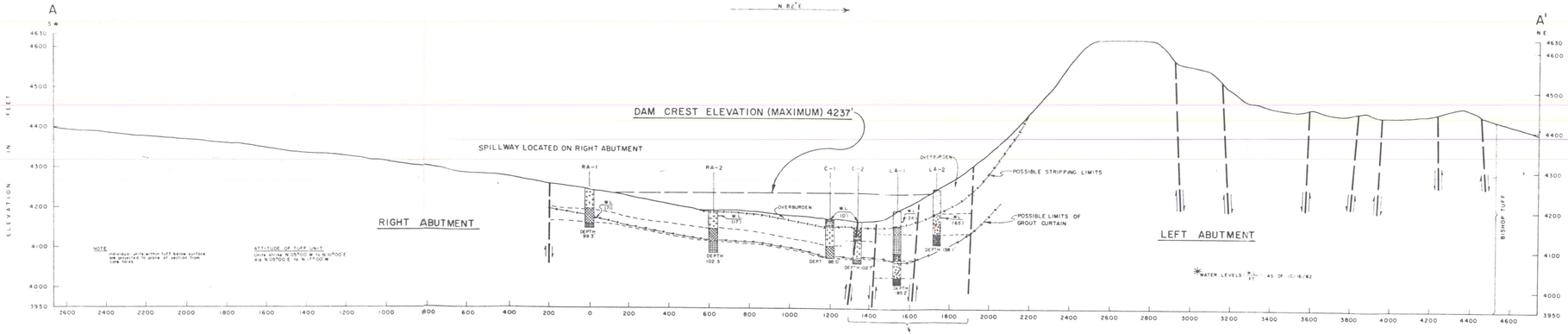

GEOLOGIC SECTION A–A'
(LOOKING UPSTREAM)
SCALE IN FEET
HORIZONTAL — 1" = 200'
VERTICAL — 1" = 100'

Figure 7 (to FER-153). Logs of exploratory borings and cross section along proposed dam axis in Fish Slough. Refer to figures 2a and 3 for location of borings. From CDWR (1964).

CORE HOLE RA-1

WATER TEST PRESSURE P.S.I.	PERMEABILITY* GPM	FT/YR	ROCK DESCRIPTION	ELEVATION	DEPTH
	NO TESTS			4250.0	0.0
				4237.5	12.5
15	33	878	TUFF (UNIT ONE): GRAY, FRESH, MODERATELY HARD, MASSIVE, SEVERELY JOINTED, WELDED, JOINTS OPEN AND SPACED WIDELY AND APPEAR TO PINCH OUT AT DEPTH	4225.0	25.0
15	65	4203			
20	81	3821			
30	70	2723		4212.5	37.5
30	47	(845)			
47	57	(726)			
55	52	1920		4200.0	50.0
	NO TESTS				
			TUFF (UNIT TWO): PINK, FRESH, SOFT, POORLY CONSOLIDATED, MASSIVE, CLOSELY JOINTED	4187.5	62.5
30	NO TESTS		WATER TESTS IN INTERVAL FROM 61.0 TO 99.3 UNSUCCESSFULL DUE TO FAILURE OF PACKER TO SEAT PROPERLY	4175.0	75.0
45	NO TESTS		ASH AND PUMICE (UNIT THREE): GRAY, FRESH, VERY SOFT, MASSIVE, UN-CONSOLIDATED, PUMICEOUS VOLCANIC ASH AND DUST, COHESIONLESS	4162.5	87.5
			HOLE DEPTH 99.3	4149.7	99.3

Location of RA-1 not shown on figures 2a and 3.

