, and MnT, ZnT, CuT, NiT, CrT in ppm($\text{mg}\cdot\text{Kg}^{-1}$)) after a HF- H_3BO_3 total decomposition method (Buckley and Cranston, 1971). The precision and accuracy was $\pm 10\%$ for these metals except for NiT and CrT which were $\pm 15\%$.

(2) Weak acid leachable (FeWA, MnWA, ZnWA, CuWA, CrWa) after a 4 M acetic acid leach (pH = 2.3) as described in MacIntosh et al. (1976). This leach fraction is considered to contain soluble carbonate complexes and adsorbed metals.

(3) Reducible metal after leaching with 1 M hydroxylamine hydrochloride solution in 4 M acetic acid leach as suggested by Chester and Hughes (1967) and described by MacIntosh et al. (1976). Then, the reducible metal residuals or the hydroxylamine leach residuals (FeHR, MnHR, ZnHR, CuHR, CrHR) were determined as the residual when the weak acid leachable metal concentrations were subtracted from the reducible metal concentrations. This residual fraction is considered to be metal that had precipitated when its reduced form came in contact with oxidized sediments. The above leachable metal fractions are reported in ppm. The precision and accuracy was $\pm 5\%$ for FeWA, FeHR, MnWA, ZnWA and ZnHR and was $\pm 15\%$ for CuWA, CuHR, CrWA and CrHR.

In the 10 Km square study area, 39 distinct colour zones were observed between the surface and the first apparent seismic reflector at 12 to 13 m depth. These color zones are discerned as shifts in the "HUE", and are reported here as "ZONE". Individual colour zones vary in thickness over the study area. An average thickness was computed from observations for all cores. A composite core was then conceived by accumulating the average thickness for the 39 distinct colour zones. The relative position of a sample within a color zone for a specific core was then transposed to the same relative position for the composite core. For this computation, we used the centre point of each sampling interval. The composite depth (COMP. DEPTH) was used to compare analytical observations for all cores.

Some observations for samples 122901 and 803345 to 803349 are annotated with an asterisk (*). These samples occur at the top of cores 12.1 and 15 and were elutriated with overlying water during sampling. The measured water content was comparatively high and some of the analytical results appear to be anomalous.

The logged depths for core samples are relative to the tops of the cores and are not always the correct depths relative to the sediment water interface. This discrepancy is caused by the frequent loss of the tops of piston and gravity cores during sampling. These losses are apparent when the tops of these cores are compared with the tops of box cores which are designed to preserve the material at the sediment water interface. For this reason we have determined the corrected sediment depths (CORR. DEPTH) for the top of each sampling interval. The corrections are as follows: for cores 39 and 53, the top 10 cm were lost; for core 15, the top 25 cm were lost; and for core 24, the top 150 cm were lost.

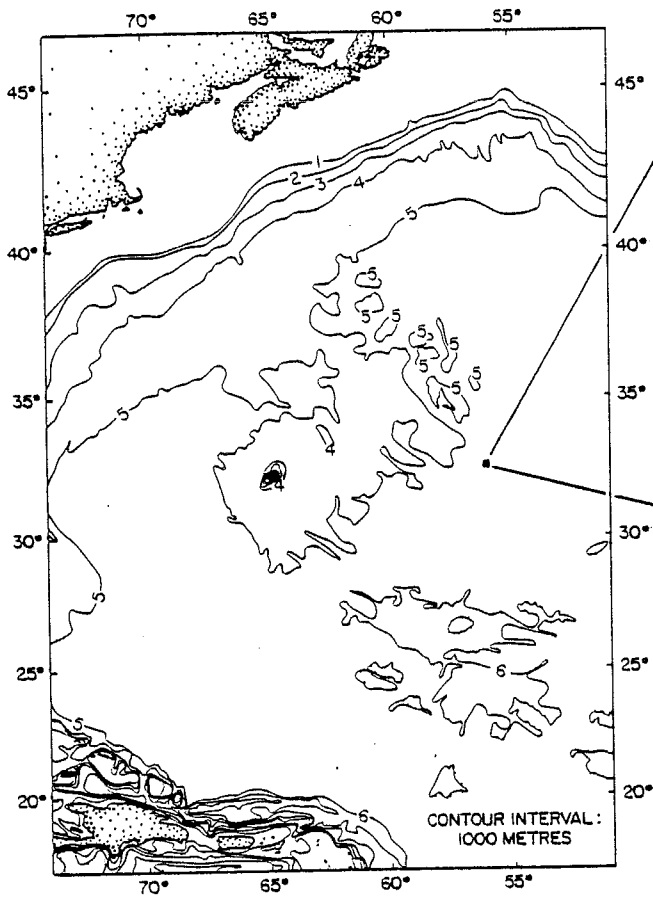


Figure 1a.
Area of seabed investigation.

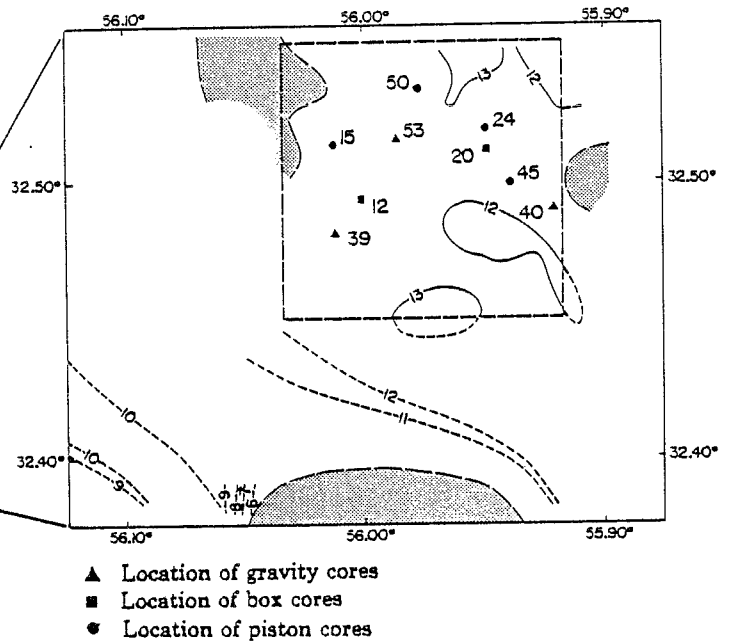


Figure 1b.
Detailed study area in Sohm Abyssal Plain. The first seismic reflector seen on the 40-in.³ gun records over the flat-lying bottom was at 9 to 13 m below the sediment surface. This reflector correlates well with the occurrence of a marked sandy interval in the cores. Shaded areas show the position of abyssal hills

CORE ¹	LATITUDE	LONGITUDE	WATER ² DEPTH m	YEAR	CRUISE
12.0	32° 29.3'	55° 59.9'	5556	1980	16
12.1	32° 29.7'	56° 00.5'	5556	1980	16
15.0	32° 30.9'	55° 59.4'	5556	1980	16
20.0	32° 30.5'	55° 54.3'	5556	1980	16
24.0	32° 31.3'	55° 57.0'	5557	1980	16
39.0	32° 28.5'	56° 1.2'	5556	1980	16
40.0	32° 28.2'	55° 56.2'	5556	1980	16
45.0	32° 29.8'	55° 56.2'	5556	1980	16
50.0	32° 32.0'	56° 58.7'	5560	1980	16
53.0	32° 30.8'	55° 59.3'	5557	1980	16

¹ Reference core samples in archive are prefixed by the cruise identification, "80-016".

² This is the corrected water depth according to Matthews Tables (Matthews, 1939).

CORE	LOGGED DEPTH cm		SAND %	SILT %	CLAY %	WATER %	OC %	TC %	CaT %	LAB. ID.
12.0	.1	.1	.1	4.9	95.0	64.6	.58	1.70	3.21	803337
12.0	.1	2.0	.1	4.9	95.0	55.6	.51	1.84	3.87	803338
12.0	2.0	6.0	.1	4.9	95.0	56.4	.47	2.12	4.48	803339
12.0	6.0	15.0	.1	4.9	95.0	53.4	.46	2.13	4.48	803340
12.0	15.0	24.0	.1	4.9	95.0	53.5	.44	2.21	4.45	803341
12.0	24.0	33.0	.1	4.9	95.0	48.6	.44	2.27	4.71	803342
12.0	33.0	39.0	.1	4.9	95.0	43.9	.34	2.32	4.86	803343
12.0	39.0	45.0	.1	4.9	95.0	50.7	.39	2.45	5.09	803344
12.1	.1	.3	.1	4.9	95.0	84.8	***	***	2.69	*122901
12.1	.1	1.0	.1	4.9	95.0	55.3	***	***	3.45	122902
12.1	1.0	2.0	.1	4.9	95.0	58.7	***	***	3.66	122903
12.1	2.0	3.0	.1	4.9	95.0	56.5	***	***	3.52	122904
12.1	3.0	4.0	.1	4.9	95.0	53.7	***	***	3.66	122905
12.1	4.0	5.0	.1	4.9	95.0	50.0	***	***	3.74	122906
12.1	5.0	6.0	.1	4.9	95.0	48.1	***	***	4.81	122907
12.1	6.0	7.0	.1	4.9	95.0	48.0	***	***	3.95	122908
12.1	7.0	8.0	.1	4.9	95.0	47.8	***	***	4.11	122909
12.1	8.0	9.0	.1	4.9	95.0	69.2	***	***	4.08	122910
12.1	9.0	10.0	.1	4.9	95.0	51.1	***	***	4.39	122911
12.1	11.0	13.0	.1	4.9	95.0	51.4	***	***	4.02	122912
12.1	13.0	15.0	.1	4.9	95.0	49.8	***	***	4.07	122913
12.1	15.0	17.0	.1	4.9	95.0	33.8	***	***	4.42	122914
12.1	17.0	19.0	.1	4.9	95.0	49.1	***	***	4.23	122915
12.1	19.0	21.0	.1	4.9	95.0	49.2	***	***	4.69	122916
12.1	21.0	23.0	.1	4.9	95.0	49.3	***	***	4.00	122917
12.1	23.0	25.0	.1	4.9	95.0	47.9	***	***	3.58	122918
12.1	25.0	30.0	.1	4.9	95.0	50.5	***	***	4.08	122919
12.1	30.0	35.0	.1	4.9	95.0	36.9	***	***	5.20	122920
12.1	35.0	40.0	.1	4.9	95.0	44.9	***	***	5.42	122921
12.1	40.0	45.0	.1	4.9	95.0	46.3	***	***	4.80	122922
12.1	48.0	50.0	.1	4.9	95.0	26.6	***	***	5.83	122923
15.0	.1	3.0	***	***	***	87.7	.46	1.78	3.90	*803345
15.0	3.0	10.0	***	***	***	85.5	.47	1.70	4.72	*803346
15.0	10.0	15.0	***	***	***	85.5	.48	1.84	4.45	*803347
15.0	28.0	30.0	***	***	***	82.7	.44	1.87	4.65	*803348
15.0	30.0	34.0	***	***	***	45.6	.34	1.70	4.23	*803349
15.0	34.0	40.0	.1	4.9	95.0	38.7	.37	1.96	4.58	803350
15.0	40.0	46.0	.1	4.9	95.0	37.4	.31	1.90	4.58	803351
15.0	72.0	78.0	.1	4.9	95.0	44.9	.38	3.42	9.96	803352
15.0	102.0	108.0	.1	4.9	95.0	34.2	.21	3.48	9.43	803353
15.0	119.0	131.0	.1	4.9	95.0	42.6	.34	1.02	2.83	803354
15.0	256.0	269.0	.1	4.9	95.0	42.1	.54	.88	1.17	803355
15.0	413.0	425.0	.1	4.9	95.0	44.7	.42	.93	1.87	803356
15.0	475.0	478.0	***	***	***	***	***	***	5.77	18201
15.0	540.0	550.0	.1	4.9	95.0	47.0	.61	1.33	2.29	803357
15.0	625.0	627.0	***	***	***	***	***	***	5.11	18202
15.0	680.0	681.0	***	***	***	***	***	***	1.82	18203
15.0	687.0	688.0	***	***	***	***	***	***	3.37	18204
15.0	722.0	732.0	.1	4.9	95.0	46.4	.67	1.29	2.12	803358
15.0	867.0	878.0	.1	4.9	95.0	39.3	.53	1.78	3.94	803359

CORE	LOGGED DEPTH cm		SAND %	SILT %	CLAY %	WATER %	OC %	TC %	CaT %	LAB. ID.
39.0	90.0	95.0	.1	4.9	95.0	39.4	.38	1.85	4.83	802103
39.0	95.0	100.0	***	***	***	***	***	***	***	802104
39.0	100.0	105.0	.1	4.9	95.0	48.4	.41	1.60	3.95	802105
39.0	105.0	110.0	***	***	***	***	***	***	***	802106
39.0	110.0	115.0	.1	4.9	95.0	48.4	.49	1.87	4.50	802107
39.0	115.0	120.0	***	***	***	***	***	***	***	802109
39.0	120.0	125.0	.1	4.9	95.0	50.4	.50	1.84	4.14	802110
39.0	125.0	132.0	***	***	***	***	***	***	***	802111
39.0	135.0	140.0	.1	4.9	95.0	37.8	.50	1.66	3.66	802112
39.0	140.0	145.0	***	***	***	43.2	***	***	***	802113
39.0	145.0	150.0	.1	4.9	95.0	44.3	.57	1.60	3.20	802114
39.0	150.0	155.0	***	***	***	46.0	***	***	***	802115
39.0	155.0	160.0	.1	4.9	95.0	44.5	.29	.72	2.09	802116
39.0	160.0	165.0	***	***	***	***	***	***	***	802117
39.0	167.0	172.0	.1	4.9	95.0	49.6	.48	3.10	8.61	802118
39.0	172.0	177.0	***	***	***	***	***	***	***	802119
39.0	177.0	182.0	.1	4.9	95.0	51.1	.31	2.88	8.78	802120
39.0	182.0	187.0	***	***	***	***	***	***	***	802121
39.0	187.0	192.0	.1	4.9	95.0	43.2	.22	2.91	8.88	802122
39.0	192.0	197.0	***	***	***	***	***	***	***	802123
39.0	197.0	202.0	.1	4.9	95.0	46.1	.21	2.90	8.88	802124
39.0	205.0	214.0	.1	4.9	95.0	43.0	.40	1.06	2.13	802125
39.0	214.0	223.0	.1	4.9	95.0	45.3	.45	1.39	3.03	802126
39.0	223.0	232.0	.1	4.9	95.0	47.5	.44	1.46	3.48	802127
39.0	232.0	241.0	.1	4.9	95.0	44.6	.31	1.08	2.50	802128
39.0	241.0	250.0	.1	4.9	95.0	42.3	.42	1.58	3.74	802129
39.0	250.0	259.0	.1	4.9	95.0	48.1	.45	2.05	4.83	802130
39.0	259.0	268.0	.1	4.9	95.0	49.1	.51	2.26	5.67	802131
40.0	.1	5.0	.1	4.9	95.0	56.5	.36	2.17	5.08	802132
40.0	5.0	10.0	.1	4.9	95.0	47.0	.26	2.32	6.12	802133
40.0	10.0	15.0	.1	4.9	95.0	49.2	.32	1.88	5.20	802134
40.0	15.0	20.0	.1	4.9	95.0	47.8	.33	1.37	3.60	802135
40.0	20.0	25.0	.1	4.9	95.0	43.4	.27	1.60	4.13	802136
40.0	25.0	30.0	.1	4.9	95.0	51.9	.30	2.36	6.35	802137
40.0	30.0	35.0	.1	4.9	95.0	51.4	.32	2.03	5.62	802138
40.0	35.0	40.0	.1	4.9	95.0	44.7	.30	2.61	7.53	802139
40.0	40.0	45.0	.1	4.9	95.0	47.8	.28	1.72	4.30	802140
40.0	45.0	52.0	.1	4.9	95.0	43.4	.29	2.70	7.70	802141
45.0	385.0	400.0	.1	4.9	95.0	51.6	.56	.88	1.12	802143
45.0	400.0	412.0	.1	4.9	95.0	46.4	.67	1.38	1.77	802144
45.0	412.0	425.0	.1	4.9	95.0	49.9	.64	***	3.54	802145
45.0	425.0	440.0	.1	4.9	95.0	42.8	.45	2.03	4.90	802146
45.0	440.0	450.0	.1	4.9	95.0	46.1	.45	1.43	3.00	802147
45.0	450.0	460.0	.1	4.9	95.0	51.5	.41	1.76	4.21	802148
45.0	460.0	480.0	.1	4.9	95.0	48.4	.80	1.33	1.62	802149
45.0	485.0	500.0	.1	4.9	95.0	45.2	.70	1.32	1.77	802150
45.0	500.0	515.0	.1	4.9	95.0	44.4	.43	1.23	2.78	802151
45.0	515.0	525.0	.1	4.9	95.0	46.9	.47	1.48	3.37	802152
45.0	525.0	533.0	.1	4.9	95.0	43.1	.47	1.58	3.43	802153
45.0	740.0	742.0	***	***	***	***	***	***	4.48	18215

CORE	LOGGED DEPTH cm	SAND %	SILT %	CLAY %	WATER %	OC %	TC %	CaT %	LAB. ID.	
45.0	745.0	748.0	***	***	***	***	***	6.61	18214	
45.0	754.0	756.0	***	***	***	***	***	1.66	18216	
45.0	907.0	909.0	***	***	***	***	***	7.51	18217	
45.0	924.0	926.0	***	***	***	***	***	3.61	18218	
45.0	1148.0	1160.0	1.2	28.3	70.3	29.9	.44	***	2.15	802155
45.0	1160.0	1172.0	4.3	32.7	62.8	40.9	.32	1.37	2.92	802156
45.0	1172.0	1184.0	2.8	22.4	74.7	41.6	.40	1.73	4.23	802157
45.0	1184.0	1196.0	9.6	28.4	61.9	35.9	.37	2.06	4.89	802158
45.0	1196.0	1202.0	***	***	***	***	***	***	***	802165
45.0	1202.0	1212.0	30.5	44.8	24.5	21.1	.21	1.42	3.62	802159
45.0	1212.0	1223.0	31.9	43.7	24.3	18.6	.18	1.42	3.20	802160
45.0	1223.0	1234.0	32.3	38.0	29.5	17.8	.20	1.42	3.54	802161
45.0	1234.0	1245.0	36.3	33.6	30.0	18.4	.19	1.40	3.28	802162
45.0	1245.0	1256.0	32.5	39.9	27.5	18.7	.20	1.43	4.16	802163
45.0	1256.0	1271.0	35.6	38.2	26.0	16.8	.21	1.43	3.83	802164
50.0	128.0	130.0	***	***	***	***	***	***	3.35	98101
50.0	132.0	134.0	***	***	***	***	***	***	9.42	98102
50.0	134.0	136.0	***	***	***	***	***	***	7.67	98103
50.0	136.0	138.0	***	***	***	***	***	***	6.55	98104
50.0	138.0	140.0	***	***	***	***	***	***	6.64	98105
50.0	140.0	142.0	***	***	***	***	***	***	6.42	98106
50.0	142.0	144.0	***	***	***	***	***	***	6.24	98107
50.0	144.0	146.0	***	***	***	***	***	***	6.28	98108
50.0	146.0	148.0	***	***	***	***	***	***	6.46	98109
50.0	148.0	150.0	***	***	***	***	***	***	6.42	98110
50.0	150.0	152.0	***	***	***	***	***	***	6.79	98111
50.0	152.0	154.0	***	***	***	***	***	***	7.02	98112
50.0	156.0	158.0	***	***	***	***	***	***	9.88	98113
50.0	158.0	160.0	***	***	***	***	***	***	9.51	98114
50.0	160.0	162.0	***	***	***	***	***	***	10.40	98115
50.0	164.0	166.0	***	***	***	***	***	***	9.71	98116
50.0	166.0	167.5	***	***	***	***	***	***	8.98	98117
50.0	170.0	172.0	***	***	***	***	***	***	4.24	98118
50.0	310.0	312.0	***	***	***	***	***	***	2.74	98119
50.0	315.0	317.0	***	***	***	***	***	***	2.64	98120
50.0	320.0	322.0	***	***	***	***	***	***	3.08	98121
50.0	325.0	327.0	***	***	***	***	***	***	3.05	98122
50.0	330.0	332.0	***	***	***	***	***	***	3.10	98123
50.0	460.0	462.0	***	***	***	***	***	***	1.82	98146
50.0	465.0	467.0	***	***	***	***	***	***	2.24	98147
50.0	470.0	472.0	***	***	***	***	***	***	2.28	98148
50.0	473.0	475.0	***	***	***	***	***	***	2.35	98149
50.0	530.0	532.0	***	***	***	***	***	***	1.71	98150
50.0	535.0	537.0	***	***	***	***	***	***	1.87	98151
50.0	545.0	547.0	***	***	***	***	***	***	2.00	98152
50.0	550.0	552.0	***	***	***	***	***	***	1.94	98153
50.0	555.0	557.0	***	***	***	***	***	***	2.18	98154
50.0	718.0	720.0	***	***	***	***	***	***	.98	98155
50.0	723.0	725.0	***	***	***	***	***	***	1.70	98156
50.0	808.0	809.0	***	***	***	***	***	***	4.84	18220

