

# Reservoir Report

## Reservoir No. 2 - New Pond2

### Pond Data

Bottom LxW = 150.0 x 200.0 ft Side slope = 3.0:1 Bottom elev. = 1312.50 ft Depth = 1.50 ft

### Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	1312.50	30,000	0	0
0.08	1312.58	30,158	2,256	2,256
0.15	1312.65	30,316	2,268	4,524
0.23	1312.73	30,474	2,280	6,803
0.30	1312.80	30,633	2,292	9,095
0.38	1312.88	30,793	2,303	11,398
0.45	1312.95	30,952	2,315	13,714
0.53	1313.03	31,112	2,327	16,041
0.60	1313.10	31,273	2,339	18,381
0.68	1313.18	31,434	2,352	20,732
0.75	1313.25	31,595	2,364	23,096
0.82	1313.33	31,757	2,376	25,471
0.90	1313.40	31,919	2,388	27,859
0.97	1313.48	32,082	2,400	30,259
1.05	1313.55	32,245	2,412	32,672
1.13	1313.63	32,408	2,424	35,096
1.20	1313.70	32,572	2,437	37,533
1.28	1313.78	32,736	2,449	39,982
1.35	1313.85	32,901	2,461	42,443
1.43	1313.93	33,066	2,474	44,917
1.50	1314.00	33,231	2,486	47,403

SCANNED

### Culvert / Orifice Structures

	[A]	[B]	[C]	[D]
Rise in	= 24.0	0.0	0.0	0.0
Span in	= 24.0	0.0	0.0	0.0
No. Barrels	= 2	0	0	0
Invert El. ft	= 1312.50	0.00	0.00	0.00
Length ft	= 25.0	0.0	0.0	0.0
Slope %	= 0.30	0.00	0.00	0.00
N-Value	= .013	.000	.000	.000
Orif. Coeff.	= 0.60	0.00	0.00	0.00
Multi-Stage	= n/a	No	No	No

### Weir Structures

	[A]	[B]	[C]	[D]
Crest Len ft	= 15.00	0.00	0.00	0.00
Crest El. ft	= 1312.50	0.00	0.00	0.00
Weir Coeff.	= 3.33	0.00	0.00	0.00
Weir Type	= Rect	---	---	---
Multi-Stage	= No	No	No	No

Exfiltration Rate = 0.00 in/hr/sqft Tailwater Elev. = 0.00 ft

Note: All outflows have been analyzed under inlet and outlet control.

### Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	Civ D cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Total cfs
0.00	0	1312.50	0.00	---	---	---	0.00	---	---	---	---	0.00
0.08	2,256	1312.58	0.06	---	---	---	1.02	---	---	---	---	1.08
0.15	4,524	1312.65	0.23	---	---	---	2.90	---	---	---	---	3.13
0.23	6,803	1312.73	0.48	---	---	---	5.33	---	---	---	---	5.81
0.30	9,095	1312.80	0.80	---	---	---	8.21	---	---	---	---	9.01
0.38	11,398	1312.88	1.17	---	---	---	11.47	---	---	---	---	12.64
0.45	13,714	1312.95	1.57	---	---	---	15.08	---	---	---	---	16.65
0.53	16,041	1313.03	2.00	---	---	---	19.00	---	---	---	---	21.00
0.60	18,381	1313.10	2.47	---	---	---	23.21	---	---	---	---	25.68
0.68	20,732	1313.18	2.94	---	---	---	27.70	---	---	---	---	30.64
0.75	23,096	1313.25	3.44	---	---	---	32.44	---	---	---	---	35.88
0.82	25,471	1313.33	3.93	---	---	---	37.43	---	---	---	---	41.36
0.90	27,859	1313.40	4.45	---	---	---	42.65	---	---	---	---	47.10
0.97	30,259	1313.48	4.97	---	---	---	48.09	---	---	---	---	53.06
1.05	32,672	1313.55	5.48	---	---	---	53.75	---	---	---	---	59.23
1.13	35,096	1313.63	6.00	---	---	---	59.60	---	---	---	---	65.60
1.20	37,533	1313.70	6.51	---	---	---	65.66	---	---	---	---	72.17
1.28	39,982	1313.78	7.01	---	---	---	71.91	---	---	---	---	78.93
1.35	42,443	1313.85	7.50	---	---	---	78.35	---	---	---	---	85.85
1.43	44,917	1313.93	7.97	---	---	---	84.97	---	---	---	---	92.94
1.50	47,403	1314.00	8.42	---	---	---	91.76	---	---	---	---	100.19