



Note: H = Hole, T = Type, Sec = Section, Impor = Importance, A = Abundant, A- = Somewhat abundant, C+ = Very common, C = Common, C- = Somewhat common, T = Trace, Blank box = not observed.

Sample number								Impor	Size	Composition														Fossils								Sediment or Rock Name	Comments										
Leg	Site	H	Core	T	Sec	cm	mbsf	Described by	Major lithology	Med-coarse sand	Fine sand	siLight size	Clay size	Quartz	Feldspar	Clay	Rock Fragments	Volcanic Glass	amphibole	Glaucinite	Phosphate	Dolomite	Carbonate	Micrite	Opaque	framboid	Nannofossils	Foraminifers	Diatoms	Radiolarians	Silicoflagellates	Sponge Spicules	Fish remains	Peloids/pellets	Other								
170	1041	A	1	H	1	6	0.06	OMS	X					C	C+	A	C	A	T	T	T							T	C	C	C							Clayey siLight with diatoms					
170	1041	A	1	H	1	70	0.70	JM	X					C	C+	A	C	A	T	T	T																		Medium olive green silty clay				
170	1041	A	1	H	3	107	4.07	MM	X					C	A	C	A	C-	T	C	T					C-			T	T									Olive green silty clay with glauconite				
170	1041	A	1	H	3	117	4.17	MM	X					A	C	C	C	C-			A					C+													Dark gray olive green glauconite sand				
170	1041	A	1	H	5	84	6.84	MM	X					C-	A	A	C	C-	A	T	T	C-									T									Light olive green clayey silt			
170	1041	A	2	H	1	101	8.41	NL	X					T	C	A	T	C-	A	C	C-		T	T						C-									Olive green silty clay				
170	1041	A	2	H	2	40	9.30	NL	X					T	C	A	C-	T	A	C	T	T	T		T	C-	T	T	C+	T									Yellowish olive green silty clay with diatoms	Rock fragments are tephra. Other is euhedral zircon crystal. Diatom tests filled with framboids.			
170	1041	A	2	H	4	57	12.47	NL	X					C	A	C+	C-	C-	A	C-	T					T	T												Greenish brown crystal-vitric ash	Rock fragments are tephra; glass is clear			
170	1041	A	2	H	4	61	12.51	NL	X					T	A	C	T	T	T	T	A					T			T	T										Light greenish gray vitric ash	Volcanic glass is clear, minor amount brown		
170	1041	A	2	H	5	15	13.55	NL	X					T	C-	A	C+	T	T	C	A					T	T	C-	C-											Light olive green vitric ash	May be flow-in: looks like a mixture of ash (2H-4, 61) and olive green silty clay (2H-1, 101). Rock fragments are tephra.		
170	1041	A	3	X	1	60	14.90	NL	X					T	C	A	C-	C-	A	C+	C-		T	T			T	C-												Dark olive green silty clay, Firm	Pollen; rock fragments are tephra		
170	1041	A	3	X	2	39	16.19	NL	X					T	C	A	C-	C-	A	T	T					T	T	C-													Yellowish olive green silty clay, Firm	Diatoms filled with framboids. Rock fragments are tephra. Glass is clear, minor glass is brown	
170	1041	A	3	X	3	30	17.60	NL	X						C	A	C-	C-	A	T	T					T	T			C-											Olive green silty clay, Firm	Rock fragments are tephra	
170	1041	A	3	X	CC	3	20.68	NL	X					T	A	C	C	A	C	C+	C-	T	C-		T			T	T	C-	T										Light gray silty sand	Rock fragments are tephra	
170	1041	A	4	X	1	47	23.87	NL	X					T	C	A	C-	C-	A	T	C-		T				T	C-													Dark olive green silty clay	Rock fragments are tephra	
170	1041	A	4	X	1	75	24.15	NL	X					T	C	A	T	T	T	C-	A	T					C	C+													Dark gray vitric ash with framboids	Rock fragments are tephra. Glass mostly clear, tephra brown or green	
170	1041	A	5	X	1	23	32.63	NL	X					T	C	A	C-	C-	A	C	C-		T	T			T	T	C-												Olive green silty clay, Firm	Rock fragments are tephra. Diatom, foraminifer tests filled with framboids	