CORE	LOGGED DEPTH cm	DEPTH	SAND %	SILT %	CLAY %	WATER %	OC %	TC %	CaT %	LAB. ID.
50.0	813.0	815.0	***	***	***	***	***	***	7.03	18219
50.0	820.0	822.0	***	***	***	***	***	***	1.65	98124
50.0	825.0	827.0	***	***	***	***	***	***	1.66	18221
50.0	830.0	832.0	***	***	***	***	***	***	1.67	98125
50.0	840.0	842.0	***	***	***	***	***	***	2.27	98126
50.0	845.0	847.0	***	***	***	***	***	***	2.14	98127
50.0	850.0	852.0	***	***	***	***	***	***	1.84	98128
50.0	935.0	937.0	***	***	***	***	***	***	3.06	98129
50.0	940.0	942.0	***	***	***	***	***	***	2.81	98130
50.0	945.0	947.0	***	***	***	***	***	***	3.37	98131
50.0	955.0	957.0	***	***	***	***	***	***	3.04	98132
50.0	965.0	967.0	***	***	***	***	***	***	3.44	98133
50.0	1045.0	1047.0	***	***	***	***	***	***	1.55	98157
50.0	1050.0	1052.0	***	***	***	***	***	***	2.73	98158
50.0	1055.0	1057.0	***	***	***	***	***	***	3.35	98159
50.0	1060.0	1062.0	***	***	***	***	***	***	3.67	98160
50.0	1065.0	1067.0	***	***	***	***	***	***	3.74	98161
50.0	1081.0	1083.0	***	***	***	***	***	***	3.89	98134
50.0	1086.0	1088.0	***	***	***	***	***	***	1.23	98135
50.0	1088.0	1090.0	***	***	***	***	***	***	1.19	98136
50.0	1090.0	1092.0	***	***	***	***	***	***	1.05	98137
50.0	1092.0	1094.0	***	***	***	***	***	***	.80	98138
50.0	1094.0	1096.0	***	***	***	***	***	***	1.10	98139
50.0	1096.0	1098.0	***	***	***	***	***	***	1.26	98140
50.0	1101.0	1103.0	***	***	***	***	***	***	2.55	98141
50.0	1103.0	1105.0	***	***	***	***	***	***	2.69	98142
50.0	1108.0	1110.0	***	***	***	***	***	***	4.29	98143
50.0	1110.0	1112.0	***	***	***	***	***	***	4.21	98144
50.0	1112.0	1114.0	***	***	***	***	***	***	4.24	98145
53.0	41.0	48.0	.1	4.9	95.0	48.7	.38	2.12	4.94	802166
53.0	57.0	70.0	.1	4.9	95.0	48.4	.32	1.87	4.83	802167
53.0	85.0	100.0	.1	4.9	95.0	47.5	.31	1.78	4.22	802168
53.0	110.0	125.0	.1	4.9	95.0	49.2	.32	2.12	5.28	802170
53.0	133.0	144.0	.1	4.9	95.0	46.7	.31	1.56	3.86	802171
53.0	153.0	167.0	.1	4.9	95.0	30.6	.22	3.63	10.60	802172
53.0	173.0	185.0	.1	4.9	95.0	50.7	.45	1.14	2.11	802173
53.0	187.0	200.0	.1	4.9	95.0	53.6	.64	1.86	3.36	802175
53.0	215.0	227.0	.1	4.9	95.0	33.9	.36	1.71	3.69	802176
53.0	254.0	265.0	.1	4.9	95.0	35.2	.41	1.72	3.40	802177
53.0	275.0	286.0	.1	4.9	95.0	47.4	.46	1.36	2.70	802178
53.0	287.0	298.0	.1	4.9	95.0	40.3	.22	1.55	3.82	802179
53.0	305.0	318.0	.1	4.9	95.0	49.4	.38	1.52	3.62	802180
53.0	323.0	328.0	.1	4.9	95.0	46.4	.43	.90	1.64	802181
53.0	335.0	349.0	.1	4.9	95.0	38.5	.51	.78	1.04	802182
53.0	356.0	374.0	.1	4.9	95.0	46.1	.52	2.08	4.94	802183
53.0	374.0	393.0	.1	4.9	95.0	42.3	.39	1.41	3.31	802184
53.0	393.0	416.0	.1	4.9	95.0	47.5	.79	1.30	1.62	802185
53.0	416.0	423.0	.1	4.9	95.0	45.1	.40	1.30	2.92	802186

CORE	LOGGED DEPTH cm	SiT %	AlT %	FeT %	MnT ppm	ZnT ppm	CuT ppm	NiT ppm	CrT ppm	ID	
12.0	.1	.1	21.8	9.1	5.1	744.	124.	25.	62.	104.	803337
12.0	.1	2.0	22.5	9.2	5.4	780.	114.	25.	52.	96.	803338
12.0	2.0	6.0	23.3	8.3	4.5	671.	102.	26.	37.	74.	803339
12.0	6.0	15.0	23.8	8.2	4.5	671.	100.	23.	32.	83.	803340
12.0	15.0	24.0	24.7	8.1	4.5	683.	101.	22.	42.	83.	803341
12.0	24.0	33.0	24.3	8.0	4.4	707.	98.	23.	32.	83.	803342
12.0	33.0	39.0	22.8	7.2	3.8	939.	95.	26.	27.	74.	803343
12.0	39.0	45.0	23.3	7.0	3.7	890.	92.	26.	22.	72.	803344
12.1	.1	.3	24.1	8.4	5.0	698.	80.	24.	39.	81.	*122901
12.1	.1	1.0	24.4	8.0	4.8	697.	96.	28.	53.	96.	122902
12.1	1.0	2.0	24.4	8.1	4.9	682.	80.	32.	56.	92.	122903
12.1	2.0	3.0	24.9	7.8	4.7	697.	86.	32.	42.	102.	122904
12.1	3.0	4.0	25.7	8.2	4.6	697.	84.	28.	40.	87.	122905
12.1	4.0	5.0	25.7	7.9	4.6	712.	80.	28.	39.	85.	122906
12.1	5.0	6.0	26.1	8.1	4.6	712.	90.	28.	41.	91.	122907
12.1	6.0	7.0	22.4	7.4	4.3	667.	92.	32.	41.	93.	122908
12.1	7.0	8.0	24.1	8.0	4.6	667.	96.	24.	46.	95.	122909
12.1	8.0	9.0	22.0	6.9	4.3	636.	100.	20.	37.	89.	122910
12.1	9.0	10.0	23.9	7.7	4.6	712.	100.	24.	51.	90.	122911
12.1	11.0	13.0	23.9	7.3	4.5	667.	100.	24.	46.	91.	122912
12.1	13.0	15.0	24.6	7.0	4.5	712.	86.	24.	46.	92.	122913
12.1	15.0	17.0	25.9	7.1	4.4	727.	86.	28.	36.	98.	122914
12.1	17.0	19.0	25.4	6.9	4.4	727.	84.	24.	48.	83.	122915
12.1	19.0	21.0	25.1	6.9	4.3	697.	84.	24.	41.	72.	122916
12.1	21.0	23.0	24.7	7.0	4.4	712.	94.	28.	44.	82.	122917
12.1	23.0	25.0	19.0	5.3	3.3	652.	90.	24.	42.	83.	122918
12.1	25.0	30.0	24.1	7.4	4.6	1240.	102.	36.	44.	84.	122919
12.1	30.0	35.0	25.6	6.7	4.0	1010.	84.	32.	34.	61.	122920
12.1	35.0	40.0	24.6	6.7	4.0	682.	84.	24.	31.	62.	122921
12.1	40.0	45.0	24.6	5.9	3.5	606.	76.	24.	32.	61.	122922
12.1	48.0	50.0	25.9	6.1	3.4	591.	61.	24.	28.	57.	122923
15.0	.1	3.0	24.1	7.6	4.2	707.	182.	35.	22.	61.	*803345
15.0	3.0	10.0	24.1	7.6	4.2	719.	183.	31.	27.	61.	*803346
15.0	10.0	15.0	21.7	7.3	3.9	683.	196.	45.	17.	53.	*803347
15.0	28.0	30.0	21.8	7.7	4.6	707.	184.	43.	27.	83.	*803348
15.0	30.0	34.0	20.8	8.2	4.6	805.	109.	29.	52.	91.	*803349
15.0	34.0	40.0	22.2	7.5	3.8	720.	88.	29.	47.	79.	803350
15.0	40.0	46.0	21.8	7.5	4.0	732.	90.	27.	52.	79.	803351
15.0	72.0	78.0	18.0	6.6	4.1	622.	96.	70.	42.	79.	803352
15.0	102.0	108.0	20.1	6.0	3.8	598.	77.	33.	37.	70.	803353
15.0	119.0	131.0	24.9	10.1	5.9	585.	117.	26.	73.	108.	803354
15.0	256.0	269.0	26.4	9.3	5.1	512.	109.	26.	32.	104.	803355
15.0	413.0	425.0	24.7	9.8	5.4	585.	115.	27.	73.	116.	803356
15.0	475.0	478.0	26.0	5.8	3.2	649.	61.	25.	47.	88.	18201
15.0	540.0	550.0	24.2	9.5	5.6	683.	116.	25.	75.	116.	803357
15.0	625.0	627.0	23.8	7.5	4.7	626.	91.	26.	53.	95.	18202
15.0	680.0	681.0	25.1	7.6	5.5	559.	90.	25.	52.	100.	18203
15.0	687.0	688.0	23.1	8.7	5.8	720.	114.	24.	54.	104.	18204
15.0	722.0	732.0	25.1	9.0	5.8	659.	111.	21.	73.	108.	803358
15.0	867.0	878.0	24.8	7.9	4.4	732.	97.	21.	30.	91.	803359

CORE	LOGGED DEPTH cm	DEPTH	SiT %	AlT %	FeT %	MnT ppm	ZnT ppm	CuT ppm	NiT ppm	CrT ppm	LAB. ID.
39.0	90.0	95.0	25.5	7.2	3.8	683.	90.	22.	62.	90.	802103
39.0	95.0	100.0	***	***	***	***	***	***	***	***	802104
39.0	100.0	105.0	23.1	9.1	5.2	671.	111.	15.	87.	108.	802105
39.0	105.0	110.0	***	***	***	***	***	***	***	***	802106
39.0	110.0	115.0	23.2	9.0	4.7	732.	109.	22.	102.	107.	802107
39.0	115.0	120.0	***	***	***	***	***	***	***	***	802109
39.0	120.0	125.0	21.4	8.2	4.7	720.	108.	26.	720.	111.	802110
39.0	125.0	132.0	***	***	***	***	***	***	***	***	802111
39.0	135.0	140.0	26.3	8.6	4.4	707.	97.	19.	62.	75.	802112
39.0	140.0	145.0	***	***	***	***	***	***	***	***	802113
39.0	145.0	150.0	25.9	9.5	4.8	707.	105.	22.	82.	95.	802114
39.0	150.0	155.0	***	***	***	***	***	***	***	***	802115
39.0	155.0	160.0	25.5	9.6	5.2	573.	106.	16.	82.	107.	802116
39.0	160.0	165.0	***	***	***	***	***	***	***	***	802117
39.0	167.0	172.0	20.6	7.0	4.8	707.	100.	34.	62.	90.	802118
39.0	172.0	177.0	***	***	***	***	***	***	***	***	802119
39.0	177.0	182.0	22.2	7.0	4.9	659.	92.	17.	57.	90.	802120
39.0	182.0	187.0	***	***	***	***	***	***	***	***	802121
39.0	187.0	192.0	20.5	6.5	4.6	646.	93.	31.	62.	95.	802122
39.0	192.0	197.0	***	***	***	***	***	***	***	***	802123
39.0	197.0	202.0	20.4	6.7	4.6	634.	95.	33.	67.	80.	802124
39.0	205.0	214.0	23.9	8.9	5.3	665.	114.	19.	96.	117.	802125
39.0	214.0	223.0	23.8	10.0	5.2	768.	113.	23.	81.	107.	802126
39.0	223.0	232.0	25.9	10.2	5.4	841.	104.	23.	84.	100.	802127
39.0	232.0	241.0	23.9	9.5	5.0	659.	112.	32.	76.	100.	802128
39.0	241.0	250.0	24.4	9.3	4.9	646.	114.	35.	90.	107.	802129
39.0	250.0	259.0	23.7	8.1	5.0	634.	106.	32.	67.	100.	802130
39.0	259.0	268.0	23.9	8.0	4.6	695.	100.	25.	57.	91.	802131
40.0	.1	5.0	22.9	7.5	4.4	1460.	101.	28.	67.	86.	802132
40.0	5.0	10.0	26.6	6.2	3.3	1230.	62.	22.	30.	63.	802133
40.0	10.0	15.0	24.4	9.2	5.4	866.	101.	25.	67.	91.	802134
40.0	15.0	20.0	24.5	9.6	5.5	775.	113.	28.	64.	115.	802135
40.0	20.0	25.0	29.6	8.2	4.5	1340.	87.	23.	57.	104.	802136
40.0	25.0	30.0	25.1	7.4	4.4	768.	94.	32.	62.	95.	802137
40.0	30.0	35.0	23.8	8.6	5.3	695.	107.	35.	67.	114.	802138
40.0	35.0	40.0	22.2	8.2	4.7	707.	106.	32.	76.	104.	802139
40.0	40.0	45.0	24.6	9.6	5.3	744.	113.	40.	86.	104.	802140
40.0	45.0	52.0	20.8	7.3	4.7	671.	110.	38.	71.	95.	802141
45.0	385.0	400.0	25.1	9.2	5.5	537.	114.	32.	76.	114.	802143
45.0	400.0	412.0	26.0	8.4	4.5	622.	101.	28.	62.	91.	802144
45.0	412.0	425.0	24.0	8.3	4.9	646.	109.	35.	41.	107.	802145
45.0	425.0	440.0	25.1	7.5	4.4	683.	96.	28.	57.	87.	802146
45.0	440.0	450.0	23.8	9.6	5.6	707.	107.	28.	77.	96.	802147
45.0	450.0	460.0	25.3	8.0	4.2	780.	95.	22.	62.	83.	802148
45.0	460.0	480.0	24.7	9.9	5.6	720.	115.	25.	87.	115.	802149
45.0	485.0	500.0	25.1	9.3	5.8	671.	104.	28.	72.	115.	802150
45.0	500.0	515.0	23.0	9.3	5.8	720.	115.	20.	62.	111.	802151
45.0	515.0	525.0	23.4	9.4	5.6	780.	112.	25.	77.	104.	802152
45.0	525.0	533.0	23.3	9.5	5.6	793.	109.	22.	62.	100.	802153
45.0	740.0	742.0	23.1	8.6	5.4	691.	99.	25.	53.	107.	18215

CORE	LOGGED DEPTH cm	DEPTH	SiT %	AlT %	FeT %	MnT ppm	ZnT ppm	CuT ppm	NiT ppm	CrT ppm	LAB. ID.
45.0	745.0	748.0	26.2	5.6	3.5	626.	57.	16.	36.	93.	18214
45.0	754.0	756.0	23.5	9.7	6.2	649.	125.	24.	53.	113.	18216
45.0	907.0	909.0	27.5	5.8	3.2	768.	53.	26.	53.	85.	18217
45.0	924.0	926.0	23.1	8.5	5.7	816.	109.	30.	52.	95.	18218
45.0	1148.0	1160.0	26.3	8.0	4.9	622.	94.	18.	46.	83.	802155
45.0	1160.0	1172.0	28.5	7.0	3.4	549.	67.	17.	35.	57.	802156
45.0	1172.0	1184.0	25.5	7.8	3.9	689.	91.	30.	55.	74.	802157
45.0	1184.0	1196.0	24.6	7.7	4.3	720.	88.	28.	57.	74.	802158
45.0	1196.0	1202.0	***	***	***	***	***	***	***	***	802165
45.0	1202.0	1212.0	32.2	5.5	2.2	500.	42.	14.	30.	40.	802159
45.0	1212.0	1223.0	35.9	5.6	2.3	549.	38.	14.	35.	31.	802160
45.0	1223.0	1234.0	32.1	5.3	2.1	474.	43.	14.	24.	40.	802161
45.0	1234.0	1245.0	33.9	5.6	2.2	474.	38.	14.	24.	44.	802162
45.0	1245.0	1256.0	34.8	6.1	2.3	573.	38.	12.	19.	48.	802163
45.0	1256.0	1271.0	33.1	5.8	2.0	512.	39.	11.	30.	31.	802164
50.0	128.0	130.0	22.6	8.2	5.7	652.	98.	16.	111.	***	98101
50.0	132.0	134.0	17.2	5.7	4.7	652.	83.	43.	74.	***	98102
50.0	134.0	136.0	17.5	5.9	5.0	668.	91.	9.	87.	***	98103
50.0	136.0	138.0	17.3	5.8	5.8	652.	99.	4.	87.	***	98104
50.0	138.0	140.0	19.0	6.1	5.6	652.	109.	4.	91.	***	98105
50.0	140.0	142.0	17.5	5.9	5.6	717.	95.	2.	87.	***	98106
50.0	142.0	144.0	19.0	6.3	6.0	701.	91.	2.	87.	***	98107
50.0	144.0	146.0	17.8	6.0	5.6	668.	90.	4.	101.	***	98108
50.0	146.0	148.0	17.8	5.8	5.3	635.	100.	27.	87.	***	98109
50.0	148.0	150.0	19.0	5.7	4.9	652.	94.	26.	74.	***	98110
50.0	150.0	152.0	19.0	5.9	5.5	652.	92.	27.	96.	***	98111
50.0	152.0	154.0	19.4	5.6	5.0	684.	88.	19.	83.	***	98112
50.0	156.0	158.0	17.6	4.0	2.4	406.	31.	29.	50.	***	98113
50.0	158.0	160.0	19.7	4.3	2.4	379.	31.	19.	50.	***	98114
50.0	160.0	162.0	21.0	4.7	2.5	406.	36.	18.	50.	***	98115
50.0	164.0	166.0	20.5	5.7	4.3	619.	66.	32.	76.	***	98116
50.0	166.0	167.5	21.5	6.1	4.9	701.	87.	57.	52.	***	98117
50.0	170.0	172.0	22.2	8.3	7.1	592.	103.	18.	75.	***	98118
50.0	310.0	312.0	24.0	9.3	6.7	701.	115.	20.	87.	***	98119
50.0	315.0	317.0	22.9	8.9	6.7	728.	111.	27.	73.	***	98120
50.0	320.0	322.0	23.3	8.9	6.5	736.	107.	30.	67.	***	98121
50.0	325.0	327.0	22.1	8.3	6.1	598.	109.	29.	67.	***	98122
50.0	330.0	332.0	23.7	8.4	6.1	652.	103.	27.	70.	***	98123
50.0	460.0	462.0	24.3	9.1	6.5	470.	111.	29.	66.	***	98146
50.0	465.0	467.0	23.8	9.0	6.3	534.	107.	30.	66.	***	98147
50.0	470.0	472.0	27.1	7.7	5.0	491.	97.	29.	58.	***	98148
50.0	473.0	475.0	27.1	7.9	5.0	427.	93.	29.	55.	***	98149
50.0	530.0	532.0	24.8	9.4	7.1	500.	118.	30.	75.	***	98150
50.0	535.0	537.0	24.6	9.8	7.4	513.	113.	28.	69.	***	98151
50.0	545.0	547.0	25.2	8.7	6.4	534.	100.	23.	69.	***	98152
50.0	550.0	552.0	26.6	8.6	6.3	513.	99.	29.	75.	***	98153
50.0	555.0	557.0	26.9	8.5	5.6	513.	98.	29.	75.	***	98154
50.0	718.0	720.0	25.3	8.9	7.3	342.	100.	20.	75.	***	98155
50.0	723.0	725.0	26.5	9.1	5.7	449.	88.	27.	76.	***	98156
50.0	808.0	809.0	23.4	8.4	5.7	715.	104.	25.	55.	100.	18220

