Water-Data Report 2011

10308785 Leviathan Mine Pit Drain near Markleeville, CA

Carson River Basin

LOCATION.--Lat 38°42′15″, long 119°39′28″ referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.22, T.10 N., R.21 E., Alpine County, CA, Hydrologic Unit 16050201, 2.2 mi north of Highway 89, and 6.5 mi east of Markleeville.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,100 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 0.0883 ft^3/s, Apr. 20, 2011; no flow Nov. 10, to Dec. 11, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 0.0883 ft^3/s, Apr. 20; minimum daily, 0.0008 ft^3/s, several days in October and November.

10308785 Leviathan Mine Pit Drain near Markleeville, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e0.0009	0.0008	0.0009	0.0015	0.0020	0.0026	0.0413	0.0793	0.0348	0.0185	0.0122	0.0076
2	e0.0009	0.0010	0.0010	0.0016	0.0020	0.0026	0.0501	0.0780	0.0332	0.0185	0.0118	0.0069
3	e0.0009	e0.0010	0.0010	0.0015	0.0020	0.0025	0.0562	0.0777	0.0332	0.0181	0.0118	0.0072
4	e0.0009	0.0009	0.0011	0.0015	0.0021	0.0024	0.0598	0.0758	0.0319	0.0177	0.0119	0.0068
5	0.0009	0.0011	0.0012	0.0015	0.0021	0.0029	0.0689	0.0755	0.0311	0.0173	0.0117	0.0062
6	0.0009	e0.0013	0.0012	0.0015	0.0021	0.0045	0.0765	0.0750	0.0309	0.0171	0.0115	0.0058
7	0.0009	0.0014	0.0012	0.0016	0.0030	0.0043	0.0819	0.0743	0.0302	0.0172	0.0112	0.0055
8	0.0009	0.0016	0.0013	0.0016	0.0038	0.0030	0.0802	0.0737	0.0291	0.0171	0.0113	0.0057
9	0.0008	0.0014	0.0013	0.0015	0.0027	0.0034	0.0769	0.0716	0.0279	0.0169	0.0114	0.0057
10	0.0009	0.0014	0.0015	0.0015	0.0028	0.0056	0.0735	0.0694	0.0277	0.0168	0.0116	0.0063
11	0.0009	0.0011	0.0020	0.0015	0.0030	0.0078	0.0734	0.0674	0.0278	0.0165	0.0113	0.0057
12	0.0008	0.0010	0.0021	0.0015	0.0031	0.0094	0.0741	0.0648	0.0268	0.0163	0.0111	0.0050
13	0.0009	0.0010	0.0021	0.0015	0.0037	0.0102	0.0750	0.0647	0.0250	0.0163	0.0110	0.0051
14	0.0009	0.0010	0.0017	0.0015	0.0032	0.0109	0.0732	0.0652	0.0246	0.0161	0.0111	0.0053
15	0.0009	0.0010	0.0016	0.0015	0.0029	e0.0137	0.0755	0.0622	0.0251	0.0161	0.0111	0.0053
16	0.0009	0.0010	0.0016	0.0015	0.0036	e0.0169	0.0801	0.0601	0.0254	0.0157	0.0108	0.0051
17	0.0009	0.0010	0.0016	0.0015	0.0032	e0.0201	0.0835	0.0587	0.0242	0.0149	0.0105	0.0045
18	0.0009	0.0011	0.0016	0.0015	0.0032	0.0235	0.0856	0.0561	0.0236	0.0147	0.0107	0.0037
19	0.0008	0.0011	0.0017	0.0016	0.0033	0.0252	0.0862	0.0521	0.0231	0.0144	0.0108	0.0039
20	0.0009	0.0011	0.0020	0.0018	0.0025	0.0280	0.0883	0.0496	0.0224	0.0144	0.0107	0.0038
21	0.0008	0.0011	0.0020	0.0019	0.0026	0.0284	0.0882	0.0493	0.0220	0.0145	0.0104	0.0037
22	0.0008	0.0010	0.0020	0.0020	e0.0026	0.0291	0.0881	0.0483	0.0216	0.0142	0.0101	0.0035
23	0.0008	0.0011	0.0020	0.0020	0.0026	0.0319	0.0871	0.0461	0.0217	0.0137	0.0100	0.0034
24	0.0009	0.0010	0.0019	0.0020	0.0027	0.0326	0.0855	0.0440	0.0213	0.0132	0.0100	0.0040
25	0.0008	0.0010	0.0018	0.0020	0.0037	0.0313	0.0848	0.0444	0.0212	0.0135	0.0095	0.0040
26	e0.0008	0.0010	0.0016	0.0020	0.0032	0.0322	0.0837	0.0411	0.0204	0.0138	0.0089	0.0033
27	e0.0008	0.0010	0.0016	0.0020	0.0024	0.0311	0.0832	0.0402	0.0203	0.0131	0.0084	0.0030
28	0.0008	0.0010	0.0016	0.0020	0.0024	0.0307	0.0839	0.0417	0.0207	0.0127	0.0083	0.0031
29	0.0009	0.0009	0.0016	0.0021	---	0.0312	0.0827	0.0395	0.0198	0.0126	0.0086	0.0031
30	0.0008	0.0009	0.0015	0.0021	---	0.0313	0.0816	0.0366	0.0188	0.0127	0.0086	0.0034
31	0.0008	---	0.0015	0.0020	---	0.0349	---	0.0364	---	0.0127	0.0088	---
Total	0.0267	0.0323	0.0488	0.0528	0.0785	0.5442	2.3090	1.8188	0.7658	0.4773	0.3271	0.1456
Mean	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.06	0.03	0.02	0.01	0.00
Max	0.0009	0.0016	0.0021	0.0021	0.0038	0.0349	0.0883	0.0793	0.0348	0.0185	0.0122	0.0076
Min	0.0008	0.0008	0.0009	0.0015	0.0020	0.0024	0.0413	0.0364	0.0188	0.0126	0.0083	0.0030
Ac-ft	0.05	0.06	0.1	0.1	0.2	1.1	4.6	3.6	1.5	0.9	0.6	0.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.01	0.01	0.00	0.00
Max	0.00	0.00	0.00	0.02	0.02	0.03	0.08	0.07	0.03	0.02	0.01	0.00
(WY)	(2007)	(2005)	(2011)	(2006)	(2006)	(2006)	(2011)	(2006)	(2006)	(2006)	(2006)	(2011)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(2008)	(2004)	(2010)	(2010)	(2008)	(2009)	(2007)	(2009)	(2009)	(2007)	(2009)	(2003)