170	1041	A	5	X	CC	24	34.05	NL	X					T	A	A	C-	C-	A	C	T					T	T			T	T										Dark olive green clayey silt	T other = wood/plant material	
170	1041	A	6	X	1	110	36.50	N	X					T	A	C	C-	C-	A	C	C-		T	T	T	C-		T	T	C-	T										Olive green clayey siltstone	Rock fragments are tephra; pollen	
170	1041	A	6	X	2	23	37.13	N	X					T	C	A	T	T	A	C		T	T				T	T	T	C-												Dark olive green silty claystone	Other = biotite. Rock fragments = tephra
170	1041	A	6	X	4	30	40.20	N	X					T	A	C	C-	T	T	C	A		T				C-	T														Greenish gray vitric ash	Glass is clear + minor brown glass. Rock fragments are tephra
170	1041	A	6	X	CC	26	41.13	N	X					C+	A	T	C+	C	T	A	T	T	C-	T	T		T	C-	T													Dark gray sandy siltstone with framboids	
170	1041	A	7	X	2	20	43.20	N	X					T	C	A	C-	T	A	C	C-		T	T		T	T			T	C-											Dark greenish gray silty claystone	Rock fragments are tephra, polycrystalline quartz. Glass is clear, brown. Other=biotite
170	1041	A	7	X	3	28	44.78	N	X					T	A	C	C-	C	C	C+	A	T					T	C-														Brownish green crystal-lithic vitric ash	
170	1041	A	7	X	5	120	48.70	N	X					T	C	A	A	C	C-	A	C+	C-	T	T			T	T	T	C-												Olive green sandy clayey siltstone	

Sample number								Impor	Size		Composition											Fossils						Sediment or Rock Name	Comments												
Leg	Site	H	Core	T	Sec	cm	mbsf		Described by	Major lithology	Minor lithology	Med.-coarse sand	Fine sand	SLight size	Clay size	Quartz	Feldspar	Clay	Rock Fragments	Volcanic Glass	amphibole	Glaucanite	Phosphate	Dolomite	Carbonate	Micrite	Opaque			framboid	Nannofossils	Foraminifers	Diatoms	Radiolarians	Silicoflagellates	Sponge Spicules	Fish remains	Peloids/pellets	Other		
170	1041	A	7	X	CC	15	50.54	N		X	T	C	A	A	C	C	C	C	C	T	T	T	T	T	T	T	T												Dark greenish gray silty claystone		
170	1041	A	8	X	1	120	51.80	MM		X	T	A	C	C	C	C	C	C	T	T	T	T	T	T	T	T			C	C	T	T							Olive green clayey siltstone with siliceous microfossils		
170	1041	A	8	X	3	9	53.69	MM		X		C	A	C	C	A	T		C	C	T	T	T	T	T	T			C	T	T								Dark olive green silty claystone		
170	1041	A	8	X	5	98	57.13	MM	X			C	A	C	T	A	C	C	T	T	T	T	T	T	T	T			T	T	C	C	C						Dark olive green silty claystone with ash		
170	1041	A	9	X	1	73	60.33	JM		X	C	C	A	C	T	C	A	T	T	T	T	T	T	T	T	T			C	T	T	T	T						Light gray clayey vitric ash		
170	1041	A	9	X	4	35	64.45	MM	X			A	C	C	T	C	C	T	T	T	T	T	T	T	T	T				C	C	C							Olive green clayey siltstone		
170	1041	A	9	X	6	32	67.42	MM	X			C	A	C	T	A	C	T	T	T	T	T	T	T	T	T			T	C		C							Olive green silty claystone		
170	1041	A	10	X	1	9	68.69	MM		X		A	C				T		C	A	T	T	T	T	T													Light green gray limestone			
170	1041	A	10	X	1	68	69.28	HT	X		C	C	A	C	C	A	C	T	T	T	T	T	T	T	T	T			C		C	T	T						Olive green sandy silty claystone		
170	1041	A	10	X	5	112	75.72	OMS	X		T	C	A	C	C	A	C	C	T	T	T	T	T	T	T	T			T	T	C		T	T					Dark olive green silty claystone		
170	1041	A	11	X	3	87	81.54	OMS	X		T	C	A	T	C	A	C	C	C	T	T	T	T	T	T	T			T	T	T	T	C	T					Dark olive green silty claystone		
170	1041	A	11	X	5	62	84.29	HT		X		T	A	C	T	A	T	T	T	T	T	T	T	A	C	C	C	T	T	T	T	T	T	T					Light brown calcareous claystone	Other= pollen; T aragonite?	