CORE	LOGGED DEPTH cm	DEPTH	SiT %	AlT %	FeT %	MnT ppm	ZnT ppm	CuT ppm	NiT ppm	CrT ppm	LAB. ID.
50.0	813.0	815.0	27.2	6.1	3.6	671.	65.	8.	47.	28.	18219
50.0	820.0	822.0	23.5	9.3	8.0	534.	119.	26.	72.	***	98124
50.0	825.0	827.0	26.1	9.6	6.2	681.	125.	25.	56.	118.	18221
50.0	830.0	832.0	24.2	9.2	7.4	555.	108.	19.	72.	***	98125
50.0	840.0	842.0	31.7	10.6	8.5	686.	103.	22.	62.	***	98126
50.0	845.0	847.0	28.3	7.1	4.9	491.	80.	19.	50.	***	98127
50.0	850.0	852.0	28.9	6.8	4.8	449.	69.	12.	55.	***	98128
50.0	935.0	937.0	21.6	8.9	6.9	598.	108.	13.	83.	***	98129
50.0	940.0	942.0	22.3	9.3	6.5	702.	102.	15.	94.	***	98130
50.0	945.0	947.0	22.6	9.3	6.1	702.	95.	10.	83.	***	98131
50.0	955.0	957.0	21.0	9.3	6.0	719.	100.	13.	87.	***	98132
50.0	965.0	967.0	21.0	8.2	5.8	702.	95.	12.	72.	***	98133
50.0	1045.0	1047.0	24.8	9.4	7.2	491.	95.	10.	88.	***	98157
50.0	1050.0	1052.0	25.3	8.4	5.7	576.	97.	35.	81.	***	98158
50.0	1055.0	1057.0	24.4	9.2	6.7	669.	111.	25.	88.	***	98159
50.0	1060.0	1062.0	23.1	9.2	6.3	703.	109.	22.	84.	***	98160
50.0	1065.0	1067.0	23.2	8.7	6.4	719.	106.	25.	76.	***	98161
50.0	1081.0	1083.0	24.5	7.6	4.9	636.	82.	13.	67.	***	98134
50.0	1086.0	1088.0	24.1	8.2	5.7	555.	101.	38.	67.	***	98135
50.0	1088.0	1090.0	23.9	8.6	5.9	576.	100.	35.	101.	***	98136
50.0	1090.0	1092.0	26.4	9.6	5.9	576.	104.	37.	84.	***	98137
50.0	1092.0	1094.0	25.0	8.8	4.6	427.	105.	33.	82.	***	98138
50.0	1094.0	1096.0	25.4	8.9	7.0	576.	103.	37.	82.	***	98139
50.0	1096.0	1098.0	26.5	9.5	6.1	545.	101.	33.	74.	***	98140
50.0	1101.0	1103.0	25.9	8.6	5.9	619.	96.	25.	66.	***	98141
50.0	1103.0	1105.0	24.4	8.9	6.0	652.	92.	21.	82.	***	98142
50.0	1108.0	1110.0	25.4	7.0	4.5	576.	66.	13.	66.	***	98143
50.0	1110.0	1112.0	25.6	7.6	4.7	555.	93.	21.	66.	***	98144
50.0	1112.0	1114.0	26.7	7.2	4.4	534.	86.	23.	66.	***	98145
53.0	41.0	48.0	22.3	7.2	4.2	1200.	95.	32.	57.	80.	802166
53.0	57.0	70.0	23.9	9.0	5.3	951.	106.	33.	62.	96.	802167
53.0	85.0	100.0	24.7	7.4	4.0	695.	82.	15.	72.	64.	802168
53.0	110.0	125.0	22.6	8.5	5.7	683.	110.	28.	67.	88.	802170
53.0	133.0	144.0	23.2	9.1	5.5	646.	113.	33.	62.	107.	802171
53.0	153.0	167.0	22.4	6.0	3.6	585.	64.	8.	35.	64.	802172
53.0	173.0	185.0	25.3	10.4	5.9	659.	119.	28.	52.	107.	802173
53.0	187.0	200.0	23.5	9.5	5.5	695.	110.	27.	57.	115.	802175
53.0	215.0	227.0	29.8	7.5	3.8	707.	75.	18.	41.	76.	802176
53.0	254.0	265.0	28.4	7.8	4.3	732.	86.	18.	54.	79.	802177
53.0	275.0	286.0	23.8	10.1	5.4	817.	115.	20.	92.	96.	802178
53.0	287.0	298.0	27.9	7.9	3.8	793.	90.	20.	47.	66.	802179
53.0	305.0	318.0	25.2	9.6	5.0	805.	108.	27.	52.	96.	802180
53.0	323.0	328.0	25.6	9.3	5.3	561.	109.	28.	57.	104.	802181
53.0	335.0	349.0	26.2	9.7	5.4	537.	111.	25.	47.	115.	802182
53.0	356.0	374.0	23.1	8.3	4.6	671.	106.	25.	52.	100.	802183
53.0	374.0	393.0	24.8	9.6	5.3	732.	107.	20.	57.	107.	802184
53.0	393.0	416.0	24.1	10.0	5.6	659.	116.	22.	72.	119.	802185
53.0	416.0	423.0	25.3	10.2	5.9	732.	113.	18.	57.	111.	802186

CORE	LOGGED DEPTH cm		FeWA ppm	MnWA ppm	ZnWA ppm	CuWA ppm	CrWA ppm	ID
12.0	.1	.1	2230.	316.	7.2	4.4	3.8	803337
12.0	.1	2.0	2030.	320.	9.5	5.0	5.3	803338
12.0	2.0	6.0	1860.	258.	4.5	4.0	3.8	803339
12.0	6.0	15.0	1840.	245.	3.3	3.3	4.3	803340
12.0	15.0	24.0	1770.	273.	4.7	3.7	3.8	803341
12.0	24.0	33.0	1840.	299.	5.8	3.3	3.8	803342
12.0	33.0	39.0	1180.	508.	4.5	8.1	4.3	803343
12.0	39.0	45.0	1240.	469.	4.1	6.6	2.9	803344
12.1	.1	.3	***	***	***	***	***	*122901
12.1	.1	1.0	1970.	216.	15.9	4.7	3.3	122902
12.1	1.0	2.0	2000.	212.	6.4	5.0	3.4	122903
12.1	2.0	3.0	1930.	227.	5.7	4.4	3.3	122904
12.1	3.0	4.0	1860.	235.	5.3	3.1	2.8	122905
12.1	4.0	5.0	1830.	237.	5.0	3.8	2.8	122906
12.1	5.0	6.0	1850.	248.	4.8	3.1	2.8	122907
12.1	6.0	7.0	1910.	237.	5.9	3.1	3.0	122908
12.1	7.0	8.0	1820.	238.	5.3	2.8	3.1	122909
12.1	8.0	9.0	1890.	242.	6.4	3.4	2.7	122910
12.1	9.0	10.0	1730.	237.	4.8	3.1	2.6	122911
12.1	11.0	13.0	1750.	242.	5.7	2.8	2.9	122912
12.1	13.0	15.0	1600.	252.	4.7	2.8	2.6	122913
12.1	15.0	17.0	1840.	264.	5.0	2.5	2.4	122914
12.1	17.0	19.0	1770.	272.	5.7	3.1	2.8	122915
12.1	19.0	21.0	1830.	284.	5.2	2.8	2.9	122916
12.1	21.0	23.0	1950.	286.	5.5	2.8	2.9	122917
12.1	23.0	25.0	1810.	290.	4.8	2.5	2.8	122918
12.1	25.0	30.0	1070.	325.	3.5	7.5	2.5	122919
12.1	30.0	35.0	1420.	333.	3.3	6.3	2.9	122920
12.1	35.0	40.0	1110.	219.	4.2	3.1	3.0	122921
12.1	40.0	45.0	1120.	222.	3.8	2.8	2.9	122922
12.1	48.0	50.0	913.	200.	2.6	7.5	2.4	122923
15.0	.1	3.0	1450.	261.	97.1	22.9	3.8	*803345
15.0	3.0	10.0	1500.	258.	112.0	23.1	3.8	*803346
15.0	10.0	15.0	1580.	263.	131.0	28.0	6.9	*803347
15.0	28.0	30.0	1330.	250.	95.0	27.7	4.8	*803348
15.0	30.0	34.0	988.	393.	6.5	5.7	3.6	*803349
15.0	34.0	40.0	1410.	357.	5.2	4.2	4.5	803350
15.0	40.0	46.0	1500.	360.	5.7	3.1	3.6	803351
15.0	72.0	78.0	625.	265.	4.4	26.4	3.6	803352
15.0	102.0	108.0	611.	185.	3.0	8.1	2.6	803353
15.0	119.0	131.0	887.	117.	3.9	4.6	2.6	803354
15.0	256.0	269.0	1500.	99.	6.8	3.1	3.6	803355
15.0	413.0	425.0	1890.	124.	7.7	8.5	4.0	803356
15.0	475.0	478.0	1660.	309.	3.8	3.5	***	18201
15.0	540.0	550.0	2300.	182.	8.7	2.3	5.4	803357
15.0	625.0	627.0	2290.	278.	6.8	1.7	***	18202
15.0	680.0	681.0	2140.	170.	6.3	1.7	***	18203
15.0	687.0	688.0	1790.	278.	4.5	1.3	***	18204
15.0	722.0	732.0	2460.	179.	9.4	1.9	5.8	803358
15.0	867.0	878.0	2250.	261.	6.8	3.1	7.4	803359

CORE	LOGGED DEPTH cm	FeWA ppm	MnWA ppm	ZnWA ppm	CuWA ppm	CrWA ppm	LAB. ID.	
15.0	1027.0	1037.0	1880.	222.	6.6	4.2	4.2	803360
15.0	1039.0	1054.0	1910.	243.	7.1	7.9	4.7	803361
20.0	.1	1.0	1910.	259.	10.0	6.1	5.2	803362
20.0	1.0	3.0	1850.	245.	7.4	5.9	4.7	803363
20.0	3.0	5.0	1760.	218.	5.9	5.0	3.6	803364
20.0	5.0	8.0	1910.	213.	5.8	4.6	5.7	803365
20.0	8.0	11.0	1770.	220.	6.3	4.2	5.7	803366
20.0	11.0	15.0	1800.	235.	6.4	4.1	6.8	803367
20.0	15.0	19.0	1820.	235.	6.7	3.9	6.3	803368
20.0	19.0	24.0	1770.	244.	6.6	4.0	5.7	803369
20.0	24.0	29.0	1740.	264.	6.4	3.5	3.6	803370
20.0	34.0	40.0	1490.	315.	6.7	4.0	5.7	803372
20.0	40.0	49.0	994.	436.	4.4	7.2	3.1	803373
24.0	83.0	98.0	1260.	201.	7.3	6.1	2.5	803374
24.0	103.0	118.0	1620.	269.	5.1	2.8	3.1	803375
24.0	160.0	180.0	1500.	266.	6.0	5.7	3.6	803376
24.0	230.0	255.0	1610.	275.	5.9	4.4	5.2	803377
24.0	235.0	280.0	2010.	199.	7.9	3.3	5.7	803378
24.0	420.0	422.0	1220.	164.	5.8	22.7	***	18205
24.0	428.0	430.0	1220.	274.	4.2	4.0	***	18206
24.0	432.0	457.0	2520.	264.	7.5	3.0	5.7	803379
24.0	515.0	520.0	1230.	161.	6.2	1.7	***	18207
24.0	528.0	531.0	1670.	210.	4.5	5.6	***	18208
24.0	546.0	549.0	2360.	299.	8.0	2.4	***	18209
24.0	553.0	555.0	1690.	300.	5.1	1.4	***	18210
24.0	564.0	565.0	2560.	189.	10.0	1.4	***	18211
24.0	602.0	604.0	2260.	326.	8.1	4.9	***	18212
24.0	644.0	669.0	1940.	275.	6.0	3.7	6.3	803380
24.0	676.0	678.0	2110.	286.	6.1	3.8	***	18213
24.0	718.0	743.0	2380.	281.	7.8	3.8	6.3	803381
24.0	743.0	773.0	1640.	303.	5.1	9.5	4.2	803382
24.0	905.0	920.0	1380.	220.	4.0	3.8	5.2	803383
24.0	920.0	955.0	1150.	204.	3.4	3.3	2.5	803384
24.0	1025.0	1050.0	881.	201.	2.8	2.6	6.8	803385
39.0	.1	10.0	1760.	279.	11.5	5.1	6.8	803386
39.0	10.0	16.0	1880.	298.	17.7	5.1	5.5	803387
39.0	19.0	24.0	895.	358.	8.1	7.3	2.5	803388
39.0	24.0	29.0	***	***	***	***	***	803389
39.0	29.0	34.0	1010.	251.	6.4	5.1	4.7	803390
39.0	34.0	39.0	***	***	***	***	***	803391
39.0	39.0	44.0	1080.	230.	6.7	5.1	3.6	803392
39.0	44.0	48.0	***	***	***	***	***	803393
39.0	48.0	53.0	866.	194.	10.1	4.0	2.5	803394
39.0	53.0	58.0	***	***	***	***	***	803395
39.0	58.0	63.0	1010.	203.	6.0	8.4	4.7	803396
39.0	65.0	70.0	***	***	***	***	***	803397
39.0	70.0	75.0	1530.	319.	4.9	3.0	6.8	803398
39.0	75.0	80.0	***	***	***	***	***	802100
39.0	80.0	85.0	1560.	325.	4.2	3.0	3.1	802101
39.0	85.0	90.0	***	***	***	***	***	802102

CORE	LOGGED DEPTH cm		FeWA ppm	MnWA ppm	ZnWA ppm	CuWA ppm	CrWA ppm	LAB. ID.
39.0	90.0	95.0	1490.	320.	4.6	3.5	4.7	802103
39.0	95.0	100.0	***	***	***	***	***	802104
39.0	100.0	105.0	1030.	214.	4.3	2.9	2.8	802105
39.0	105.0	110.0	***	***	***	***	***	802106
39.0	110.0	115.0	1480.	294.	5.7	3.6	5.2	802107
39.0	115.0	120.0	***	***	***	***	***	802109
39.0	120.0	125.0	1390.	311.	6.6	4.9	3.1	802110
39.0	125.0	132.0	***	***	***	***	***	802111
39.0	135.0	140.0	1700.	270.	6.6	2.9	4.7	802112
39.0	140.0	145.0	***	***	***	***	***	802113
39.0	145.0	150.0	1590.	248.	7.1	2.6	5.2	802114
39.0	150.0	155.0	***	***	***	***	***	802115
39.0	155.0	160.0	908.	119.	3.2	2.1	3.1	802116
39.0	160.0	165.0	***	***	***	***	***	802117
39.0	167.0	172.0	1210.	119.	5.2	7.0	4.2	802118
39.0	172.0	177.0	***	***	***	***	***	802119
39.0	177.0	182.0	967.	183.	4.1	2.8	4.7	802120
39.0	182.0	187.0	***	***	***	***	***	802121
39.0	187.0	192.0	568.	189.	2.8	5.6	2.5	802122
39.0	192.0	197.0	***	***	***	***	***	802123
39.0	197.0	202.0	759.	164.	3.5	6.8	2.5	802124
39.0	205.0	214.0	1200.	188.	4.4	3.9	4.4	802125
39.0	214.0	223.0	1860.	281.	9.5	4.2	5.2	802126
39.0	223.0	232.0	1880.	292.	6.4	3.8	4.7	802127
39.0	232.0	241.0	1270.	187.	4.3	10.9	5.7	802128
39.0	241.0	250.0	1210.	174.	3.9	12.9	1.9	802129
39.0	250.0	259.0	1420.	183.	5.0	6.4	4.2	802130
39.0	259.0	268.0	1630.	234.	5.3	5.0	5.7	802131
40.0	.1	5.0	1060.	446.	3.4	7.9	2.5	802132
40.0	5.0	10.0	2410.	245.	4.0	12.0	6.3	802133
40.0	10.0	15.0	818.	218.	2.6	4.8	2.5	802134
40.0	15.0	20.0	833.	218.	2.5	3.3	2.5	802135
40.0	20.0	25.0	1410.	464.	3.1	4.8	3.6	802136
40.0	25.0	30.0	1040.	282.	3.9	11.6	2.5	802137
40.0	30.0	35.0	699.	198.	3.3	6.3	2.5	802138
40.0	35.0	40.0	685.	214.	3.2	5.2	3.6	802139
40.0	40.0	45.0	744.	224.	2.6	9.1	2.5	802140
40.0	45.0	52.0	640.	224.	3.1	7.9	1.9	802141
45.0	385.0	400.0	1580.	113.	7.7	5.2	2.5	802143
45.0	400.0	412.0	2200.	186.	8.2	1.9	4.2	802144
45.0	412.0	425.0	2000.	209.	6.8	6.4	4.2	802145
45.0	425.0	440.0	1680.	235.	5.6	6.4	4.4	802146
45.0	440.0	450.0	2390.	242.	5.8	5.2	7.4	802147
45.0	450.0	460.0	1810.	336.	5.5	2.8	5.7	802148
45.0	460.0	480.0	2820.	190.	9.6	1.9	6.8	802149
45.0	485.0	500.0	2620.	188.	8.1	1.6	6.8	802150
45.0	500.0	515.0	1980.	201.	6.1	3.9	6.8	802151
45.0	515.0	525.0	2120.	262.	6.4	4.7	6.8	802152
45.0	525.0	533.0	2260.	298.	6.8	3.8	4.2	802153
45.0	740.0	742.0	1990.	286.	7.9	2.2	***	18215