CORE HOLE RA-2

WATER TEST PRESSURE P.S.I.	PERMEABILITY* GPM	FT/YR	ROCK DESCRIPTION	ELEVATION	DEPTH
				4185.0	0.0
10	51	5609		4172.5	12.5
15	66	6072	TUFF (UNIT ONE): GRAY, FRESH, MODERATELY HARD, MASSIVE, JOINTED, WELDED, CLOSELY SPACED JOINTS		
	NO TESTS			4160.0	25.0
30	7	383		4147.5	37.5
34	8	298			
50	41	1600		4135.0	50.0
45	54	811			
60	35	729	TUFF (UNIT TWO): PINK, FRESH, SOFT, POORLY CONSOLIDATED, MASSIVE, COARSE-GRAINED, PUMICEOUS	4122.5	62.5
30	NO TESTS			4110.0	75.0
45	NO TESTS		ASH AND PUMICE (UNIT THREE): GRAY, FRESH, VERY SOFT, UNCONSOLIDATED, MASSIVE, VOLCANIC ASH AND PUMICE	4097.5	87.5
60	NO TESTS		WATER TESTS IN INTERVAL FROM 85.2 TO 102.5 UNSUCCESSFULL DUE TO INABILITY TO PROPERLY SEAT THE PACKER IN SOFT ROCK		
			HOLE DEPTH 102.5	4075.0	100.0
				4077.5	102.5

CORE HOLE C-1

WATER TEST PRESSURE P.S.I.	PERMEABILITY* GPM	FT/YR	ROCK DESCRIPTION	ELEVATION	DEPTH
				4173.0	0.0
	NO TESTS		PEAT: DARK BROWN TO BLACK, SOFT, SPONGY, SATURATED	4160.5	12.5
			SAND: LIGHT GRAY, VERY FINE - GRAINED		
			GRAVEL: LIGHT TAN, FINE, SAND AND PEA GRAVEL	4148.0	25.0
30	60	2840	TUFF (UNIT ONE): PINK, FRESH TO MODERATELY WEATHERED, MASSIVE, CONSOLIDATED TO PALE REDDISH BROWN, CLOSELY JOINTED AND FRACTURED	4135.5	37.5
40	76	4330			
			(NO WATER TESTS PERFORMED IN UPPER 23 OF HOLE - OVERBURDEN AND WEATHERED ROCK)	4123.0	50.0
50	86	3243			
				4110.5	62.5
62	4	87	TUFF (UNIT TWO): PINK, FRESH TO SLIGHTLY WEATHERED, MASSIVE, POORLY CONSOLIDATED, SOFT TO UNCONSOLIDATED IN BOTTOM OF HOLE		
78	3	78		4098.5	75.0
75	NO TESTS		(WATER TEST IN INTERVAL FROM 71.6 TO 95.0 UNSUCCESSFULL DUE TO IMPROPERLY SEATED PACKER AND EXCESSIVE PRESSURE)	4085.5	87.5
45	33	554			
				4078.0	95.0
			HOLE DEPTH 95.0		

CORE HOLE C-2

WATER TEST PRESSURE P.S.I.	PERMEABILITY* GPM	FT/YR	ROCK DESCRIPTION	ELEVATION	DEPTH
				4172.0	0.0
	NO TESTS		SOIL: LIGHT GRAY TO TAN, FINE-GRAINED, SILTY, SANDY SOIL, FINE PEA GRAVEL OCCURS FROM 8.5 TO 10.5 DEPTH	4159.5	12.5
			BRECCIA: LIGHT GRAY TO BROWN, HARD, DENSE, GLASSY VOLCANIC BRECCIA, VERY BRITTLE, CONTAINS OPEN CAVITIES	4147.0	25.0
			CLAY (?): BROWN, SOFT, UNCONSOLIDATED TO MODERATELY DENSE CLAY, PROBABLE WEATHERED ZONE OF VOLCANIC BRECCIA	4134.5	37.5
				4122.0	50.0
50	52	921	TUFF (UNIT ONE): GRAY, TAN, ORANGE - BROWN, MODERATELY HARD, CONSOLIDATED, MASSIVE, CLOSELY JOINTED, FRACTURED		
36	18	36		4109.5	62.5
			(NO WATER TESTS PERFORMED IN UPPER 45 OF HOLE - OVERBURDEN)	4097.0	75.0
				4084.5	87.5
83	3	43	TUFF (UNIT TWO): PINK TO PALE RED-BROWN, MASSIVE, UNCONSOLIDATED	4072.0	100.0
			HOLE DEPTH 102	4069.3	102.7