170	1041	A	12	X	1	25	88.15	NL	X		T	C	A	C	C	A	T	C	T	T	T	T	T	T	T	T			T	C		T	T						Dark olive green silty claystone	Rock fragments are tephra	
170	1041	A	12	X	2	48	89.88	NL		X		C	A	T	T	A	T	C	T	T	T	T	T	T	T	T			T	T	C		T	T					Olive brown claystone	Rock fragments are tephra	
170	1041	A	12	X	3	109	91.99	NL		X	C	A	C	C	C	T	C	A	T	T	T	T	T	T	T	T			T	T	T	T	T					Yellow brown vitric ash	Rock fragments are tephra. Some diatoms are filled with framboids		
170	1041	A	12	X	6	42	95.82	NL	X		T	C	A	T	C	A	T	C	T	T	T	T	T	T	T	T				T		T	T						Olive green silty claystone	Euhedral amphibole and feldspar. Some diatoms framboid-filled.	
170	1041	A	13	X	1	40	97.90	NL	X		T	C	A	C	T	A	C	C	T	T	T	T	T	T	T	T				T		T						Olive green silty claystone.			
170	1041	A	13	X	2	27	99.09	NL	X		T	C	A	C	C	A	T	C	T	T	T	T	T	T	T	T			T		T		T	T					Olive green silty claystone		
170	1041	A	13	X	2	38	99.20	NL		X	C	A	C	T	C	C	C	A	C		T	T	T	T	T	T			C									Light brownish gray amphibole-vitric ash with framboids	Euhedral amphibole, feldspar; some plagioclase is zoned.		
170	1041	A	14	X	3	84	110.79	NL	X			T	A	T	C	A	T	C	T	T	T	T	T	T	T	T			C	T	T								Olive green claystone		
170	1041	A	14	X	4	21	111.66	NL		X		C	A	T	C	A	T	T	T	T	T	T	T	T	T	T			T	C	T	C							Brownish green claystone with foraminifers	Burrow fill	
170	1041	A	15	X	2	32	117.91	NL	X		T	C	A	C	C	A	C	C	T	T	T	T	T	T	T	T				T		T							Dark olive green silty claystone	Euhedral amphibole, plagioclase	
170	1041	A	15	X	5	23	121.25	NL	X			C	A	T	T	A	C	C	T	T	T	T	T	T	T	T			T	T	T									Dark olive green claystone	
170	1041	A	16	X	2	99	128.89	HT	X		T	C	A	C	C	A	T	C	T	T	T	T	T	T	T	T			T	C	T	C	C						Grayish green silty claystone	Possible pyroxene (T)	
170	1041	A	16	X	6	22	132.25	MM	X			C	A	C		A	C	C	T	T	T	T	T	T	T	T				C	T	C	T						Claystone with vitric ash		
170	1041	A	17	X	1	48	136.38	JM		X		A	C	T	C									A		T													Dolomitic limestone (fill)		

Sample number								Impor	Size	Composition														Fossils	Sediment or Rock Name	Comments													
Leg	Site	H	Core	T	Sec	cm	mbsf			Described by	Major lithology	Minor lithology	Med.-coarse sand	Fine sand	SLight size	Clay size	Quartz	Feldspar	Clay	Rock Fragments	Volcanic Glass	amphibole	Glaucosite				Phosphate	Dolomite	Carbonate	Micrite	Opaque	Framboid	Nannofossils	Foraminifers	Diatoms	Radiolarians	Silicoflagellates	Sponge Spicules	Fish remains
170	1041	A	17	X	2	32	137.10	JM	X				C	A	C	C	C	T	C			T	A			C	T	T	T	T							Claystone		
170	1041	A	18	X	1	31	145.81	JM	X				C	A	C	C	C	T	C			T	A			C												Calcite cemented crystal vitric tuff	