CORE	LOGGED DEPTH cm	FeWA ppm	MnWA ppm	ZnWA ppm	CuWA ppm	CrWA ppm	LAB. ID.	
45.0	745.0	748.0	1860.	308.	5.1	1.3	***	18214
45.0	754.0	756.0	2780.	193.	10.4	1.6	***	18216
45.0	907.0	909.0	1560.	355.	2.6	6.2	***	18217
45.0	924.0	926.0	1960.	351.	5.7	14.8	***	18218
45.0	1148.0	1160.0	1820.	178.	6.8	3.8	3.1	802155
45.0	1160.0	1172.0	1350.	188.	4.7	3.3	2.5	802156
45.0	1172.0	1184.0	1750.	305.	5.4	10.4	4.4	802157
45.0	1184.0	1196.0	1320.	368.	5.3	9.5	4.7	802158
45.0	1196.0	1202.0	***	***	***	***	***	802165
45.0	1202.0	1212.0	967.	200.	2.6	1.9	4.7	802159
45.0	1212.0	1223.0	952.	205.	2.1	2.7	3.6	802160
45.0	1223.0	1234.0	938.	202.	2.7	2.3	4.7	802161
45.0	1234.0	1245.0	938.	195.	2.6	2.5	1.9	802162
45.0	1245.0	1256.0	952.	200.	2.3	2.3	1.9	802163
45.0	1256.0	1271.0	982.	201.	2.8	2.5	4.7	802164
50.0	128.0	130.0	1010.	255.	5.7	8.5	***	98101
50.0	132.0	134.0	697.	279.	4.5	27.5	***	98102
50.0	134.0	136.0	759.	274.	3.4	10.0	***	98103
50.0	136.0	138.0	841.	245.	5.1	5.3	***	98104
50.0	138.0	140.0	903.	244.	13.4	5.9	***	98105
50.0	140.0	142.0	848.	242.	6.7	2.5	***	98106
50.0	142.0	144.0	834.	240.	3.5	2.5	***	98107
50.0	144.0	146.0	786.	240.	3.1	2.5	***	98108
50.0	146.0	148.0	745.	243.	5.2	4.8	***	98109
50.0	148.0	150.0	779.	243.	8.2	4.9	***	98110
50.0	150.0	152.0	738.	240.	6.5	6.3	***	98111
50.0	152.0	154.0	814.	249.	3.5	5.0	***	98112
50.0	156.0	158.0	476.	142.	1.1	14.6	***	98113
50.0	158.0	160.0	538.	142.	1.4	4.5	***	98114
50.0	160.0	162.0	579.	145.	.9	4.5	***	98115
50.0	164.0	166.0	869.	213.	3.3	9.3	***	98116
50.0	166.0	167.5	1000.	238.	6.6	32.2	***	98117
50.0	170.0	172.0	785.	164.	3.0	6.0	***	98118
50.0	310.0	312.0	1360.	218.	5.1	3.6	***	98119
50.0	315.0	317.0	1990.	265.	7.5	5.1	***	98120
50.0	320.0	322.0	2000.	281.	7.5	4.7	***	98121
50.0	325.0	327.0	1950.	285.	7.2	4.4	***	98122
50.0	330.0	332.0	2020.	292.	7.4	4.4	***	98123
50.0	460.0	462.0	2620.	176.	9.0	3.9	***	98146
50.0	465.0	467.0	2640.	184.	8.2	3.1	***	98147
50.0	470.0	472.0	2230.	182.	7.6	2.8	***	98148
50.0	473.0	475.0	2130.	177.	6.6	2.8	***	98149
50.0	530.0	532.0	3170.	174.	9.4	3.2	***	98150
50.0	535.0	537.0	3140.	192.	9.6	2.8	***	98151
50.0	545.0	547.0	2800.	188.	7.7	2.8	***	98152
50.0	550.0	552.0	2770.	187.	7.9	3.6	***	98153
50.0	555.0	557.0	2560.	204.	8.2	2.3	***	98154
50.0	718.0	720.0	2830.	70.	6.8	3.6	***	98155
50.0	723.0	725.0	2720.	163.	8.0	3.4	***	98156
50.0	808.0	809.0	2350.	273.	8.2	1.6	***	18220

CORE	LOGGED DEPTH cm		FeWA ppm	MnWA ppm	ZnWA ppm	CuWA ppm	CrWA ppm	LAB. ID.
50.0	813.0	815.0	2090.	293.	7.8	1.9	***	18219
50.0	820.0	822.0	3240.	173.	9.6	3.3	***	98124
50.0	825.0	827.0	2630.	185.	10.3	1.5	***	18221
50.0	830.0	832.0	3050.	177.	9.2	3.3	***	98125
50.0	840.0	842.0	2820.	178.	2.8	2.9	***	98126
50.0	845.0	847.0	2100.	168.	6.0	2.9	***	98127
50.0	850.0	852.0	2000.	157.	6.0	2.9	***	98128
50.0	935.0	937.0	2270.	225.	6.0	3.4	***	98129
50.0	940.0	942.0	1970.	282.	6.3	4.3	***	98130
50.0	945.0	947.0	1900.	306.	6.0	3.8	***	98131
50.0	955.0	957.0	2070.	292.	6.4	4.4	***	98132
50.0	965.0	967.0	2050.	323.	6.3	4.7	***	98133
50.0	1045.0	1047.0	2000.	111.	6.5	3.6	***	98157
50.0	1050.0	1052.0	2130.	197.	6.1	8.4	***	98158
50.0	1055.0	1057.0	1720.	221.	6.7	4.2	***	98159
50.0	1060.0	1062.0	2780.	278.	8.2	5.0	***	98160
50.0	1065.0	1067.0	2790.	288.	8.7	4.8	***	98161
50.0	1081.0	1083.0	2390.	289.	7.2	3.8	***	98134
50.0	1086.0	1088.0	1750.	213.	7.2	12.8	***	98135
50.0	1088.0	1090.0	1790.	199.	8.3	13.6	***	98136
50.0	1090.0	1092.0	1850.	198.	7.7	12.9	***	98137
50.0	1092.0	1094.0	1691.	188.	7.0	10.6	***	98138
50.0	1094.0	1096.0	3040.	177.	11.8	8.4	***	98139
50.0	1096.0	1098.0	1550.	175.	6.2	12.1	***	98140
50.0	1101.0	1103.0	1450.	207.	6.1	9.5	***	98141
50.0	1103.0	1105.0	1770.	236.	5.7	7.0	***	98142
50.0	1108.0	1110.0	1460.	249.	5.2	6.3	***	98143
50.0	1110.0	1112.0	1520.	242.	5.2	6.5	***	98144
50.0	1112.0	1114.0	1470.	243.	5.0	6.1	***	98145
53.0	41.0	48.0	1080.	671.	4.4	9.8	1.0	802166
53.0	57.0	70.0	677.	373.	2.6	4.7	2.1	802167
53.0	85.0	100.0	1090.	320.	3.2	3.1	2.2	802168
53.0	110.0	125.0	694.	219.	3.1	5.2	1.0	802170
53.0	133.0	144.0	631.	169.	2.7	5.6	1.0	802171
53.0	153.0	167.0	606.	175.	2.0	3.0	2.1	802172
53.0	173.0	185.0	1170.	178.	4.4	3.0	1.0	802173
53.0	187.0	200.0	1360.	237.	5.3	2.9	1.0	802175
53.0	215.0	227.0	1480.	264.	3.7	1.6	1.0	802176
53.0	254.0	265.0	1530.	298.	4.8	1.3	1.0	802177
53.0	275.0	286.0	1590.	317.	4.9	2.6	1.0	802178
53.0	287.0	298.0	1210.	351.	2.9	4.2	1.0	802179
53.0	305.0	318.0	1410.	308.	4.3	3.9	2.1	802180
53.0	323.0	328.0	1240.	114.	5.2	6.3	2.1	802181
53.0	335.0	349.0	1520.	96.	6.3	4.2	1.6	802182
53.0	356.0	374.0	1560.	220.	4.5	4.5	1.0	802183
53.0	374.0	393.0	1520.	238.	4.2	2.3	3.8	802184
53.0	393.0	416.0	2420.	169.	8.0	.7	2.1	802185
53.0	416.0	423.0	1790.	192.	4.6	3.1	2.1	802186

CORE	LOGGED DEPTH cm		FeHR ppm	MnHR ppm	ZnHR ppm	CuHR ppm	CrHR ppm	ID
12.0	.1	.1	750.	17.	7.4	3.4	9.9	803337
12.0	.1	2.0	620.	26.	11.3	2.1	.1	803338
12.0	2.0	6.0	240.	12.	3.7	.1	8.1	803339
12.0	6.0	15.0	20.	17.	3.1	.2	.4	803340
12.0	15.0	24.0	190.	3.	1.3	.1	2.5	803341
12.0	24.0	33.0	260.	17.	.6	.2	2.5	803342
12.0	33.0	39.0	340.	80.	1.6	1.8	2.0	803343
12.0	39.0	45.0	280.	71.	2.0	1.8	9.0	803344
12.1	.1	.3	***	***	***	***	***	*122901
12.1	.1	1.0	1.	11.	.1	.7	.1	122902
12.1	1.0	2.0	1.	18.	.1	1.1	.1	122903
12.1	2.0	3.0	1.	15.	.1	1.3	.1	122904
12.1	3.0	4.0	1.	19.	.1	.8	.1	122905
12.1	4.0	5.0	1.	19.	.1	.5	.1	122906
12.1	5.0	6.0	1.	17.	.1	1.2	.1	122907
12.1	6.0	7.0	1.	17.	.1	1.2	.1	122908
12.1	7.0	8.0	1.	15.	.1	1.5	.1	122909
12.1	8.0	9.0	1.	14.	.1	1.2	.1	122910
12.1	9.0	10.0	1.	19.	.2	1.5	.1	122911
12.1	11.0	13.0	120.	29.	.1	1.5	.1	122912
12.1	13.0	15.0	230.	31.	.4	1.8	.1	122913
12.1	15.0	17.0	1.	31.	.1	1.4	.1	122914
12.1	17.0	19.0	110.	23.	.1	1.5	.1	122915
12.1	19.0	21.0	1.	9.	.1	1.1	.1	122916
12.1	21.0	23.0	1.	22.	.1	1.5	.1	122917
12.1	23.0	25.0	1.	14.	.9	1.4	.1	122918
12.1	25.0	30.0	390.	449.	2.4	7.1	.1	122919
12.1	30.0	35.0	170.	308.	1.8	4.1	.1	122920
12.1	35.0	40.0	1.	29.	.4	1.5	.1	122921
12.1	40.0	45.0	1.	26.	.1	1.1	.1	122922
12.1	48.0	50.0	1.	20.	.2	1.4	.1	122923
15.0	.1	3.0	270.	1.	5.9	.1	2.5	*803345
15.0	3.0	10.0	180.	1.	.1	.1	2.5	*803346
15.0	10.0	15.0	340.	3.	.1	2.6	2.2	*803347
15.0	28.0	30.0	390.	23.	3.3	.8	1.5	*803348
15.0	30.0	34.0	502.	1.	7.8	3.4	3.2	*803349
15.0	34.0	40.0	50.	1.	1.7	.1	1.8	803350
15.0	40.0	46.0	70.	1.	.1	.1	2.0	803351
15.0	72.0	78.0	208.	42.	1.9	2.1	.1	803352
15.0	102.0	108.0	259.	26.	.8	1.4	.5	803353
15.0	119.0	131.0	343.	24.	2.1	.5	2.1	803354
15.0	256.0	269.0	640.	18.	3.0	.1	2.7	803355
15.0	413.0	425.0	390.	24.	1.1	2.1	7.9	803356
15.0	475.0	478.0	230.	64.	.5	.1	***	18201
15.0	540.0	550.0	580.	26.	1.2	.4	5.4	803357
15.0	625.0	627.0	350.	38.	1.0	.3	***	18202
15.0	680.0	681.0	550.	28.	1.7	.1	***	18203
15.0	687.0	688.0	250.	28.	1.9	.3	***	18204
15.0	722.0	732.0	1230.	28.	1.1	.7	7.0	803358
15.0	867.0	878.0	140.	25.	.8	.1	.1	803359

CORE	LOGGED DEPTH cm	FeHR ppm	MnHR ppm	ZnHR ppm	CuHR ppm	CrHR ppm	LAB. ID.	
15.0	1027.0	1037.0	200.	29.	.8	.9	2.1	803360
15.0	1039.0	1054.0	170.	24.	.7	.7	.3	803361
20.0	.1	1.0	300.	36.	2.4	.6	.4	803362
20.0	1.0	3.0	170.	28.	1.1	.2	1.6	803363
20.0	3.0	5.0	130.	29.	.6	.1	3.2	803364
20.0	5.0	8.0	40.	49.	.8	.1	.6	803365
20.0	8.0	11.0	90.	39.	.3	.3	5.1	803366
20.0	11.0	15.0	200.	40.	.1	.1	5.1	803367
20.0	15.0	19.0	170.	51.	.1	.6	6.2	803368
20.0	19.0	24.0	220.	66.	.1	.7	5.1	803369
20.0	24.0	29.0	30.	54.	.1	1.0	2.7	803370
20.0	34.0	40.0	130.	49.	.1	.1	2.8	803372
20.0	40.0	49.0	546.	481.	2.7	7.6	2.5	803373
24.0	83.0	98.0	360.	38.	2.1	2.1	2.8	803374
24.0	103.0	118.0	230.	36.	1.7	.3	3.2	803375
24.0	160.0	180.0	330.	28.	2.5	1.8	2.7	803376
24.0	230.0	255.0	250.	23.	.9	.1	1.1	803377
24.0	235.0	280.0	470.	23.	1.2	.1	4.5	803378
24.0	420.0	422.0	300.	25.	2.2	6.6	***	18205
24.0	428.0	430.0	130.	33.	.4	.1	***	18206
24.0	432.0	457.0	330.	37.	1.2	.1	7.1	803379
24.0	515.0	520.0	1920.	28.	1.9	.3	***	18207
24.0	528.0	531.0	350.	7.	2.3	.1	***	18208
24.0	546.0	549.0	390.	34.	.7	.1	***	18209
24.0	553.0	555.0	150.	16.	.9	.1	***	18210
24.0	564.0	565.0	1010.	53.	3.5	.5	***	18211
24.0	602.0	604.0	90.	57.	.5	.1	***	18212
24.0	644.0	669.0	180.	24.	1.0	.1	3.9	803380
24.0	676.0	678.0	190.	66.	1.8	.1	***	18213
24.0	718.0	743.0	180.	25.	1.5	.1	4.5	803381
24.0	743.0	773.0	40.	28.	1.4	.6	1.1	803382
24.0	905.0	920.0	70.	20.	.9	.1	.1	803383
24.0	920.0	955.0	80.	32.	.3	.1	1.6	803384
24.0	1025.0	1050.0	99.	27.	.1	.1	.1	803385
39.0	.1	10.0	230.	34.	2.4	.6	.1	803386
39.0	10.0	16.0	140.	50.	1.4	.1	.8	803387
39.0	19.0	24.0	415.	251.	6.7	7.5	3.8	803388
39.0	24.0	29.0	***	***	***	***	***	803389
39.0	29.0	34.0	180.	39.	1.4	.8	1.6	803390
39.0	34.0	39.0	***	***	***	***	***	803391
39.0	39.0	44.0	100.	41.	1.1	.1	5.5	803392
39.0	44.0	48.0	***	***	***	***	***	803393
39.0	48.0	53.0	284.	1.	.1	.1	6.6	803394
39.0	53.0	58.0	***	***	***	***	***	803395
39.0	58.0	63.0	150.	29.	.9	.1	4.4	803396
39.0	65.0	70.0	***	***	***	***	***	803397
39.0	70.0	75.0	120.	31.	.6	.1	1.7	803398
39.0	75.0	80.0	***	***	***	***	***	802100
39.0	80.0	85.0	1.	32.	.9	.1	4.6	802101
39.0	85.0	90.0	***	***	***	***	***	802102

CORE	LOGGED DEPTH cm	FeHR ppm	MnHR ppm	ZnHR ppm	CuHR ppm	CrHR ppm	LAB. ID.	
							802103	
39.0	90.0	95.0	1.	14.	.8	.1	.9	802104
			***	***	***	***	***	802105
39.0	95.0	100.0						802106
39.0	100.0	105.0	130.	43.	.6	.6	1.6	802107
			***	***	***	***	***	802109
39.0	105.0	110.0						802110
39.0	110.0	115.0	200.	42.	1.0	.7	1.1	802111
			***	***	***	***	***	802112
39.0	115.0	120.0						802113
39.0	120.0	125.0	350.	28.	.1	.8	3.2	802114
			***	***	***	***	***	802115
39.0	125.0	132.0						802116
39.0	135.0	140.0	220.	39.	.1	.1	3.8	802117
			***	***	***	***	***	802118
39.0	140.0	145.0						802119
39.0	145.0	150.0	410.	37.	.9	.4	1.6	802120
			***	***	***	***	***	802121
39.0	150.0	155.0						802122
39.0	155.0	160.0	242.	35.	.8	.3	.7	802123
			***	***	***	***	***	802124
39.0	160.0	165.0						802125
39.0	167.0	172.0	90.	164.	.7	.1	1.1	802126
			***	***	***	***	***	802127
39.0	172.0	177.0						802128
39.0	177.0	182.0	83.	44.	.4	.1	.9	802129
			***	***	***	***	***	802130
39.0	182.0	187.0						802131
39.0	187.0	192.0	247.	60.	1.3	5.2	3.0	802132
			***	***	***	***	***	802133
39.0	192.0	197.0						802134
39.0	197.0	202.0	185.	47.	.8	2.7	1.9	802135
								802136
39.0	205.0	214.0	280.	41.	1.4	.8	1.9	802137
								802138
39.0	214.0	223.0	30.	49.	.1	.3	5.6	802139
								802140
39.0	223.0	232.0	1.	43.	.2	.1	1.2	802141
								802142
39.0	232.0	241.0	180.	28.	1.0	1.8	.6	802143
								802144
39.0	241.0	250.0	20.	22.	1.3	.9	4.4	802145
								802146
39.0	250.0	259.0	70.	23.	1.3	.5	2.1	802147
								802148
39.0	259.0	268.0	60.	14.	1.6	.1	1.1	802149
								802150
40.0	.1	5.0	460.	522.	4.1	5.9	3.8	802151
								802152
40.0	5.0	10.0	670.	567.	1.2	2.3	3.9	802153
								802154
40.0	10.0	15.0	412.	97.	3.3	6.6	.6	802155
								802156
40.0	15.0	20.0	467.	53.	3.5	4.7	3.8	802157
								802158
40.0	20.0	25.0	640.	323.	1.6	2.5	2.7	802159
								802160
40.0	25.0	30.0	230.	34.	1.1	.5	.6	802161
								802162
40.0	30.0	35.0	269.	18.	1.5	3.0	3.1	802163
								802164
40.0	35.0	40.0	222.	15.	1.7	.1	2.0	802165
								802166
40.0	40.0	45.0	346.	20.	2.2	8.2	1.9	802167
								802168
40.0	45.0	52.0	218.	25.	1.8	4.0	2.5	802169
								802170
45.0	385.0	400.0	500.	12.	4.0	.5	3.8	802171
								802172
45.0	400.0	412.0	560.	11.	1.4	.1	7.7	802173
								802174
45.0	412.0	425.0	240.	11.	1.4	.1	2.1	802175
								802176
45.0	425.0	440.0	70.	13.	.5	.1	.1	802177
								802178
45.0	440.0	450.0	190.	6.	.6	.1	4.5	802179
								802180
45.0	450.0	460.0	1.	1.	.1	.1	1.1	802181
								802182
45.0	460.0	480.0	1150.	25.	1.7	.1	8.6	802183
								802184
45.0	485.0	500.0	1050.	27.	1.9	.1	8.6	802185
								802186
45.0	500.0	515.0	10.	13.	.6	.1	3.4	802187
								802188
45.0	515.0	525.0	160.	11.	.6	.1	5.1	802189
								802190
45.0	525.0	533.0	130.	9.	1.2	.1	7.7	802191
								802192
45.0	740.0	742.0	900.	36.	1.2	.1	***	18215

