

WDID: XXXXXX_221031 (DOUBLE JACK'S VARRA RESERVOIR)

DIVISION: 1

DISTRICT: 5

WATER COMMISSIONERS: Shera Summerford

OWNER: Varra Companies Incorporated

PERSON RESPONSIBLE FOR SUBMITTING LINED GRAVEL PIT PERFORMANCE EVALUATION: Jay C. Davenport, P.E.

PERSONS RESPONSIBLE FOR SUBMITTING WATER ACCOUNTING ADMINISTRATION DATA: Ashley Moffatt, P.E., Leonard Rice Engineers, Inc.

WATER YEAR: 2022

DESCRIPTION: Monthly physical water accounting for determining groundwater seepage into a lined gravel pit reservoir (DOUBLE JACK'S VARRA RESERVOIR) to evaluate liner performance as required by the State Engineer Guidelines for Lining Criteria for Gravel Pits - 1999.

Month	RESERVOIR STAGE		INFLOWS			OUTFLOWS			TOTAL INFLOW	TOTAL OUTFLOW	RESERVOIR VOLUME CHANGE	Estimated Net Inflow (excluding groundwater)	Actual Reservoir Volume Change	Calculated Groundwater Seepage into Reservoir	Allowable Groundwater Seepage for a Lined Gravel Pit	
	Water Surface Elevation (ft)	Calculated Reservoir Volume	Diversions	Direct & Indirect Precipitation	Groundwater	Releases	Evaporation	Groundwater							Design Standard	Performance Standard
Oct-16	0.00	0.00							0.00	0.00	0.00	0.00	0.00	0.00	9.83	29.49
Nov-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	10.16	30.47
Dec-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	10.16	30.47
Jan-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	9.50	28.51
Feb-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	10.16	30.47
Mar-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	9.83	29.49
Apr-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	10.16	30.47
May-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	9.83	29.49
Jun-22	4746.14	0.07	0.00	0.23	-0.07	0.00	0.09		0.16	0.09	0.07	0.14	0.07	-0.07	10.16	30.47
Jul-22	4746.39	0.17	0.00	1.17	-0.87	0.00	0.20		0.30	0.20	0.10	0.97	0.10	-0.87	10.16	30.47
Aug-22	4746.39	0.17	0.00	1.11	-0.92	0.00	0.19		0.19	0.19	0.00	0.92	0.00	-0.92	10.16	30.47
Sep-22	4746.70	0.30	0.00	1.64	-1.36	0.00	0.15		0.28	0.15	0.13	1.49	0.13	-1.36	9.83	29.49
Oct-22	4746.99	0.44	0.00	0.45	-0.19	0.00	0.12		0.26	0.12	0.14	0.33	0.14	-0.19	10.16	30.47
Water Year Totals			0.00	4.60	-3.41	0.00	0.75	0.00						-3.41	119.94	359.76

Notes:

All values shown are end of month data and are in acre-feet (AF) and are rounded to the nearest hundredth AF unless otherwise indicated.

The Initial Liner Test was completed on September 13, 2022 and the results of that test indicate the reservoir liner meets the Design Standard.

Leonard Rice Engineers is submitting the required water allocation accounting separately.

Prepared By Jay C. Davenport, P.E.

11/28/22