170	1041	A	18	X	3	68	148.70	OMS	X				C	A	C	C	A	C			C	T	T	T		T	C	T	T	T								Dark olive green silty claystone	
170	1041	B	1	R	1	49	155.49	JM	X				T	A	T	A	T	C			T	C				C	C	T	C	T	T							Dark brown green calcareous claystone	
170	1041	B	2	R	1	2	164.62	MM		X			A	A	C	C	C		A			T				T	T										Crystal-vitric ash (hydrate host)	Ash cemented by gas hydrate	
170	1041	B	2	R	1	90	165.50	OMS	X				C	A	T	C	A	T	C			T	T			T	C	T	T	T	T							Dark olive green claystone	
170	1041	B	2	R	5	90	170.16	OMS	X				C	A	T	C	A	C			T	T				C	T	T	T	T								Dark olive green silty claystone	
170	1041	B	3	R	3	67	176.85	JM	X				T	C	A	C	T	A	T	C		T	T	T		C	T	T	T	T								Dark olive green silty claystone	Clear and brown glass
170	1041	B	3	R	7	39	181.41	JM	X				C	A	C	T	A	C			T	T	T	T		T	C	T	T	T								Dark olive green silty claystone	
170	1041	B	4	R	1	50	184.30	NL	X				T	C	A	C	T	A	T			T	T	T		C	C	T	C		T	T	T	T			Olive green claystone	Framboid clusters to 16 microns; framboids inside glauconite grains and diatoms.	
170	1041	B	4	R	3	84	187.64	NL		X			C	A	T	T	A	T	C			T	T	T		T	C	T	C		T						Greenish brown claystone with nannofossils, diatoms	Burrow fill. Rock fragments are tephra, polycrystalline quartz	
170	1041	B	4	R	6	84	191.25	NL	X				C	C	A	C	C	A	C	C		T	T	T		T	C	T	C		T						Olive green silty claystone	Rock fragments are tephra with feldspar microlites + rare quartz. Other=zircon?	
170	1041	B	4	R	7	16	191.77	NL		X			T	C	A	T	T	A	T	C		T	T	T		T	T	T	C		T						Dark olive green claystone	Some diatoms are filled with framboids	
170	1041	B	5	R	3	22	196.42	NL	X				T	C	A	C	T	A	T	C		T	T	T		T	C	T	C		T	C	T				Olive green claystone with nannofossils	Other=chitonous fragment 74 microns across	
170	1041	B	5	R	5	48	199.68	NL	X				T	C	A	C	C	A	T	C		T	T	C		T	T	C		T	T	T						Dark olive green silty claystone	Other=pollen grain
170	1041	B	6	R	2	41	204.81	NL		X			T	C	A	C	T	A	T	C		T	T	T		T	C	T	C		T	T	T				Greenish brown silty claystone with ash	Other=pollen	
170	1041	B	6	R	2	60	205.00	NL	X				T	C	A	C	C	A	T	C		T	T	T		T	C	T	T		T						Olive green ashy claystone		
170	1041	B	6	R	5	30	207.70	NL	X				T	C	A	T	C	A	T	C		T	T	T		T	T	T	C		T						Dark olive green claystone		
170	1041	B	7	R	1	23	212.93	NL		X			C	A	T	T	A	T	C			T	T	T		T	C	C	C		C						Brownish green claystone with nannofossils and diatoms	Burrow fill. Some diatom tests filled with framboids. Other = pollens. Some brown glass.	
170	1041	B	7	R	3	20	214.90	NL	X				C	A	T	T	A	T	C			T	T			C	T	C		T							Olive green ashy claystone	Euhedral zoned plagioclase. Rock fragment is polycrystalline quartz. Diatoms filled with framboids.	