CORE	LOGGED DEPTH cm	FeHR ppm	MnHR ppm	ZnHR ppm	CuHR ppm	CrHR ppm	LAB. ID.	
45.0	745.0	748.0	140.	36.	.6	.2	***	18214
45.0	754.0	756.0	1390.	41.	4.7	.5	***	18216
45.0	907.0	909.0	70.	84.	.9	.1	***	18217
45.0	924.0	926.0	390.	65.	2.3	.1	***	18218
45.0	1148.0	1160.0	210.	12.	.9	.1	3.2	802155
45.0	1160.0	1172.0	200.	20.	.6	.1	3.8	802156
45.0	1172.0	1184.0	110.	1.	1.0	1.2	1.9	802157
45.0	1184.0	1196.0	80.	1.	.7	.4	1.6	802158
45.0	1196.0	1202.0	***	***	***	***	***	802165
45.0	1202.0	1212.0	1.	7.	.1	.1	1.6	802159
45.0	1212.0	1223.0	41.	4.	.5	.1	2.7	802160
45.0	1223.0	1234.0	30.	4.	.1	.1	1.6	802161
45.0	1234.0	1245.0	18.	7.	.1	.1	7.8	802162
45.0	1245.0	1256.0	41.	8.	.2	.1	4.4	802163
45.0	1256.0	1271.0	38.	7.	.1	.1	1.6	802164
50.0	128.0	130.0	610.	1.	2.3	.7	***	98101
50.0	132.0	134.0	323.	1.	1.5	2.0	***	98102
50.0	134.0	136.0	381.	1.	2.6	1.4	***	98103
50.0	136.0	138.0	419.	3.	1.8	.8	***	98104
50.0	138.0	140.0	487.	1.	5.2	.2	***	98105
50.0	140.0	142.0	352.	1.	3.3	2.6	***	98106
50.0	142.0	144.0	386.	1.	2.8	2.5	***	98107
50.0	144.0	146.0	344.	1.	2.8	2.5	***	98108
50.0	146.0	148.0	285.	1.	3.5	***	***	98109
50.0	148.0	150.0	381.	1.	3.8	1.8	***	98110
50.0	150.0	152.0	332.	1.	2.3	.1	***	98111
50.0	152.0	154.0	406.	1.	2.2	.1	***	98112
50.0	156.0	158.0	259.	1.	.9	.1	***	98113
50.0	158.0	160.0	244.	1.	.6	.1	***	98114
50.0	160.0	162.0	237.	1.	1.2	.1	***	98115
50.0	164.0	166.0	461.	1.	2.0	.1	***	98116
50.0	166.0	167.5	610.	1.	2.6	2.0	***	98117
50.0	170.0	172.0	405.	1.	2.5	.1	***	98118
50.0	310.0	312.0	750.	30.	2.9	2.5	***	98119
50.0	315.0	317.0	880.	10.	3.0	.1	***	98120
50.0	320.0	322.0	850.	1.	3.3	.1	***	98121
50.0	325.0	327.0	830.	14.	1.9	.1	***	98122
50.0	330.0	332.0	700.	8.	1.2	.1	***	98123
50.0	460.0	462.0	1240.	12.	3.6	.1	***	98146
50.0	465.0	467.0	950.	16.	2.7	.1	***	98147
50.0	470.0	472.0	1090.	9.	2.6	.1	***	98148
50.0	473.0	475.0	1010.	2.	2.1	.1	***	98149
50.0	530.0	532.0	1910.	32.	5.2	.1	***	98150
50.0	535.0	537.0	910.	22.	3.0	.1	***	98151
50.0	545.0	547.0	930.	34.	2.7	.1	***	98152
50.0	550.0	552.0	1050.	21.	2.6	.1	***	98153
50.0	555.0	557.0	890.	8.	1.4	.2	***	98154
50.0	718.0	720.0	760.	14.	2.7	.1	***	98155
50.0	723.0	725.0	1100.	20.	2.9	.1	***	98156
50.0	808.0	809.0	160.	44.	.8	.2	***	18220

CORE	LOGGED	DEPTH	FeHR	MnHR	ZnHR	CuHR	CrHR	LAB. ID.
	cm	cm	ppm	ppm	ppm	ppm	ppm	
50.0	813.0	815.0	140.	19.	.2	.3	***	18219
50.0	820.0	822.0	1170.	5.	3.1	.1	***	98124
50.0	825.0	827.0	960.	44.	3.0	.5	***	18221
50.0	830.0	832.0	1760.	8.	2.5	.1	***	98125
50.0	840.0	842.0	1180.	7.	7.1	.1	***	98126
50.0	845.0	847.0	1220.	9.	.9	.1	***	98127
50.0	850.0	852.0	1250.	8.	.6	.1	***	98128
50.0	935.0	937.0	820.	11.	1.4	.1	***	98129
50.0	940.0	942.0	660.	2.	.7	.1	***	98130
50.0	945.0	947.0	540.	1.	1.0	.1	***	98131
50.0	955.0	957.0	670.	2.	1.4	.1	***	98132
50.0	965.0	967.0	690.	1.	.9	.3	***	98133
50.0	1045.0	1047.0	540.	10.	2.8	.1	***	98157
50.0	1050.0	1052.0	640.	23.	2.9	1.6	***	98158
50.0	1055.0	1057.0	510.	22.	2.9	.1	***	98159
50.0	1060.0	1062.0	630.	18.	2.9	.1	***	98160
50.0	1065.0	1067.0	620.	9.	2.3	.2	***	98161
50.0	1081.0	1083.0	430.	1.	1.2	.1	***	98134
50.0	1086.0	1088.0	810.	15.	3.3	2.9	***	98135
50.0	1088.0	1090.0	850.	9.	3.7	.2	***	98136
50.0	1090.0	1092.0	770.	1.	3.4	2.3	***	98137
50.0	1092.0	1094.0	929.	4.	3.1	1.3	***	98138
50.0	1094.0	1096.0	1320.	1.	5.6	.1	***	98139
50.0	1096.0	1098.0	1415.	6.	5.2	.1	***	98140
50.0	1101.0	1103.0	580.	11.	3.3	.5	***	98141
50.0	1103.0	1105.0	360.	18.	3.6	.8	***	98142
50.0	1108.0	1110.0	450.	2.	1.3	.1	***	98143
50.0	1110.0	1112.0	410.	1.	.9	.2	***	98144
50.0	1112.0	1114.0	470.	8.	.6	.6	***	98145
53.0	41.0	48.0	410.	84.	4.2	3.6	.1	802166
53.0	57.0	70.0	433.	58.	3.3	5.0	.1	802167
53.0	85.0	100.0	130.	15.	1.2	.1	.1	802168
53.0	110.0	125.0	237.	25.	1.3	2.0	1.1	802170
53.0	133.0	144.0	266.	17.	1.7	1.5	.1	802171
53.0	153.0	167.0	94.	24.	.6	.1	.1	802172
53.0	173.0	185.0	340.	12.	2.0	1.3	.1	802173
53.0	187.0	200.0	370.	18.	1.4	.7	.1	802175
53.0	215.0	227.0	150.	13.	1.0	.1	.1	802176
53.0	254.0	265.0	290.	10.	.1	.1	.1	802177
53.0	275.0	286.0	230.	8.	.7	.1	.1	802178
53.0	287.0	298.0	200.	1.	.5	.1	.1	802179
53.0	305.0	318.0	100.	24.	.1	.5	.1	802180
53.0	323.0	328.0	380.	11.	1.2	2.2	.1	802181
53.0	335.0	349.0	400.	14.	1.5	.2	.1	802182
53.0	356.0	374.0	140.	18.	.8	.1	.1	802183
53.0	374.0	393.0	190.	11.	.5	.1	.1	802184
53.0	393.0	416.0	1040.	27.	1.6	.2	.1	802185
53.0	416.0	423.0	180.	20.	.9	.1	.1	802186

CORE	LOGGED DEPTH		NaPW	MgPW	KPW	CaPW	SiO ₂ PW	NO ₃ PW	PO ₄ PW	ALKPW	
	cm		g.L ⁻¹	ppm	ppm	ppm	μM	μM	μM	meq.L ⁻¹	
12.0	.1	.1	10.1	1210.	433.	415.	95.	31.6	5.3	2.3	803337
12.0	.1	2.0	9.8	1200.	439.	417.	190.	26.0	8.2	2.8	803338
12.0	2.0	6.0	9.9	1160.	421.	448.	251.	32.2	14.6	3.5	803339
12.0	6.0	15.0	9.9	1180.	424.	443.	285.	13.5	20.0	4.0	803340
12.0	15.0	24.0	10.1	1190.	409.	465.	288.	14.9	20.1	4.2	803341
12.0	24.0	33.0	9.8	1180.	400.	467.	295.	15.3	17.1	4.4	803342
12.0	33.0	39.0	10.2	1200.	442.	480.	258.	12.4	12.1	4.3	803343
12.0	39.0	45.0	***	***	***	***	263.	21.2	6.1	4.4	803344
12.1	.1	.3	***	***	***	***	***	***	***	***	*122901
12.1	.1	1.0	***	***	***	***	***	***	***	***	122902
12.1	1.0	2.0	***	***	***	***	***	***	***	***	122903
12.1	2.0	3.0	***	***	***	***	***	***	***	***	122904
12.1	3.0	4.0	***	***	***	***	***	***	***	***	122905
12.1	4.0	5.0	***	***	***	***	***	***	***	***	122906
12.1	5.0	6.0	***	***	***	***	***	***	***	***	122907
12.1	6.0	7.0	***	***	***	***	***	***	***	***	122908
12.1	7.0	8.0	***	***	***	***	***	***	***	***	122909
12.1	8.0	9.0	***	***	***	***	***	***	***	***	122910
12.1	9.0	10.0	***	***	***	***	***	***	***	***	122911
12.1	11.0	13.0	***	***	***	***	***	***	***	***	122912
12.1	13.0	15.0	***	***	***	***	***	***	***	***	122913
12.1	15.0	17.0	***	***	***	***	***	***	***	***	122914
12.1	17.0	19.0	***	***	***	***	***	***	***	***	122915
12.1	19.0	21.0	***	***	***	***	***	***	***	***	122916
12.1	21.0	23.0	***	***	***	***	***	***	***	***	122917
12.1	23.0	25.0	***	***	***	***	***	***	***	***	122918
12.1	25.0	30.0	***	***	***	***	***	***	***	***	122919
12.1	30.0	35.0	***	***	***	***	***	***	***	***	122920
12.1	35.0	40.0	***	***	***	***	***	***	***	***	122921
12.1	40.0	45.0	***	***	***	***	***	***	***	***	122922
12.1	48.0	50.0	***	***	***	***	***	***	***	***	122923
15.0	.1	3.0	10.0	1180.	428.	432.	***	***	***	***	*803345
15.0	3.0	10.0	10.2	1210.	437.	435.	***	***	***	***	*803346
15.0	10.0	15.0	10.2	1230.	434.	440.	***	***	***	***	*803347
15.0	28.0	30.0	10.0	1190.	425.	433.	***	***	***	***	*803348
15.0	30.0	34.0	10.0	1230.	415.	450.	***	***	***	***	*803349
15.0	34.0	40.0	11.0	1260.	502.	475.	***	***	***	3.6	803350
15.0	40.0	46.0	10.3	1200.	431.	446.	200.	11.2	10.6	4.1	803351
15.0	72.0	78.0	10.4	1200.	440.	450.	248.	11.0	12.6	4.0	803352
15.0	102.0	108.0	10.3	1200.	434.	450.	233.	8.0	24.3	4.3	803353
15.0	119.0	131.0	10.1	1190.	378.	450.	255.	10.9	17.5	4.5	803354
15.0	256.0	269.0	10.2	1180.	415.	451.	431.	9.8	6.7	5.5	803355
15.0	413.0	425.0	10.2	1180.	388.	439.	349.	11.6	6.8	6.3	803356
15.0	475.0	478.0	***	***	***	***	***	***	***	***	18201
15.0	540.0	550.0	10.2	1180.	382.	408.	353.	10.6	5.5	6.8	803357
15.0	625.0	627.0	***	***	***	***	***	***	***	***	18202
15.0	680.0	681.0	***	***	***	***	***	***	***	***	18203
15.0	687.0	688.0	***	***	***	***	***	***	***	***	18204
15.0	722.0	732.0	10.1	1190.	366.	417.	349.	10.4	5.6	7.7	803358
15.0	867.0	878.0	10.3	1190.	366.	426.	469.	12.1	8.3	8.5	803359

CORE	LOGGED	DEPTH	NaPW	MgPW	KPW	CaPW	SiO ₂ PW	NO ₃ PW	PO ₄ PW	ALKPW	
	cm	cm	g.L ⁻¹	ppm	ppm	ppm	μM	μM	μM	meq.L ⁻¹	
50.0	813.0	815.0	***	***	***	***	***	***	***	***	18219
50.0	820.0	822.0	***	***	***	***	***	***	***	***	98124
50.0	825.0	827.0	***	***	***	***	***	***	***	***	18221
50.0	830.0	832.0	***	***	***	***	***	***	***	***	98125
50.0	840.0	842.0	***	***	***	***	***	***	***	***	98126
50.0	845.0	847.0	***	***	***	***	***	***	***	***	98127
50.0	850.0	852.0	***	***	***	***	***	***	***	***	98128
50.0	935.0	937.0	***	***	***	***	***	***	***	***	98129
50.0	940.0	942.0	***	***	***	***	***	***	***	***	98130
50.0	945.0	947.0	***	***	***	***	***	***	***	***	98131
50.0	955.0	957.0	***	***	***	***	***	***	***	***	98132
50.0	965.0	967.0	***	***	***	***	***	***	***	***	98133
50.0	1045.0	1047.0	***	***	***	***	***	***	***	***	98157
50.0	1050.0	1052.0	***	***	***	***	***	***	***	***	98158
50.0	1055.0	1057.0	***	***	***	***	***	***	***	***	98159
50.0	1060.0	1062.0	***	***	***	***	***	***	***	***	98160
50.0	1065.0	1067.0	***	***	***	***	***	***	***	***	98161
50.0	1081.0	1083.0	***	***	***	***	***	***	***	***	98134
50.0	1086.0	1088.0	***	***	***	***	***	***	***	***	98135
50.0	1088.0	1090.0	***	***	***	***	***	***	***	***	98136
50.0	1090.0	1092.0	***	***	***	***	***	***	***	***	98137
50.0	1092.0	1094.0	***	***	***	***	***	***	***	***	98138
50.0	1094.0	1096.0	***	***	***	***	***	***	***	***	98139
50.0	1096.0	1098.0	***	***	***	***	***	***	***	***	98140
50.0	1101.0	1103.0	***	***	***	***	***	***	***	***	98141
50.0	1103.0	1105.0	***	***	***	***	***	***	***	***	98142
50.0	1108.0	1110.0	***	***	***	***	***	***	***	***	98143
50.0	1110.0	1112.0	***	***	***	***	***	***	***	***	98144
50.0	1112.0	1114.0	***	***	***	***	***	***	***	***	98145
53.0	41.0	48.0	9.7	1150.	401.	440.	188.	42.3	10.3	1.6	802166
53.0	57.0	70.0	10.1	1180.	394.	479.	186.	79.1	13.0	1.3	802167
53.0	85.0	100.0	10.7	1230.	390.	490.	253.	39.2	12.4	.9	802168
53.0	110.0	125.0	10.9	1230.	395.	484.	220.	96.0	18.2	1.8	802170
53.0	133.0	144.0	10.8	1220.	387.	495.	218.	115.7	21.9	1.8	802171
53.0	153.0	167.0	10.8	1190.	392.	423.	258.	47.8	19.6	2.0	802172
53.0	173.0	185.0	10.9	1210.	402.	415.	316.	93.7	14.5	2.1	802173
53.0	187.0	200.0	11.0	1210.	403.	447.	324.	86.5	13.6	2.4	802175
53.0	215.0	227.0	10.6	1200.	389.	459.	399.	51.8	15.6	2.3	802176
53.0	254.0	265.0	11.2	1230.	416.	475.	406.	49.5	11.8	1.8	802177
53.0	275.0	286.0	10.6	1200.	402.	454.	431.	71.1	8.6	2.0	802178
53.0	287.0	298.0	10.7	1190.	388.	447.	424.	43.5	10.9	2.2	802179
53.0	305.0	318.0	10.5	1190.	385.	451.	409.	69.4	7.5	2.2	802180
53.0	323.0	328.0	10.7	1200.	395.	458.	376.	90.8	8.8	2.4	802181
53.0	335.0	349.0	11.0	1230.	394.	454.	403.	120.4	12.5	2.6	802182
53.0	356.0	374.0	10.5	1190.	380.	443.	413.	89.6	12.6	2.5	802183
53.0	374.0	393.0	10.8	1210.	383.	427.	414.	116.7	12.4	2.7	802184
53.0	393.0	416.0	10.6	1190.	374.	443.	401.	114.3	12.3	3.0	802185
53.0	416.0	423.0	10.6	1190.	382.	448.	368.	115.5	12.0	3.1	802186

