



Project Title: Eastlands Farm house **Job no.** 1894 **Date** May-25

ATTENUATION STORAGE DESIGN USING FEH 22 RAINFALL DATA

CLIMATE CHANGE FACTOR **1.45** Area of catchment (sq.m) **261** Max outflow **2.00** lit/sec

RAINFALL DEPTH MM FOR DIFFERENT DURATION STORMS USING FEH 22 DATA														
Duration (hrs)	1 year	2 year	5 year	10 year	20 year	30 year	50 year	75 year	100 year	150 year	200 year	500 year	1000 year	10000 year
0.25	9.67	11.86	16.82	20.79	24.69	27.12	30.16	32.67	34.52	37.31	39.37	46.75	53.65	86.13
0.50	12.57	15.20	21.74	26.68	32.07	35.21	39.32	42.73	45.25	48.98	51.79	61.92	71.44	116.55
1.00	15.92	18.85	26.78	33.13	39.74	43.78	49.01	53.35	56.54	61.26	64.80	77.65	89.80	147.51
2.00	23.40	26.20	35.29	42.40	49.79	54.36	60.35	65.40	69.18	74.89	79.29	96.11	112.40	179.55
4.00	31.16	34.35	44.60	52.69	61.26	66.57	73.78	80.13	85.09	92.89	99.12	123.18	144.57	219.27
6.00	35.41	39.11	50.08	58.84	68.28	74.34	82.77	90.47	96.63	106.58	114.49	143.52	167.24	245.60
10.00	40.60	44.85	56.81	66.54	77.52	84.81	95.58	105.91	114.27	127.53	137.65	171.46	197.08	280.02
24.00	49.98	54.40	68.41	80.29	94.51	104.81	121.15	136.60	148.52	165.75	178.07	216.60	244.79	334.33
36.00	55.68	59.80	74.88	87.80	103.59	115.00	133.23	150.15	162.97	181.15	194.05	234.04	263.23	355.42
48.00	60.76	64.47	80.52	94.24	111.03	123.05	141.98	159.40	172.51	191.07	204.20	244.96	274.75	368.60
60.00	65.73	68.88	85.85	100.31	117.67	129.88	148.65	165.89	178.96	197.59	210.84	252.17	282.40	377.54
72.00	70.54	73.07	90.93	106.04	123.80	136.05	154.48	171.45	184.40	202.97	216.27	257.90	288.38	384.40
84.00	75.23	77.10	95.82	111.52	129.57	141.81	159.80	176.42	189.20	207.65	220.92	262.68	293.29	389.96
96.00	79.85	81.04	100.57	116.81	135.10	147.29	164.81	181.05	193.60	211.89	225.10	266.86	297.51	394.62
Permitted Discharge from site:					0.002	cu.m/h	=	2.0	Lit/sec	=	7200	lit/hour		