170	1041	B	7	R	7	18	219.46	NL	X				C	A	C	C	A	T	C			T	T	T		T	C		C		T	T	T				Dark olive green silty claystone	Rock fragment = pumice. Other = pollen	
170	1041	B	8	R	2	62	224.25	NL	X				T	C	A	C	T	A	C			T	T	T		T		C		T	T						Olive green claystone		
170	1041	B	8	R	4	12	225.99	NL	X				C	A	T	T	A	T	C			T	T			T	T	T	C		T						Dark olive green claystone	Framboid clots >60 microns. Rock fragments = polycrystalline quartz	
170	1041	B	9	R	2	45	233.85	JM	X				C	A	C		A	T				T	T			C	T	T	T	T								Dark gray green claystone	Other=high birefringence, high relief unknown mineral
170	1041	B	9	R	3	5	234.94	OMS		X			A	T	C	C		A				T				T	C										Light gray crystal-vitric ash		
170	1041	B	10	R	3	72	244.51	HT	X				C	A	T	C	A	C				T	C			C	T	C	T	C	T							Dark olive green diatomaceous claystone	

Sample number								Impor	Size		Composition													Fossils								Sediment or Rock Name	Comments							
Leg	Site	H	Core	T	Sec	cm	mbsf		Described by	Major lithology	Minor lithology	Med.-coarse sand	Fine sand	S/Light size	Clay size	Quartz	Feldspar	Clay	Rock Fragments	Volcanic Glass	Amphibole	Glaucinite	Phosphate	Dolomite	Carbonate	Micrite	Opaque	Framboid	Nannofossils	Foraminifers	Diatoms			Radiolarians	Silicoflagellates	Sponge Spicules	Fish remains	Peloids/pellets	Other	
170	1041	B	11	R	2	89	253.29	HT	X																													Light yellowish green clayey limestone		
170	1041	B	11	R	1	31	251.51	JM	X																													Dark olive green claystone		
170	1041	B	11	R	4	30	255.70	JM	X																													Medium olive green diatomaceous claystone		
170	1041	B	12	R	1	60	261.50	OMS	X																													Olive green clayey siltstone with diatoms		
170	1041	B	12	R	3	74	263.78	JM	X																													Olive green diatomaceous claystone		
170	1041	B	12	R	5	107	267.00	JM	X																													Dark gray ashy sandy siltstone.		
170	1041	B	13	R	3	59	274.09	OMS	X																													Olive green ashy siltstone		
170	1041	B	14	R	3	25	282.96	JM	X																													Olive green calcareous silty claystone		
170	1041	B	15	R	1	14	290.04	JM	X																													Light green limestone	Other = aragonite	
170	1041	B	16	R	1	83	300.33	NL	X																													Dark olive green silty claystone	Other = pollen (T); zeolite Phillipsite (T+)	
170	1041	B	16	R	3	2	301.72	NL	X																													Light brown limestone with glauconite laminae	Hard clast. Other = dolomite (T), chiton (T)	
170	1041	B	16	R	3	83	302.53	NL	X																													Dark gray ashy claystone		
170	1041	B	16	R	4	136	304.56	NL	X																													Dark greenish gray clayey sandy siltstone	Partial dissolution of sponge spicules. Other = zeolite Phillipsite (T)	
170	1041	B	17	R	1	17	309.37	NL	X																													Light brownish gray limestone	Phosphate is in-situ, not transported	
170	1041	B	17	R	1	70	309.90	NL	X																													Dark greenish gray clayey siltstone	Rock fragments are tephra	
170	1041	B	17	R	3	134	313.54	NL	X																													Dark gray sandy siltstone	Rock fragments are tephra, polycrystalline quartz	
		B	17	R	CC	6	314.08	NL	X																													Light brownish gray limestone		
170	1041	B	18	R	1	123	320.03	NL	X																														Dark gray sandy siltstone	Rock fragments are tephra. Phosphate grains have framboids.
170	1041	B	19	R	1	15	328.55	NL	X																														Brown sandy silty claystone layer	Other = pollen. Some glass is brown, most clear.