CORE	LOGGED DEPTH cm	DEPTH cm	pH	pE	FePW ppb	MnPW ppb	LAB. ID.
12.0	.1	.1	7.2	6.51	2.	16.	803337
12.0	.1	2.0	7.2	6.51	1.	81.	803338
12.0	2.0	6.0	7.3	5.08	2.	101.	803339
12.0	6.0	15.0	7.4	4.49	9.	3790.	803340
12.0	15.0	24.0	7.3	4.07	1.	6060.	803341
12.0	24.0	33.0	7.2	3.83	22.	5190.	803342
12.0	33.0	39.0	7.2	5.93	6.	8010.	803343
12.0	39.0	45.0	***	***	***	***	803344
12.1	.1	.3	***	***	***	***	*122901
12.1	.1	1.0	***	***	***	***	122902
12.1	1.0	2.0	***	***	***	***	122903
12.1	2.0	3.0	***	***	***	***	122904
12.1	3.0	4.0	***	***	***	***	122905
12.1	4.0	5.0	***	***	***	***	122906
12.1	5.0	6.0	***	***	***	***	122907
12.1	6.0	7.0	***	***	***	***	122908
12.1	7.0	8.0	***	***	***	***	122909
12.1	8.0	9.0	***	***	***	***	122910
12.1	9.0	10.0	***	***	***	***	122911
12.1	11.0	13.0	***	***	***	***	122912
12.1	13.0	15.0	***	***	***	***	122913
12.1	15.0	17.0	***	***	***	***	122914
12.1	17.0	19.0	***	***	***	***	122915
12.1	19.0	21.0	***	***	***	***	122916
12.1	21.0	23.0	***	***	***	***	122917
12.1	23.0	25.0	***	***	***	***	122918
12.1	25.0	30.0	***	***	***	***	122919
12.1	30.0	35.0	***	***	***	***	122920
12.1	35.0	40.0	***	***	***	***	122921
12.1	40.0	45.0	***	***	***	***	122922
12.1	48.0	50.0	***	***	***	***	122923
15.0	.1	3.0	7.3	6.10	4.	5020.	*803345
15.0	3.0	10.0	7.4	5.98	4.	4070.	*803346
15.0	10.0	15.0	7.4	5.98	12.	5410.	*803347
15.0	28.0	30.0	7.4	5.75	5.	3890.	*803348
15.0	30.0	34.0	7.4	5.85	7.	5630.	*803349
15.0	34.0	40.0	7.4	3.37	29.	6320.	803350
15.0	40.0	46.0	7.6	2.63	40.	4370.	803351
15.0	72.0	78.0	7.8	3.69	141.	6490.	803352
15.0	102.0	108.0	7.2	6.32	5.	6490.	803353
15.0	119.0	131.0	7.6	3.85	150.	5190.	803354
15.0	256.0	269.0	8.2	2.03	3470.	4440.	803355
15.0	413.0	425.0	7.5	1.51	3710.	2810.	803356
15.0	475.0	478.0	***	***	***	***	18201
15.0	540.0	550.0	7.4	3.47	3710.	1730.	803357
15.0	625.0	627.0	***	***	***	***	18202
15.0	680.0	681.0	***	***	***	***	18203
15.0	687.0	688.0	***	***	***	***	18204
15.0	722.0	732.0	7.4	2.27	6770.	2700.	803358
15.0	867.0	878.0	7.5	2.66	6680.	2380.	803359

CORE	LOGGED DEPTH cm		pH	pE	FePW ppb	MnPW ppb	LAB. ID.
15.0	1027.0	1037.0	7.3	1.78	3930.	37.	803360
15.0	1039.0	1054.0	7.4	2.46	***	2850.	803361
20.0	.1	1.0	7.1	8.03	2.	24.	803362
20.0	1.0	3.0	7.3	7.51	7.	1.	803363
20.0	3.0	5.0	7.4	4.93	7.	1940.	803364
20.0	5.0	8.0	7.3	4.32	1.	2.	803365
20.0	8.0	11.0	7.3	3.95	7.	2780.	803366
20.0	11.0	15.0	7.4	3.93	2.	2.	803367
20.0	15.0	19.0	7.3	5.44	7.	9.	803368
20.0	19.0	24.0	7.3	4.27	37.	5830.	803369
20.0	24.0	29.0	7.6	3.64	18.	17.	803370
20.0	34.0	40.0	7.4	5.98	447.	6750.	803372
20.0	40.0	49.0	7.2	5.66	50.	7220.	803373
24.0	83.0	98.0	7.8	3.88	103.	18.	803374
24.0	103.0	118.0	7.9	2.83	364.	6480.	803375
24.0	160.0	180.0	7.9	2.73	3680.	4420.	803376
24.0	230.0	255.0	8.1	2.98	640.	5830.	803377
24.0	235.0	280.0	7.8	2.56	1190.	7080.	803378
24.0	420.0	422.0	***	***	***	***	18205
24.0	428.0	430.0	***	***	***	***	18206
24.0	432.0	457.0	7.5	2.02	1140.	3030.	803379
24.0	515.0	520.0	***	***	***	***	18207
24.0	528.0	531.0	***	***	***	***	18208
24.0	546.0	549.0	***	***	***	***	18209
24.0	553.0	555.0	***	***	***	***	18210
24.0	564.0	565.0	***	***	***	***	18211
24.0	602.0	604.0	***	***	***	***	18212
24.0	644.0	669.0	7.5	1.83	5060.	4070.	803380
24.0	676.0	678.0	***	***	***	***	18213
24.0	718.0	743.0	7.5	2.00	6160.	3470.	803381
24.0	743.0	773.0	7.5	1.97	8880.	2660.	803382
24.0	905.0	920.0	7.5	2.93	6420.	4140.	803383
24.0	920.0	955.0	7.3	2.08	4270.	2430.	803384
24.0	1025.0	1050.0	7.3	2.24	13700.	3240.	803385
39.0	.1	10.0	7.5	6.47	16.	4210.	803386
39.0	10.0	16.0	7.7	3.78	31.	6010.	803387
39.0	19.0	24.0	7.4	5.88	25.	6820.	803388
39.0	24.0	29.0	7.1	7.03	***	***	803389
39.0	29.0	34.0	7.5	4.68	640.	5200.	803390
39.0	34.0	39.0	7.8	4.07	***	***	803391
39.0	39.0	44.0	7.8	3.85	917.	4830.	803392
39.0	44.0	48.0	7.9	3.90	***	***	803393
39.0	48.0	53.0	7.9	5.86	***	2780.	803394
39.0	53.0	58.0	7.4	5.95	***	***	803395
39.0	58.0	63.0	8.1	5.08	110.	2890.	803396
39.0	65.0	70.0	8.0	4.00	***	***	803397
39.0	70.0	75.0	7.9	2.88	640.	3420.	803398
39.0	75.0	80.0	7.9	3.68	***	***	802100
39.0	80.0	85.0	7.8	3.59	696.	2780.	802101
39.0	85.0	90.0	7.8	3.54	***	***	802102

CORE	LOGGED DEPTH cm	DEPTH	pH	pE	FePW ppb	MnPW ppb	LAB. ID.
39.0	90.0	95.0	7.9	2.78	806.	3470.	802103
39.0	95.0	100.0	7.9	3.83	***	***	802104
39.0	100.0	105.0	8.0	2.85	364.	2780.	802105
39.0	105.0	110.0	7.7	3.14	***	***	802106
39.0	110.0	115.0	7.8	2.63	944.	4160.	802107
39.0	115.0	120.0	7.8	5.61	***	***	802109
39.0	120.0	125.0	7.8	4.08	419.	4160.	802110
39.0	125.0	132.0	7.9	3.54	***	***	802111
39.0	135.0	140.0	7.9	3.29	1470.	2660.	802112
39.0	140.0	145.0	8.0	3.56	***	***	802113
39.0	145.0	150.0	7.9	3.20	1470.	4440.	802114
39.0	150.0	155.0	7.8	3.63	***	***	802115
39.0	155.0	160.0	8.2	4.22	502.	3590.	802116
39.0	160.0	165.0	8.2	4.56	***	***	802117
39.0	167.0	172.0	8.0	3.64	917.	5200.	802118
39.0	172.0	177.0	7.9	3.69	***	***	802119
39.0	177.0	182.0	7.8	4.83	188.	4670.	802120
39.0	182.0	187.0	7.6	5.25	***	***	802121
39.0	187.0	192.0	7.2	6.46	124.	4630.	802122
39.0	192.0	197.0	7.2	6.41	***	***	802123
39.0	197.0	202.0	7.3	6.42	152.	5550.	802124
39.0	205.0	214.0	8.2	3.36	136.	3350.	802125
39.0	214.0	223.0	8.0	2.92	1750.	3470.	802126
39.0	223.0	232.0	7.8	2.36	917.	4050.	802127
39.0	232.0	241.0	8.0	2.61	696.	3030.	802128
39.0	241.0	250.0	8.1	2.59	3370.	4280.	802129
39.0	250.0	259.0	8.1	2.61	1140.	2080.	802130
39.0	259.0	268.0	7.9	2.42	2570.	3470.	802131
40.0	.1	5.0	7.6	6.20	12.	2990.	802132
40.0	5.0	10.0	7.3	6.14	27.	3160.	802133
40.0	10.0	15.0	7.2	7.42	8.	2820.	802134
40.0	15.0	20.0	7.2	7.07	17.	1630.	802135
40.0	20.0	25.0	7.3	7.10	22.	2150.	802136
40.0	25.0	30.0	7.9	4.97	22.	3180.	802137
40.0	30.0	35.0	7.7	6.37	5.	3550.	802138
40.0	35.0	40.0	7.2	6.95	13.	3950.	802139
40.0	40.0	45.0	7.2	6.47	4.	2620.	802140
40.0	45.0	52.0	7.3	6.63	4.	3950.	802141
45.0	385.0	400.0	8.0	4.08	***	2250.	802143
45.0	400.0	412.0	7.8	2.39	***	2730.	802144
45.0	412.0	425.0	7.8	2.25	4510.	2970.	802145
45.0	425.0	440.0	7.9	2.20	1360.	2040.	802146
45.0	440.0	450.0	7.6	1.85	233.	2730.	802147
45.0	450.0	460.0	7.7	1.73	558.	2750.	802148
45.0	460.0	480.0	7.8	1.76	2350.	2970.	802149
45.0	485.0	500.0	7.6	2.25	3980.	2590.	802150
45.0	500.0	515.0	7.8	1.95	2300.	2300.	802151
45.0	515.0	525.0	7.6	2.15	5060.	1830.	802152
45.0	525.0	533.0	7.6	2.29	5340.	2210.	802153
45.0	740.0	742.0	***	***	***	***	18215

CORE	LOGGED DEPTH cm	DEPTH cm	pH	pE	FePW ppb	MnPW ppb	LAB. ID.
45.0	745.0	748.0	***	***	***	***	18214
45.0	754.0	756.0	***	***	***	***	18216
45.0	907.0	909.0	***	***	***	***	18217
45.0	924.0	926.0	***	***	***	***	18218
45.0	1148.0	1160.0	7.7	2.68	4780.	2360.	802155
45.0	1160.0	1172.0	7.8	2.53	1870.	3270.	802156
45.0	1172.0	1184.0	7.7	2.24	1410.	1370.	802157
45.0	1184.0	1196.0	7.7	2.19	2300.	112.	802158
45.0	1196.0	1202.0	***	***	1190.	1910.	802165
45.0	1202.0	1212.0	7.7	2.14	2130.	2470.	802159
45.0	1212.0	1223.0	7.6	2.44	1190.	2320.	802160
45.0	1223.0	1234.0	7.6	2.46	585.	1910.	802161
45.0	1234.0	1245.0	7.6	2.66	6690.	2470.	802162
45.0	1245.0	1256.0	7.5	2.27	1330.	1690.	802163
45.0	1256.0	1271.0	7.6	3.54	2330.	1910.	802164
50.0	128.0	130.0	***	***	***	***	98101
50.0	132.0	134.0	***	***	***	***	98102
50.0	134.0	136.0	***	***	***	***	98103
50.0	136.0	138.0	***	***	***	***	98104
50.0	138.0	140.0	***	***	***	***	98105
50.0	140.0	142.0	***	***	***	***	98106
50.0	142.0	144.0	***	***	***	***	98107
50.0	144.0	146.0	***	***	***	***	98108
50.0	146.0	148.0	***	***	***	***	98109
50.0	148.0	150.0	***	***	***	***	98110
50.0	150.0	152.0	***	***	***	***	98111
50.0	152.0	154.0	***	***	***	***	98112
50.0	156.0	158.0	***	***	***	***	98113
50.0	158.0	160.0	***	***	***	***	98114
50.0	160.0	162.0	***	***	***	***	98115
50.0	164.0	166.0	***	***	***	***	98116
50.0	166.0	167.5	***	***	***	***	98117
50.0	170.0	172.0	***	***	***	***	98118
50.0	310.0	312.0	***	***	***	***	98119
50.0	315.0	317.0	***	***	***	***	98120
50.0	320.0	322.0	***	***	***	***	98121
50.0	325.0	327.0	***	***	***	***	98122
50.0	330.0	332.0	***	***	***	***	98123
50.0	460.0	462.0	***	***	***	***	98146
50.0	465.0	467.0	***	***	***	***	98147
50.0	470.0	472.0	***	***	***	***	98148
50.0	473.0	475.0	***	***	***	***	98149
50.0	530.0	532.0	***	***	***	***	98150
50.0	535.0	537.0	***	***	***	***	98151
50.0	545.0	547.0	***	***	***	***	98152
50.0	550.0	552.0	***	***	***	***	98153
50.0	555.0	557.0	***	***	***	***	98154
50.0	718.0	720.0	***	***	***	***	98155
50.0	723.0	725.0	***	***	***	***	98156
50.0	808.0	809.0	***	***	***	***	18220

CORE	LOGGED DEPTH cm		pH	pE	FePW ppb	MnPW ppb	LAB. ID.
50.0	813.0	815.0	***	***	***	***	18219
50.0	820.0	822.0	***	***	***	***	98124
50.0	825.0	827.0	***	***	***	***	18221
50.0	830.0	832.0	***	***	***	***	98125
50.0	840.0	842.0	***	***	***	***	98126
50.0	845.0	847.0	***	***	***	***	98127
50.0	850.0	852.0	***	***	***	***	98128
50.0	935.0	937.0	***	***	***	***	98129
50.0	940.0	942.0	***	***	***	***	98130
50.0	945.0	947.0	***	***	***	***	98131
50.0	955.0	957.0	***	***	***	***	98132
50.0	965.0	967.0	***	***	***	***	98133
50.0	1045.0	1047.0	***	***	***	***	98157
50.0	1050.0	1052.0	***	***	***	***	98158
50.0	1055.0	1057.0	***	***	***	***	98159
50.0	1060.0	1062.0	***	***	***	***	98160
50.0	1065.0	1067.0	***	***	***	***	98161
50.0	1081.0	1083.0	***	***	***	***	98134
50.0	1086.0	1088.0	***	***	***	***	98135
50.0	1088.0	1090.0	***	***	***	***	98136
50.0	1090.0	1092.0	***	***	***	***	98137
50.0	1092.0	1094.0	***	***	***	***	98138
50.0	1094.0	1096.0	***	***	***	***	98139
50.0	1096.0	1098.0	***	***	***	***	98140
50.0	1101.0	1103.0	***	***	***	***	98141
50.0	1103.0	1105.0	***	***	***	***	98142
50.0	1108.0	1110.0	***	***	***	***	98143
50.0	1110.0	1112.0	***	***	***	***	98144
50.0	1112.0	1114.0	***	***	***	***	98145
53.0	41.0	48.0	7.3	7.81	8.	5290.	802166
53.0	57.0	70.0	7.4	6.97	22.	2420.	802167
53.0	85.0	100.0	8.5	3.68	237.	2390.	802168
53.0	110.0	125.0	8.0	4.58	4.	3390.	802170
53.0	133.0	144.0	7.8	5.81	10.	3600.	802171
53.0	153.0	167.0	8.1	3.95	700.	2060.	802172
53.0	173.0	185.0	8.3	2.86	183.	3620.	802173
53.0	187.0	200.0	7.9	3.12	135.	3600.	802175
53.0	215.0	227.0	7.8	2.37	233.	2360.	802176
53.0	254.0	265.0	8.2	3.49	1690.	3020.	802177
53.0	275.0	286.0	8.1	2.31	700.	2580.	802178
53.0	287.0	298.0	7.8	2.17	1770.	2300.	802179
53.0	305.0	318.0	8.2	2.54	1120.	2620.	802180
53.0	323.0	328.0	8.5	2.25	867.	2320.	802181
53.0	335.0	349.0	8.1	2.20	2660.	2210.	802182
53.0	356.0	374.0	7.7	2.32	3760.	2190.	802183
53.0	374.0	393.0	7.6	2.02	3880.	2200.	802184
53.0	393.0	416.0	7.9	2.24	4550.	2160.	802185
53.0	416.0	423.0	7.8	2.44	4790.	2230.	802186

CORE	LOGGED cm	DEPTH	LFEPW ppb	ZnPW ppb	CuPW ppb	NiPW ppb	CdPW ppb	ID
12.0	.1	.1	14.	1157.20	0	1.97	1.629	803337
12.0	.1	2.0	12.	14947.90	3.71	2.92	.604	803338
12.0	2.0	6.0	0	1120.90	4.03	7.42	.921	803339
12.0	6.0	15.0	0	1478.70	3.10	3.20	.482	803340
12.0	15.0	24.0	0	1502.90	2.95	5.28	1.727	803341
12.0	24.0	33.0	0	1048.10	2.95	4.05	.213	803342
12.0	33.0	39.0	0	39.08	6.54	8.86	.403	803343
12.0	39.0	45.0	***	***	***	***	***	803344
12.1	.1	.3	***	***	***	***	***	*122901
12.1	.1	1.0	***	***	***	***	***	122902
12.1	1.0	2.0	***	***	***	***	***	122903
12.1	2.0	3.0	***	***	***	***	***	122904
12.1	3.0	4.0	***	***	***	***	***	122905
12.1	4.0	5.0	***	***	***	***	***	122906
12.1	5.0	6.0	***	***	***	***	***	122907
12.1	6.0	7.0	***	***	***	***	***	122908
12.1	7.0	8.0	***	***	***	***	***	122909
12.1	8.0	9.0	***	***	***	***	***	122910
12.1	9.0	10.0	***	***	***	***	***	122911
12.1	11.0	13.0	***	***	***	***	***	122912
12.1	13.0	15.0	***	***	***	***	***	122913
12.1	15.0	17.0	***	***	***	***	***	122914
12.1	17.0	19.0	***	***	***	***	***	122915
12.1	19.0	21.0	***	***	***	***	***	122916
12.1	21.0	23.0	***	***	***	***	***	122917
12.1	23.0	25.0	***	***	***	***	***	122918
12.1	25.0	30.0	***	***	***	***	***	122919
12.1	30.0	35.0	***	***	***	***	***	122920
12.1	35.0	40.0	***	***	***	***	***	122921
12.1	40.0	45.0	***	***	***	***	***	122922
12.1	48.0	50.0	***	***	***	***	***	122923
15.0	.1	3.0	0	90.42	2.18	4.19	1.304	*803345
15.0	3.0	10.0	0	82.69	2.12	4.46	1.231	*803346
15.0	10.0	15.0	0	96.22	3.01	4.19	1.204	*803347
15.0	28.0	30.0	0	83.98	2.69	3.26	.967	*803348
15.0	30.0	34.0	0	47.03	4.04	3.21	2.341	*803349
15.0	34.0	40.0	0	48.53	5.51	1.09	0	803350
15.0	40.0	46.0	0	52.83	2.69	.16	.230	803351
15.0	72.0	78.0	26.	16.52	2.24	1.58	.157	803352
15.0	102.0	108.0	0	48.53	7.76	2.83	.949	803353
15.0	119.0	131.0	0	1014.70	5.26	1.63	.312	803354
15.0	256.0	269.0	4.	11.12	3.62	.37	.375	803355
15.0	413.0	425.0	458.	12.25	2.25	.47	.108	803356
15.0	475.0	478.0	***	***	***	***	***	18201
15.0	540.0	550.0	***	***	***	***	***	803357
15.0	625.0	627.0	***	***	***	***	***	18202
15.0	680.0	681.0	***	***	***	***	***	18203
15.0	687.0	688.0	***	***	***	***	***	18204
15.0	722.0	732.0	***	***	***	***	***	803358
15.0	867.0	878.0	7.	0	3.56	.57	0	803359