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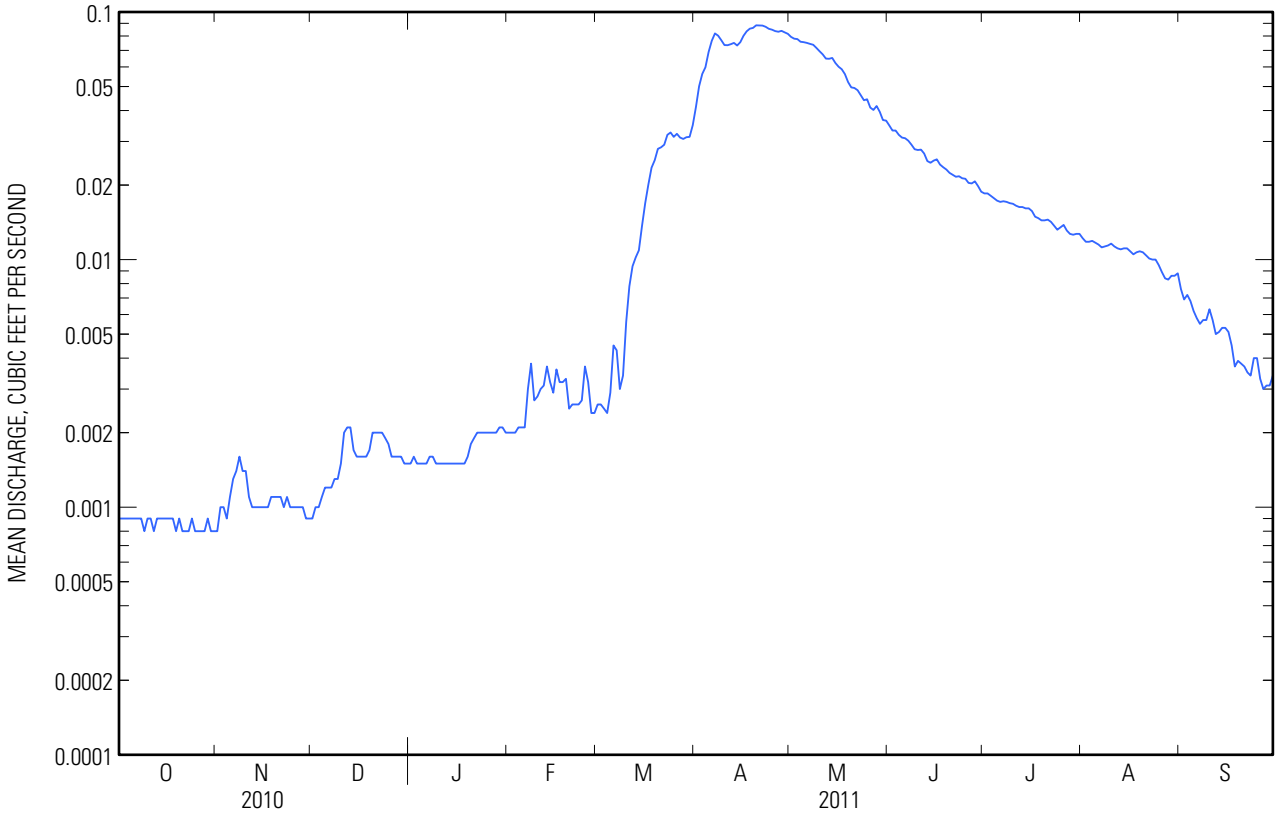
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 2000 - 2011	
Annual total	1.8446		6.6269			
Annual mean	0.01		0.02		0.01	
Highest annual mean					0.02	2006
Lowest annual mean					0.00	2009
Highest daily mean	0.0237	May 5	0.0883	Apr 20	0.0883	Apr 20, 2011
Lowest daily mean	0.0002	Jan 1	0.0008	Oct 9	0.0000	Nov 10, 2003
Annual seven-day minimum	0.0002	Jan 1	0.0008	Oct 21	0.0000	Nov 10, 2003
Annual runoff (ac-ft)	3.7		13		4.4	
10 percent exceeds	0.0178		0.0680		0.0184	
50 percent exceeds	0.0015		0.0057		0.0010	
90 percent exceeds	0.0004		0.0010		0.0004