170	1041	B	19	R	1	120	329.60	NL	X																														Dark greenish gray clayey siltstone	Opaque = pyrite cubes?
170	1041	B	19	R	4	22	332.55	NL	X																														Olive gray clayey siltstone	Other = zircon. Rock fragments = tephra
170	1041	B	20	R	2	64	339.06	NL	X																														Dark greenish gray silty sandstone	Other = pollen and spores. Some phosphate may be authigenic. Euhedral to subhedral zoned plagioclase. Rock fragments are tephra.
170	1041	B	20	R	3	120	341.12	NL	X																														Dark brown layer of vitric-crystal-lithic tuff.	Other = pollen and spores. Framboids in spicules, spores, and diatoms. Euhedral zoned plagioclase. Rock fragments are tephra.
170	1041	B	21	R	2	30	349.40	NL	X																														Dark greenish gray sandy siltstone	Other=pollen & spores, some pyritized; also zeolite phillipsite (T) Some spicules pyritized. Signs of silica dissolution in embayed spicules.
170	1041	B	22	R	2	59	358.15		X																														Olive green calcareous claystone	

Sample number								Impor	Size			Composition										Fossils							Sediment or Rock Name	Comments									
Leg	Site	H	Core	T	Sec	cm	mbsf		Described by	Major lithology	Minor lithology	Med.-coarse sand	Fine sand	S/Light size	Clay size	Quartz	Feldspar	Clay	Rock Fragments	Volcanic Glass	amphibole	Glaucanite	Phosphate	Dolomite	Carbonate	Micrite	Opaque	framboid			Nannofossils	Foraminifers	Diatoms	Radiolarians	Silicoflagellates	Sponge Spicules	Fish remains	Peloids/pellets	Other
170	1041	B	22	R	4	126	361.48	OMS	X		C-	A	C	C+	T	C		C-	T	T	T	T					T	C	T	T							Dark olive green clayey siltstone with diatoms		
170	1041	B	23	R	1	9	366.89	JM		X		C	A	T								C+	A	A		T		T									Very light greenish gray dolomitic limestone		
170	1041	B	23	R	3	30	370.10	JM	X			C	A	C-	T	A	T	C-			T	T	T					C-	T								Dark olive green silty claystone		
170	1041	B	24	R	1	43	376.83	OMS	X			T	A	T	T	A		A	T	T	T					T	T	T	T	T							Olive green ashy claystone		
170	1041	B	24	R	2	54	378.44	HT		X	C-	A	C+	C-	C+	C+		C			C	C-			T		T	C-	T								Olive green dolomitic clayey siltstone		
170	1041	B	25	R	1	128	387.28	OMS		X		C	A	C	C	C+	C+	T	T	C-	C-				C-	T	T	T										Dolomitic clayey siltstone	
170	1041	B	25	R	2	55	388.05	OMS	X			T	A	T	T	A		C-			C-				T		T	T	T	T	T							Dolomitic claystone	
170	1041	C	1	R	1	20	395.20	JM		X	C-	C	A	C-	C-	C	T	A	T			C-				T		T										Medium green gray crystal-vitric ash	
170	1041	C	1	R	3	38	397.13	OMS	X			T	C	A	T	C-	A		C	T	T	C-						C	T									Dark olive green claystone	
170	1041	C	2	R	3	20	407.30	MM	X			C	A	C-	C-	A		C-			C-				T	T	C+	T										Dark olive green claystone with diatoms	
170	1041	C	3	R	2	22	414.89	NL	X		C	C+	C-	C	C-	C+	C	T	C		T	T	C-	T	T	C-	T	T	T	T	C-	T	T	T				Greenish gray silty sandstone	In sparsely granule-pebble sandstone. Other=spores. Tests are framboid-filled, 1 spicule has glauconite fill. Both clear and brown volcanic glass.
170	1041	C	3	R	2	61	415.28	NL		X		T	C	A	C-	C	C+	C-		T	T	T	C	T	T		T										Greenish gray silty claystone.	Other = pyroxene (T). Spicules are pitted; tests are framboidal.	