CORE	LOGGED DEPTH cm	LOGGED DEPTH cm	LFePW ppb	LZnPW ppb	LCuPW ppb	LNiPW ppb	LCdPW ppb	LAB. ID.
15.0	1027.0	1037.0	0	0	2.58	.32	.013	803360
15.0	1039.0	1054.0	0	28.37	4.22	.42	.099	803361
20.0	.1	1.0	0	34.88	4.44	1.59	.625	803362
20.0	1.0	3.0	0	39.12	4.66	2.71	.651	803363
20.0	3.0	5.0	0	18.47	2.20	1.54	.254	803364
20.0	5.0	8.0	0	16.49	2.30	2.20	.194	803365
20.0	8.0	11.0	0	17.34	2.96	1.64	.203	803366
20.0	11.0	15.0	0	29.79	2.74	2.10	.134	803367
20.0	15.0	19.0	0	110.13	1.70	1.85	.203	803368
20.0	19.0	24.0	0	37.99	4.00	2.35	.315	803369
20.0	24.0	29.0	0	85.23	2.14	1.95	.099	803370
20.0	34.0	40.0	61.	33.75	3.78	6.11	.082	803372
20.0	40.0	49.0	0	44.07	2.63	10.00	.422	803373
24.0	83.0	98.0	20.	10.01	.91	.39	.030	803374
24.0	103.0	118.0	115.	19.70	.80	.51	.164	803375
24.0	160.0	180.0	***	***	***	***	***	803376
24.0	230.0	255.0	63.	31.28	6.10	1.80	.250	803377
24.0	235.0	280.0	72.	2.48	1.88	.34	.103	803378
24.0	420.0	422.0	***	***	***	***	***	18205
24.0	428.0	430.0	***	***	***	***	***	18206
24.0	432.0	457.0	344.	1.67	3.95	.17	.006	803379
24.0	515.0	520.0	***	***	***	***	***	18207
24.0	528.0	531.0	***	***	***	***	***	18208
24.0	546.0	549.0	***	***	***	***	***	18209
24.0	553.0	555.0	***	***	***	***	***	18210
24.0	564.0	565.0	***	***	***	***	***	18211
24.0	602.0	604.0	***	***	***	***	***	18212
24.0	644.0	669.0	***	***	***	***	***	803380
24.0	676.0	678.0	***	***	***	***	***	18213
24.0	718.0	743.0	***	***	***	***	***	803381
24.0	743.0	773.0	584.	4.09	2.14	.17	.018	803382
24.0	905.0	920.0	420.	10.01	17.21	.51	.006	803383
24.0	920.0	955.0	358.	14.05	2.03	0	0	803384
24.0	1025.0	1050.0	418.	40.97	5.14	0	.030	803385
39.0	.1	10.0	0	0	3.98	4.12	.164	803386
39.0	10.0	16.0	***	***	***	***	***	803387
39.0	19.0	24.0	0	70.35	7.65	10.64	.246	803388
39.0	24.0	29.0	***	***	***	***	***	803389
39.0	29.0	34.0	0	25.58	4.54	2.20	.265	803390
39.0	34.0	39.0	***	***	***	***	***	803391
39.0	39.0	44.0	0	4.41	3.04	1.20	.129	803392
39.0	44.0	48.0	***	***	***	***	***	803393
39.0	48.0	53.0	0	14.32	5.61	1.03	.027	803394
39.0	53.0	58.0	***	***	***	***	***	803395
39.0	58.0	63.0	0	20.46	3.21	.98	.086	803396
39.0	65.0	70.0	***	***	***	***	***	803397
39.0	70.0	75.0	0	3.47	2.63	.42	.051	803398
39.0	75.0	80.0	***	***	***	***	***	802100
39.0	80.0	85.0	0	3.32	14.85	.76	.192	802101
39.0	85.0	90.0	***	***	***	***	***	802102

CORE	LOGGED DEPTH cm		LFePW ppb	LZnPW ppb	LCuPW ppb	LNiPW ppb	LCdPW ppb	LAB. ID.
39.0	90.0	95.0	0	11.64	3.16	.55	.073	802103
39.0	95.0	100.0	***	***	***	***	***	802104
39.0	100.0	105.0	0	9.57	2.52	.56	.077	802105
39.0	105.0	110.0	***	***	***	***	***	802106
39.0	110.0	115.0	0	11.37	3.11	.71	.046	802107
39.0	115.0	120.0	***	***	***	***	***	802109
39.0	120.0	125.0	0	44.07	2.70	.44	.046	802110
39.0	125.0	132.0	***	***	***	***	***	802111
39.0	135.0	140.0	0	3.86	4.64	.39	.091	802112
39.0	140.0	145.0	***	***	***	***	***	802113
39.0	145.0	150.0	0	10.56	2.91	.55	.164	802114
39.0	150.0	155.0	***	***	***	***	***	802115
39.0	155.0	160.0	0	14.59	3.01	.81	.046	802116
39.0	160.0	165.0	***	***	***	***	***	802117
39.0	167.0	172.0	0	4.68	3.10	1.57	.111	802118
39.0	172.0	177.0	***	***	***	***	***	802119
39.0	177.0	182.0	0	30.19	1.14	2.10	.981	802120
39.0	182.0	187.0	***	***	***	***	***	802121
39.0	187.0	192.0	0	17.80	4.05	2.17	.063	802122
39.0	192.0	197.0	***	***	***	***	***	802123
39.0	197.0	202.0	0	0	3.46	1.90	.276	802124
39.0	205.0	214.0	***	***	***	***	***	802125
39.0	214.0	223.0	***	***	***	***	***	802126
39.0	223.0	232.0	30.	302.23	7.31	1.14	.439	802127
39.0	232.0	241.0	***	***	***	***	***	802128
39.0	241.0	250.0	5.	706.32	2.05	0	.057	802129
39.0	250.0	259.0	0	0	2.44	0	.066	802130
39.0	259.0	268.0	0	284.51	4.04	0	.012	802131
40.0	.1	5.0	0	13.63	3.08	5.67	.836	802132
40.0	5.0	10.0	0	13.85	3.65	11.85	.656	802133
40.0	10.0	15.0	***	***	***	***	***	802134
40.0	15.0	20.0	68.	14.06	1.95	5.55	.567	802135
40.0	20.0	25.0	0	10.00	4.50	3.25	.755	802136
40.0	25.0	30.0	0	30.06	.81	3.07	.504	802137
40.0	30.0	35.0	0	22.70	2.61	2.71	.045	802138
40.0	35.0	40.0	0	71.68	16.04	6.58	2.019	802139
40.0	40.0	45.0	24.	49.27	4.22	5.19	.270	802140
40.0	45.0	52.0	43.	31.77	3.93	3.31	.567	802141
45.0	385.0	400.0	***	***	***	***	***	802143
45.0	400.0	412.0	0	25.13	1.35	.28	.032	802144
45.0	412.0	425.0	***	***	***	***	***	802145
45.0	425.0	440.0	266.	9.49	1.57	0	.081	802146
45.0	440.0	450.0	***	***	***	***	***	802147
45.0	450.0	460.0	***	***	***	***	***	802148
45.0	460.0	480.0	76.	7.85	1.14	0	.081	802149
45.0	485.0	500.0	144.	1.26	3.76	0	.130	802150
45.0	500.0	515.0	66.	4.55	2.43	.10	.449	802151
45.0	515.0	525.0	133.	2.09	4.71	.10	.081	802152
45.0	525.0	533.0	156.	0	3.46	.28	.278	802153
45.0	740.0	742.0	***	***	***	***	***	18215

CORE	LOGGED DEPTH cm	LFepW ppb	LZnPW ppb	LCuPW ppb	LNiPW ppb	LCdPW ppb	LAB. ID.	
45.0	745.0	748.0	***	***	***	***	***	18214
45.0	754.0	756.0	***	***	***	***	***	18216
45.0	907.0	909.0	***	***	***	***	***	18217
45.0	924.0	926.0	***	***	***	***	***	18218
45.0	1148.0	1160.0	375.	.44	2.08	.51	0	802155
45.0	1160.0	1172.0	373.	0	2.51	.63	0	802156
45.0	1172.0	1184.0	40.	0	3.29	.45	.027	802157
45.0	1184.0	1196.0	***	***	***	***	***	802158
45.0	1196.0	1202.0	0	13.78	1.03	2.36	.152	802165
45.0	1202.0	1212.0	160.	.44	2.82	.28	.032	802159
45.0	1212.0	1223.0	232.	1.26	2.56	.39	.056	802160
45.0	1223.0	1234.0	165.	0	2.90	.10	0	802161
45.0	1234.0	1245.0	349.	1.26	4.37	.51	.056	802162
45.0	1245.0	1256.0	16.	1.54	3.94	.22	.007	802163
45.0	1256.0	1271.0	21.	1.88	4.02	0	0	802164
50.0	128.0	130.0	***	***	***	***	***	98101
50.0	132.0	134.0	***	***	***	***	***	98102
50.0	134.0	136.0	***	***	***	***	***	98103
50.0	136.0	138.0	***	***	***	***	***	98104
50.0	138.0	140.0	***	***	***	***	***	98105
50.0	140.0	142.0	***	***	***	***	***	98106
50.0	142.0	144.0	***	***	***	***	***	98107
50.0	144.0	146.0	***	***	***	***	***	98108
50.0	146.0	148.0	***	***	***	***	***	98109
50.0	148.0	150.0	***	***	***	***	***	98110
50.0	150.0	152.0	***	***	***	***	***	98111
50.0	152.0	154.0	***	***	***	***	***	98112
50.0	156.0	158.0	***	***	***	***	***	98113
50.0	158.0	160.0	***	***	***	***	***	98114
50.0	160.0	162.0	***	***	***	***	***	98115
50.0	164.0	166.0	***	***	***	***	***	98116
50.0	166.0	167.5	***	***	***	***	***	98117
50.0	170.0	172.0	***	***	***	***	***	98118
50.0	310.0	312.0	***	***	***	***	***	98119
50.0	315.0	317.0	***	***	***	***	***	98120
50.0	320.0	322.0	***	***	***	***	***	98121
50.0	325.0	327.0	***	***	***	***	***	98122
50.0	330.0	332.0	***	***	***	***	***	98123
50.0	460.0	462.0	***	***	***	***	***	98146
50.0	465.0	467.0	***	***	***	***	***	98147
50.0	470.0	472.0	***	***	***	***	***	98148
50.0	473.0	475.0	***	***	***	***	***	98149
50.0	530.0	532.0	***	***	***	***	***	98150
50.0	535.0	537.0	***	***	***	***	***	98151
50.0	545.0	547.0	***	***	***	***	***	98152
50.0	550.0	552.0	***	***	***	***	***	98153
50.0	555.0	557.0	***	***	***	***	***	98154
50.0	718.0	720.0	***	***	***	***	***	98155
50.0	723.0	725.0	***	***	***	***	***	98156
50.0	808.0	809.0	***	***	***	***	***	18220

CORE	LOGGED DEPTH cm	LFEPW ppb	LZnPW ppb	LCuPW ppb	LNiPW ppb	LCdPW ppb	LAB. ID.	
50.0	813.0	815.0	***	***	***	***	18219	
50.0	820.0	822.0	***	***	***	***	98124	
50.0	825.0	827.0	***	***	***	***	18221	
50.0	830.0	832.0	***	***	***	***	98125	
50.0	840.0	842.0	***	***	***	***	98126	
50.0	845.0	847.0	***	***	***	***	98127	
50.0	850.0	852.0	***	***	***	***	98128	
50.0	935.0	937.0	***	***	***	***	98129	
50.0	940.0	942.0	***	***	***	***	98130	
50.0	945.0	947.0	***	***	***	***	98131	
50.0	955.0	957.0	***	***	***	***	98132	
50.0	965.0	967.0	***	***	***	***	98133	
50.0	1045.0	1047.0	***	***	***	***	98157	
50.0	1050.0	1052.0	***	***	***	***	98158	
50.0	1055.0	1057.0	***	***	***	***	98159	
50.0	1060.0	1062.0	***	***	***	***	98160	
50.0	1065.0	1067.0	***	***	***	***	98161	
50.0	1081.0	1083.0	***	***	***	***	98134	
50.0	1086.0	1088.0	***	***	***	***	98135	
50.0	1088.0	1090.0	***	***	***	***	98136	
50.0	1090.0	1092.0	***	***	***	***	98137	
50.0	1092.0	1094.0	***	***	***	***	98138	
50.0	1094.0	1096.0	***	***	***	***	98139	
50.0	1096.0	1098.0	***	***	***	***	98140	
50.0	1101.0	1103.0	***	***	***	***	98141	
50.0	1103.0	1105.0	***	***	***	***	98142	
50.0	1108.0	1110.0	***	***	***	***	98143	
50.0	1110.0	1112.0	***	***	***	***	98144	
50.0	1112.0	1114.0	***	***	***	***	98145	
53.0	41.0	48.0	0	89.93	3.19	9.09	.835	802166
53.0	57.0	70.0	0	113.73	4.13	7.10	1.537	802167
53.0	85.0	100.0	237.	52.29	1.13	1.87	.329	802168
53.0	110.0	125.0	0	110.33	4.35	3.87	.312	802170
53.0	133.0	144.0	0	0	4.35	4.10	.596	802171
53.0	153.0	167.0	654.	0	23.85	5.10	4.289	802172
53.0	173.0	185.0	31.	30.85	2.35	1.99	.764	802173
53.0	187.0	200.0	176.	0	1.46	1.05	.578	802175
53.0	215.0	227.0	124.	82.88	1.30	0	.099	802176
53.0	254.0	265.0	614.	11.24	2.46	.23	.072	802177
53.0	275.0	286.0	0	16.99	1.13	.99	.187	802178
53.0	287.0	298.0	216.	53.59	1.24	.76	.134	802179
53.0	305.0	318.0	336.	15.95	2.91	.46	.116	802180
53.0	323.0	328.0	254.	30.33	2.41	.41	.072	802181
53.0	335.0	349.0	577.	37.39	7.52	0	.383	802182
53.0	356.0	374.0	925.	63.27	2.41	0	.143	802183
53.0	374.0	393.0	***	***	***	***	***	802184
53.0	393.0	416.0	***	***	***	***	***	802185
53.0	416.0	423.0	***	***	***	***	***	802186

CORE	LOGGED DEPTH		HUE	VALUE	CHROMA	ZONE	CORR.	COMP.	LAB. ID.
	cm						DEPTH	DEPTH	
							cm	cm	
12.0	.1	.1	***	***	***	***	.1	***	803337
12.0	.1	2.0	***	***	***	***	.1	***	803338
12.0	2.0	6.0	***	***	***	***	2.0	***	803339
12.0	6.0	15.0	***	***	***	***	6.0	***	803340
12.0	15.0	24.0	***	***	***	***	15.0	***	803341
12.0	24.0	33.0	***	***	***	***	24.0	***	803342
12.0	33.0	39.0	***	***	***	***	33.0	***	803343
12.0	39.0	45.0	***	***	***	***	39.0	***	803344
12.1	.1	.3	***	***	***	***	.1	***	*122901
12.1	.1	1.0	***	***	***	***	.1	***	122902
12.1	1.0	2.0	***	***	***	***	1.0	***	122903
12.1	2.0	3.0	***	***	***	***	2.0	***	122904
12.1	3.0	4.0	***	***	***	***	3.0	***	122905
12.1	4.0	5.0	***	***	***	***	4.0	***	122906
12.1	5.0	6.0	***	***	***	***	5.0	***	122907
12.1	6.0	7.0	***	***	***	***	6.0	***	122908
12.1	7.0	8.0	***	***	***	***	7.0	***	122909
12.1	8.0	9.0	***	***	***	***	8.0	***	122910
12.1	9.0	10.0	***	***	***	***	9.0	***	122911
12.1	11.0	13.0	***	***	***	***	11.0	***	122912
12.1	13.0	15.0	***	***	***	***	13.0	***	122913
12.1	15.0	17.0	***	***	***	***	15.0	***	122914
12.1	17.0	19.0	***	***	***	***	17.0	***	122915
12.1	19.0	21.0	***	***	***	***	19.0	***	122916
12.1	21.0	23.0	***	***	***	***	21.0	***	122917
12.1	23.0	25.0	***	***	***	***	23.0	***	122918
12.1	25.0	30.0	***	***	***	***	25.0	***	122919
12.1	30.0	35.0	***	***	***	***	30.0	***	122920
12.1	35.0	40.0	***	***	***	***	35.0	***	122921
12.1	40.0	45.0	***	***	***	***	40.0	***	122922
12.1	48.0	50.0	***	***	***	***	48.0	***	122923
15.0	.1	3.0	5. YR	4.0	3.0	2.	25.1	12.2	*803345
15.0	3.0	10.0	5. YR	4.0	3.0	2.	28.0	16.8	*803346
15.0	10.0	15.0	5. YR	4.0	3.0	2.	35.0	22.5	*803347
15.0	28.0	30.0	5. YR	4.0	3.0	2.	53.0	38.1	*803348
15.0	30.0	34.0	10. YR	4.0	3.0	3.	55.0	41.9	*803349
15.0	34.0	40.0	10. YR	4.0	3.0	3.	59.0	45.7	803350
15.0	40.0	46.0	10. YR	4.0	3.0	3.	65.0	51.3	803351
15.0	72.0	78.0	10. YR	4.5	2.5	5.	97.0	97.4	803352
15.0	102.0	108.0	5. Y	4.0	1.5	7.	127.0	160.7	803353
15.0	119.0	131.0	5. YR	4.5	3.0	8.	144.0	186.9	803354
15.0	256.0	269.0	10. YR	4.0	2.0	11.	281.0	321.6	803355
15.0	413.0	425.0	5. Y	5.0	2.0	16.	438.0	472.8	803356
15.0	475.0	478.0	10. YR	4.0	2.0	18.	500.0	520.2	18201
15.0	540.0	550.0	5. YR	4.0	3.0	21.	565.0	599.4	803357
15.0	625.0	627.0	10. YR	4.0	2.0	27.	650.0	717.5	18202
15.0	680.0	681.0	5. YR	4.0	4.0	29.	705.0	766.7	18203
15.0	687.0	688.0	5. YR	4.0	4.0	29.	712.0	773.0	18204
15.0	722.0	732.0	5. Y	4.5	1.5	30.	747.0	809.3	803358
15.0	867.0	878.0	5. Y	4.5	1.5	34.	892.0	934.6	803359