INFLOW VOLUME (cu.m)														
Duration (hrs)	1 year	2 year	5 year	10 year	20 year	30 year	50 year	75 year	100 year	150 year	200 year	500 year	1000 year	10000 year
0.25	2.52	3.10	4.39	5.43	6.45	7.08	7.87	8.53	9.01	9.74	10.27	12.20	14.00	22.48
0.50	3.28	3.97	5.67	6.96	8.37	9.19	10.26	11.15	11.81	12.78	13.52	16.16	18.65	30.42
1.00	4.16	4.92	6.99	8.65	10.37	11.43	12.79	13.92	14.76	15.99	16.91	20.27	23.44	38.50
2.00	6.11	6.84	9.21	11.07	13.00	14.19	15.75	17.07	18.06	19.55	20.69	25.08	29.34	46.86
4.00	8.13	8.97	11.64	13.75	15.99	17.37	19.26	20.91	22.21	24.24	25.87	32.15	37.73	57.23
6.00	9.24	10.21	13.07	15.36	17.82	19.40	21.60	23.61	25.22	27.82	29.88	37.46	43.65	64.10
10.00	10.60	11.71	14.83	17.37	20.23	22.14	24.95	27.64	29.83	33.28	35.93	44.75	51.44	73.09
24.00	13.05	14.20	17.86	20.95	24.67	27.35	31.62	35.65	38.76	43.26	46.48	56.53	63.89	87.26
36.00	14.53	15.61	19.54	22.92	27.04	30.01	34.77	39.19	42.53	47.28	50.65	61.09	68.70	92.77
48.00	15.86	16.83	21.02	24.60	28.98	32.12	37.06	41.60	45.02	49.87	53.30	63.94	71.71	96.21
60.00	17.16	17.98	22.41	26.18	30.71	33.90	38.80	43.30	46.71	51.57	55.03	65.82	73.71	98.54
72.00	18.41	19.07	23.73	27.68	32.31	35.51	40.32	44.75	48.13	52.98	56.45	67.31	75.27	100.33
84.00	19.63	20.12	25.01	29.11	33.82	37.01	41.71	46.05	49.38	54.20	57.66	68.56	76.55	101.78
96.00	20.84	21.15	26.25	30.49	35.26	38.44	43.01	47.25	50.53	55.30	58.75	69.65	77.65	103.00

INFLOW VOLUME - OUTFLOW VOLUME - (cu.m)														
Duration (hrs)	1 year	2 year	5 year	10 year	20 year	30 year	50 year	75 year	100 year	150 year	200 year	500 year	1000 year	10000 year
0.25	2.39	2.97	4.26	5.30	6.31	6.95	7.74	8.40	8.88	9.61	10.14	12.07	13.87	22.35
0.50	3.02	3.71	5.41	6.70	8.11	8.93	10.00	10.89	11.55	12.52	13.26	15.90	18.39	30.16
1.00	3.63	4.40	6.47	8.13	9.85	10.90	12.27	13.40	14.23	15.47	16.39	19.74	22.92	37.98
2.00	5.06	5.79	8.17	10.02	11.95	13.14	14.71	16.02	17.01	18.50	19.65	24.04	28.29	45.82
4.00	6.04	6.88	9.55	11.66	13.90	15.29	17.17	18.83	20.12	22.16	23.78	30.06	35.64	55.14
6.00	6.11	7.07	9.94	12.23	14.69	16.27	18.47	20.48	22.09	24.68	26.75	34.33	40.52	60.97
10.00	5.38	6.49	9.61	12.15	15.01	16.92	19.73	22.42	24.61	28.06	30.71	39.53	46.22	67.87
24.00	0.52	1.67	5.33	8.43	12.14	14.83	19.09	23.13	26.24	30.73	33.95	44.00	51.36	74.73
36.00	-4.26	-3.18	0.75	4.12	8.24	11.22	15.98	20.40	23.74	28.49	31.86	42.29	49.91	73.97
48.00	-9.20	-8.23	-4.04	-0.46	3.92	7.06	12.00	16.55	19.97	24.81	28.24	38.88	46.65	71.15
60.00	-14.16	-13.34	-8.91	-5.14	-0.61	2.58	7.48	11.98	15.39	20.25	23.71	34.50	42.39	67.22
72.00	-19.17	-18.51	-13.85	-9.91	-5.27	-2.07	2.74	7.16	10.54	15.39	18.86	29.73	37.68	62.74
84.00	-24.21	-23.73	-18.84	-14.74	-10.03	-6.84	-2.14	2.20	5.53	10.35	13.81	24.71	32.70	57.93
96.00	-29.27	-28.96	-23.86	-19.62	-14.85	-11.67	-7.10	-2.86	0.42	5.19	8.64	19.54	27.54	52.88
PEAK VOL	6.11	7.07	9.94	12.23	15.01	16.92	19.73	23.13	26.24	30.73	33.95	44.00	51.36	74.73