CORE HOLE LA-1

WATER TEST PRESSURE P.S.I.	PERMEABILITY* GPM	FT/YR	ROCK DESCRIPTION	ELEVATION	DEPTH
				4200.0	0.0
			SOIL: TAN TO PALE GRAY-BROWN, SOFT, DRY, VERY FINE-GRAINED, SILTY, SANDY, WIND-BROWN DEPOSIT OVER BURDEN	4187.5	12.5
			(NO WATER TESTS PERFORMED DURING DRILLING IN INTERVAL FROM 0.0 TO 15.0)	4175.0	25.0
				4162.5	37.5
			TUFF (UNIT TWO): PINK, SOFT, POORLY CONSOLIDATED, COARSE-GRAINED, MASSIVE, CUT BY CLOSELY SPACED JOINTS	4150.0	50.0
			ASH (UNIT THREE): WHITE TO GRAY-WHITE, VERY FINE GRAINED, SOFT, PUMICEOUS VOLCANIC ASH AND DUST, UNCONSOLIDATED	4137.5	62.5
NO TESTS				4125.0	75.0
			TSFE INCLINOMETER HOLE RESULTS FOR PERMEABILITY DETERMINATION (UPPER 30 TO 60')	4112.5	87.5
				4100.0	100.0
			PUMICE AND ASH: WHITE TO PALE GRAY, FINE TO COARSE-GRAINED, GRANULAR, UNCONSOLIDATED PUMICE AND FINE ASH	4087.5	112.5
				4075.0	125.0
3	29	598	TUFF (UNIT FOUR): WHITE TO PALE GRAY, FINE-GRAIN, CONSOLIDATED, AND MASSIVE, SOMEWHAT JOINTED, BUT MORE CONSOLIDATED WITH INCREASING DEPTH	4062.5	137.5
45	39	5,513			
65	57	653		4050.0	150.0
				4037.5	162.5
90	71	607	ASH AND DUST (UNIT FIVE): WHITE, GRAY-WHITE, VERY FINE, VOLCANIC ASH AND DUST	4025.0	175.0
			HOLE DEPTH 85.2	4014.8	185.2

CORE HOLE LA-2

WATER TEST PRESSURE P.S.I.	PERMEABILITY* GPM	FT/YR	ROCK DESCRIPTION	ELEVATION	DEPTH
				4250.0	0.0
			SOIL: TAN TO PALE GRAY-BROWN, DRY, COHESIONLESS, SILTY, SANDY SOIL, CONTAINS HIGH PERCENTAGE OF VOLCANIC ASH AND DUST	4237.5	12.5
				4225.0	25.0
			BELOW APPROXIMATELY 45 DEPTH ASH, DUST AND PUMICE PREDOMINATE	4212.5	37.5
				4200.0	50.0
				4187.5	62.5
30	91+	NO TESTS	TUFF (UNIT FOUR): PALE BROWN TO TAN, FRACTURED, BRITTLE, MASSIVE, MODERATELY HARD, CONSOLIDATED, FINE TO COARSE-GRAINED	4175.0	75.0
30	106+	NO TESTS	BELOW 90 DEPTH ROCK BECOMES LESS CONSOLIDATED AND VERY FINE-GRAINED, CLOSELY JOINTED	4162.5	87.5
				4150.0	100.0
45	102+	NO TESTS	PUMICE AND ASH (UNIT FIVE): PALE BROWN TO TAN, FRACTURED, BRITTLE, MASSIVE, MODERATELY HARD, CONSOLIDATED, FINE TO COARSE-GRAINED PUMICE AND ASH	4137.5	112.5
				4125.0	125.0
			(NO WATER TESTS PERFORMED, PACKER WOULD NOT SEAT AND ...)	4111.9	138
			HOLE DEPTH 138		

FOUNDATION CORE HOLE LOGS

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