CORE	LOGGED DEPTH cm		HUE	VALUE	CHROMA	ZONE	CORR. DEPTH cm	COMP. DEPTH cm	LAB. ID.
15.0	1027.0	1037.0	10. YR	4.0	2.0	36.	1052.0	1119.2	803360
15.0	1039.0	1054.0	10. YR	4.0	2.0	36.	1064.0	1131.8	803361
20.0	.1	1.0	***	***	***	***	.1	***	803362
20.0	1.0	3.0	***	***	***	***	1.0	***	803363
20.0	3.0	5.0	***	***	***	***	3.0	***	803364
20.0	5.0	8.0	***	***	***	***	5.0	***	803365
20.0	8.0	11.0	***	***	***	***	8.0	***	803366
20.0	11.0	15.0	***	***	***	***	11.0	***	803367
20.0	15.0	19.0	***	***	***	***	15.0	***	803368
20.0	19.0	24.0	***	***	***	***	19.0	***	803369
20.0	24.0	29.0	***	***	***	***	24.0	***	803370
20.0	34.0	40.0	***	***	***	***	34.0	***	803372
20.0	40.0	49.0	***	***	***	***	40.0	***	803373
24.0	83.0	98.0	10. YR	4.0	2.0	9.	233.0	219.8	803374
24.0	103.0	118.0	10. YR	4.0	2.0	9.	253.0	232.0	803375
24.0	160.0	180.0	5. YR	4.5	3.0	10.	310.0	288.9	803376
24.0	230.0	255.0	5. YR	4.5	3.0	12.	380.0	362.3	803377
24.0	235.0	280.0	10. YR	4.0	2.0	13.	405.0	386.2	803378
24.0	420.0	422.0	10. YR	4.0	2.0	20.	570.0	569.7	18205
24.0	428.0	430.0	5. YR	4.0	3.0	21.	578.0	576.4	18206
24.0	432.0	457.0	5. YR	4.0	3.0	21.	582.0	591.4	803379
24.0	515.0	520.0	5. Y	4.5	2.0	25.	665.0	689.4	18207
24.0	528.0	531.0	10. YR	4.0	2.0	27.	678.0	703.3	18208
24.0	546.0	549.0	10. YR	4.0	2.0	27.	696.0	724.5	18209
24.0	553.0	555.0	5. Y	4.0	1.5	28.	703.0	732.1	18210
24.0	564.0	565.0	5. Y	4.0	1.5	28.	714.0	743.8	18211
24.0	602.0	604.0	5. YR	4.0	4.0	29.	752.0	792.7	18212
24.0	644.0	669.0	5. YR	4.5	3.0	31.	794.0	858.2	803380
24.0	676.0	678.0	5. YR	4.5	3.0	31.	826.0	887.5	18213
24.0	718.0	743.0	10. YR	4.0	2.0	34.	868.0	948.4	803381
24.0	743.0	773.0	10. YR	4.0	2.0	34.	893.0	979.8	803382
24.0	905.0	920.0	10. YR	4.0	2.0	36.	1055.0	1078.4	803383
24.0	920.0	955.0	10. YR	4.0	2.0	36.	1070.0	1092.1	803384
24.0	1025.0	1050.0	10. YR	4.0	2.0	38.	1175.0	1195.7	803385
39.0	.1	10.0	5. YR	4.0	3.0	2.	10.1	23.6	803386
39.0	10.0	16.0	10. YR	4.0	3.0	3.	20.0	42.5	803387
39.0	19.0	24.0	10. YR	4.0	3.0	3.	29.0	53.7	803388
39.0	24.0	29.0	5. YR	5.0	2.0	4.	34.0	62.8	803389
39.0	29.0	34.0	10. YR	4.5	2.5	5.	39.0	75.2	803390
39.0	34.0	39.0	10. YR	4.5	2.5	5.	44.0	86.9	803391
39.0	39.0	44.0	10. YR	4.5	2.5	5.	49.0	98.6	803392
39.0	44.0	48.0	5. YR	4.5	3.0	6.	54.0	105.2	803393
39.0	48.0	53.0	5. YR	4.5	3.0	6.	58.0	106.5	803394
39.0	53.0	58.0	5. YR	4.5	3.0	6.	63.0	108.1	803395
39.0	58.0	63.0	5. YR	4.5	3.0	6.	68.0	109.7	803396
39.0	65.0	70.0	5. YR	4.5	3.0	6.	75.0	111.9	803397
39.0	70.0	75.0	5. YR	4.5	3.0	6.	80.0	113.5	803398
39.0	75.0	80.0	5. YR	4.5	3.0	6.	85.0	115.1	802100
39.0	80.0	85.0	5. YR	4.5	3.0	6.	90.0	116.7	802101
39.0	85.0	90.0	5. YR	4.5	3.0	6.	95.0	118.3	802102

CORE	LOGGED DEPTH cm		HUE	VALUE	CHROMA	ZONE	CORR. DEPTH cm	COMP. DEPTH cm	LAB. ID.
39.0	90.0	95.0	5. YR	4.5	3.0	6.	100.0	119.9	802103
39.0	95.0	100.0	5. YR	4.5	3.0	6.	105.0	121.5	802104
39.0	100.0	105.0	5. YR	4.5	3.0	6.	110.0	123.1	802105
39.0	105.0	110.0	5. YR	4.5	3.0	6.	115.0	124.7	802106
39.0	110.0	115.0	5. YR	4.5	3.0	6.	120.0	126.3	802107
39.0	115.0	120.0	5. YR	4.5	3.0	6.	125.0	127.9	802109
39.0	120.0	125.0	5. YR	4.5	3.0	6.	130.0	129.5	802110
39.0	125.0	132.0	5. YR	4.5	3.0	6.	135.0	131.5	802111
39.0	135.0	140.0	5. YR	4.5	3.0	6.	145.0	134.4	802112
39.0	140.0	145.0	5. YR	4.5	3.0	6.	150.0	136.0	802113
39.0	145.0	150.0	5. YR	4.5	3.0	6.	155.0	137.6	802114
39.0	150.0	155.0	5. YR	4.5	3.0	6.	160.0	139.2	802115
39.0	155.0	160.0	5. YR	4.5	3.0	6.	165.0	140.8	802116
39.0	160.0	165.0	5. YR	4.5	3.0	6.	170.0	142.4	802117
39.0	167.0	172.0	5. Y	4.0	1.5	7.	177.0	146.9	802118
39.0	172.0	177.0	5. Y	4.0	1.5	7.	182.0	151.6	802119
39.0	177.0	182.0	5. Y	4.0	1.5	7.	187.0	156.3	802120
39.0	182.0	187.0	5. Y	4.0	1.5	7.	192.0	160.9	802121
39.0	187.0	192.0	5. Y	4.0	1.5	7.	197.0	165.6	802122
39.0	192.0	197.0	5. Y	4.0	1.5	7.	202.0	170.3	802123
39.0	197.0	202.0	5. Y	4.0	1.5	7.	207.0	174.9	802124
39.0	205.0	214.0	5. YR	4.5	3.0	8.	215.0	190.6	802125
39.0	214.0	223.0	5. YR	4.5	3.0	8.	224.0	205.9	802126
39.0	223.0	232.0	10. YR	4.0	2.0	9.	233.0	224.8	802127
39.0	232.0	241.0	5. YR	4.5	3.0	10.	242.0	253.2	802128
39.0	241.0	250.0	5. YR	4.5	3.0	10.	251.0	281.7	802129
39.0	250.0	259.0	10. YR	4.0	2.0	11.	260.0	299.1	802130
39.0	259.0	268.0	10. YR	4.0	2.0	11.	269.0	307.8	802131
40.0	.1	5.0	10. YR	4.5	2.0	1.	.1	2.9	802132
40.0	5.0	10.0	10. YR	4.5	2.0	1.	5.0	8.5	802133
40.0	10.0	15.0	5. YR	4.0	3.0	2.	10.0	17.6	802134
40.0	15.0	20.0	5. YR	4.0	3.0	2.	15.0	29.0	802135
40.0	20.0	25.0	5. YR	4.0	3.0	2.	20.0	40.3	802136
40.0	25.0	30.0	10. YR	4.0	3.0	3.	25.0	55.4	802137
40.0	30.0	35.0	5. YR	5.0	2.0	4.	30.0	59.9	802138
40.0	35.0	40.0	5. YR	5.0	2.0	4.	35.0	63.1	802139
40.0	40.0	45.0	5. YR	5.0	2.0	4.	40.0	66.3	802140
40.0	45.0	52.0	10. YR	4.5	2.5	5.	45.0	70.4	802141
45.0	385.0	400.0	10. YR	4.0	2.0	13.	385.0	381.3	802143
45.0	400.0	412.0	10. YR	4.0	2.0	13.	400.0	390.7	802144
45.0	412.0	425.0	5. Y	4.5	2.0	14.	412.0	400.1	802145
45.0	425.0	440.0	5. Y	4.5	2.0	14.	425.0	416.8	802146
45.0	440.0	450.0	5. YR	4.5	2.0	15.	440.0	438.0	802147
45.0	450.0	460.0	5. Y	5.0	2.0	16.	450.0	448.4	802148
45.0	460.0	480.0	5. Y	5.0	2.0	16.	460.0	461.3	802149
45.0	485.0	500.0	5. YR	4.0	4.0	17.	485.0	488.8	802150
45.0	500.0	515.0	5. YR	5.0	2.0	19.	500.0	534.2	802151
45.0	515.0	525.0	5. YR	5.0	2.0	19.	515.0	540.6	802152
45.0	525.0	533.0	5. YR	5.0	2.0	19.	525.0	545.2	802153
45.0	740.0	742.0	10. YR	4.0	2.0	27.	740.0	724.1	18215

CORE	LOGGED DEPTH cm	DEPTH	HUE	VALUE	CHROMA	ZONE	CORR. DEPTH cm	COMP. DEPTH cm	LAB. ID.
45.0	745.0	748.0	5. Y	4.0	1.5	28.	745.0	730.3	18214
45.0	754.0	756.0	5. Y	4.0	1.5	28.	754.0	737.4	18216
45.0	907.0	909.0	10. YR	4.0	2.0	32.	907.0	894.3	18217
45.0	924.0	926.0	5. YR	4.0	4.0	33.	924.0	912.6	18218
45.0	1148.0	1160.0	5. Y	4.0	1.0	37.	1148.0	1134.7	802155
45.0	1160.0	1172.0	5. Y	4.0	1.0	37.	1160.0	1138.7	802156
45.0	1172.0	1184.0	10. YR	4.0	2.0	38.	1172.0	1143.4	802157
45.0	1184.0	1196.0	10. YR	4.0	2.0	38.	1184.0	1150.9	802158
45.0	1196.0	1202.0	10. YR	4.0	2.0	38.	1196.0	1156.6	802165
45.0	1202.0	1212.0	10. YR	4.0	2.0	38.	1202.0	1161.6	802159
45.0	1212.0	1223.0	10. YR	4.0	2.0	38.	1212.0	1168.2	802160
45.0	1223.0	1234.0	10. YR	4.0	2.0	38.	1223.0	1175.1	802161
45.0	1234.0	1245.0	10. YR	4.0	2.0	38.	1234.0	1182.0	802162
45.0	1245.0	1256.0	10. YR	4.0	2.0	38.	1245.0	1188.9	802163
45.0	1256.0	1271.0	10. YR	4.0	2.0	38.	1256.0	1197.0	802164
50.0	128.0	130.0	5. YR	4.5	3.0	6.	128.0	138.6	98101
50.0	132.0	134.0	5. Y	5.5	1.5	7.	132.0	143.8	98102
50.0	134.0	136.0	5. Y	5.5	1.5	7.	134.0	145.8	98103
50.0	136.0	138.0	5. Y	5.5	1.5	7.	136.0	147.8	98104
50.0	138.0	140.0	5. Y	5.5	1.5	7.	138.0	149.8	98105
50.0	140.0	142.0	5. Y	5.5	1.5	7.	140.0	151.8	98106
50.0	142.0	144.0	5. Y	5.5	1.5	7.	142.0	153.8	98107
50.0	144.0	146.0	5. Y	5.5	1.5	7.	144.0	155.8	98108
50.0	146.0	148.0	5. Y	5.5	1.5	7.	146.0	157.8	98109
50.0	148.0	150.0	5. Y	5.5	1.5	7.	148.0	159.8	98110
50.0	150.0	152.0	5. Y	5.5	1.5	7.	150.0	161.8	98111
50.0	152.0	154.0	5. Y	5.5	1.5	7.	152.0	163.8	98112
50.0	156.0	158.0	5. Y	5.5	1.5	7.	156.0	167.8	98113
50.0	158.0	160.0	5. Y	5.5	1.5	7.	158.0	169.8	98114
50.0	160.0	162.0	5. Y	5.5	1.5	7.	160.0	171.8	98115
50.0	164.0	166.0	5. Y	5.5	1.5	7.	164.0	175.8	98116
50.0	166.0	167.5	5. Y	5.5	1.5	7.	166.0	176.9	98117
50.0	170.0	172.0	5. YR	4.5	3.0	8.	170.0	178.4	98118
50.0	310.0	312.0	5. YR	4.5	3.0	10.	310.0	265.5	98119
50.0	315.0	317.0	5. YR	4.5	3.0	10.	315.0	270.6	98120
50.0	320.0	322.0	5. YR	4.5	3.0	10.	320.0	275.7	98121
50.0	325.0	327.0	5. YR	4.5	3.0	10.	325.0	280.8	98122
50.0	330.0	332.0	5. YR	4.5	3.0	10.	330.0	285.9	98123
50.0	460.0	462.0	5. Y	4.5	2.0	14.	460.0	403.1	98146
50.0	465.0	467.0	5. Y	4.5	2.0	14.	465.0	407.1	98147
50.0	470.0	472.0	5. Y	4.5	2.0	14.	470.0	411.2	98148
50.0	473.0	475.0	5. Y	4.5	2.0	14.	473.0	413.6	98149
50.0	530.0	532.0	5. Y	5.0	2.0	16.	530.0	448.3	98150
50.0	535.0	537.0	5. Y	5.0	2.0	16.	535.0	453.4	98151
50.0	545.0	547.0	5. Y	5.0	2.0	16.	545.0	463.5	98152
50.0	550.0	552.0	5. Y	5.0	2.0	16.	550.0	468.6	98153
50.0	555.0	557.0	5. Y	5.0	2.0	16.	555.0	473.7	98154
50.0	718.0	720.0	5. Y	4.5	1.5	23.	718.0	637.9	98155
50.0	723.0	725.0	5. Y	4.5	1.5	23.	723.0	642.9	98156
50.0	808.0	809.0	10. YR	4.0	2.0	27.	808.0	722.5	18220

CORE	LOGGED DEPTH cm		HUE	VALUE	CHROMA	ZONE	CORR. DEPTH cm	COMP. DEPTH cm	LAB. ID.
50.0	813.0	815.0	5. Y	4.0	1.5	28.	813.0	729.7	18219
50.0	820.0	822.0	5. Y	4.0	1.5	28.	820.0	737.1	98124
50.0	825.0	827.0	5. Y	4.0	1.5	28.	825.0	742.3	18221
50.0	830.0	832.0	5. Y	4.0	1.5	28.	830.0	747.6	98125
50.0	840.0	842.0	5. Y	4.0	1.5	28.	840.0	758.1	98126
50.0	845.0	847.0	5. Y	4.0	1.5	28.	845.0	763.3	98127
50.0	850.0	852.0	5. YR	4.0	4.0	29.	850.0	767.8	98128
50.0	935.0	937.0	5. YR	4.5	3.0	31.	935.0	839.4	98129
50.0	940.0	942.0	5. YR	4.5	3.0	31.	940.0	844.0	98130
50.0	945.0	947.0	5. YR	4.5	3.0	31.	945.0	848.5	98131
50.0	955.0	957.0	5. YR	4.5	3.0	31.	955.0	857.6	98132
50.0	965.0	967.0	5. YR	4.5	3.0	31.	965.0	866.8	98133
50.0	1045.0	1047.0	10. YR	4.0	2.0	34.	1045.0	943.8	98157
50.0	1050.0	1052.0	10. YR	4.0	2.0	34.	1050.0	952.0	98158
50.0	1055.0	1057.0	10. YR	4.0	2.0	34.	1055.0	960.3	98159
50.0	1060.0	1062.0	10. YR	4.0	2.0	34.	1060.0	968.5	98160
50.0	1065.0	1067.0	10. YR	4.0	2.0	34.	1065.0	976.8	98161
50.0	1081.0	1083.0	10. YR	4.0	2.0	34.	1081.0	1003.2	98134
50.0	1086.0	1088.0	5. Y	4.0	1.0	35.	1086.0	1010.8	98135
50.0	1088.0	1090.0	5. Y	4.0	1.0	35.	1088.0	1013.8	98136
50.0	1090.0	1092.0	5. Y	4.0	1.0	35.	1090.0	1016.9	98137
50.0	1092.0	1094.0	5. Y	4.0	1.0	35.	1092.0	1019.9	98138
50.0	1094.0	1096.0	10. YR	4.0	2.0	36.	1094.0	1023.0	98139
50.0	1096.0	1098.0	10. YR	4.0	2.0	36.	1096.0	1026.6	98140
50.0	1101.0	1103.0	10. YR	4.0	2.0	36.	1101.0	1035.4	98141
50.0	1103.0	1105.0	10. YR	4.0	2.0	36.	1103.0	1038.9	98142
50.0	1108.0	1110.0	10. YR	4.0	2.0	36.	1108.0	1047.8	98143
50.0	1110.0	1112.0	10. YR	4.0	2.0	36.	1110.0	1051.3	98144
50.0	1112.0	1114.0	10. YR	4.0	2.0	36.	1112.0	1054.8	98145
53.0	41.0	48.0	10. YR	4.0	3.0	3.	51.0	41.3	802166
53.0	57.0	70.0	5. YR	5.0	2.0	4.	67.0	61.5	802167
53.0	85.0	100.0	10. YR	4.5	2.5	5.	95.0	81.2	802168
53.0	110.0	125.0	10. YR	4.5	2.5	5.	120.0	97.6	802170
53.0	133.0	144.0	5. YR	4.5	3.0	6.	143.0	130.2	802171
53.0	153.0	167.0	5. Y	4.0	1.5	7.	163.0	165.1	802172
53.0	173.0	185.0	5. YR	4.5	3.0	8.	183.0	200.4	802173
53.0	187.0	200.0	10. YR	4.0	2.0	9.	197.0	220.3	802175
53.0	215.0	227.0	10. YR	4.0	2.0	9.	225.0	233.3	802176
53.0	254.0	265.0	5. YR	4.5	3.0	10.	264.0	256.2	802177
53.0	275.0	286.0	5. YR	4.5	3.0	10.	285.0	269.2	802178
53.0	287.0	298.0	5. YR	4.5	3.0	10.	297.0	276.7	802179
53.0	305.0	318.0	5. YR	4.5	3.0	10.	315.0	288.5	802180
53.0	323.0	328.0	10. YR	4.0	2.0	11.	333.0	296.9	802181
53.0	335.0	349.0	10. YR	4.0	2.0	11.	345.0	306.0	802182
53.0	356.0	374.0	5. YR	4.5	3.0	12.	366.0	352.8	802183
53.0	374.0	393.0	10. YR	4.0	2.0	13.	384.0	389.8	802184
53.0	393.0	416.0	5. Y	4.5	2.0	14.	403.0	409.0	802185
53.0	416.0	423.0	5. YR	4.5	2.0	15.	426.0	421.7	802186

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