

LWA Master Sampling Data.xls  
AVPipe

2/2/2010

AVPipe	General Information			Lab Results											Field Results				
Date	Time	Collector	Flow (gpm)	pH	Alkalinity (mg/L)	Hot Acidity (mg/L)	Total Iron (mg/L)	Ferrous Iron (mg/L)	Manganese (mg/L)	Aluminum (mg/L)	Sulfate (mg/L)	Total Suspended Solids (mg/L)	Fe loading (g/day)	Fe loading (lbs/day)	Field pH	Temperature (degrees C)	Conductivity (m S)	Dissolved Oxygen (mg/L)	Weather Conditions/ Comments
02/03/94		LWA		6.3	152	0	52.60		4.10	0.150	636								
12/22/94		LWA	144	6.4	158	0	46.00	45.5	3.70	0.135	546		36,101.00	79.6					
01/31/95		LWA	144	6.5	156	0	55.00	55	4.10	0.178	344		43,164.00	95.2					
02/28/95		LWA	158	6.4	154	0	49.70	49.7	4.10	0.135	529		42,797.00	94.37					
03/03/95		LWA	130	6.2	152	16.2	46.30	49.5	3.80	0.135	546		32,804.00	72.33					
04/26/95		LWA	144	6.3	146	0	48.70	48	4.00	0.178	582		38,220.00	84.27					
05/03/95		LWA	144	6.3	144	0	53.30	46.5	4.40	0.135	481		41,830.00	92.23					
07/14/95		LWA	144																
09/06/95		LWA	130																
11/01/95		LWA	118																
03/11/96		LWA	158																
04/12/96		LWA	171	6.2	128	48	36.90	38.8	3.00	0.135	483	42	34,389.00	75.83					
06/14/96		LWA	144	6.2	126	16	38.30	38.3	2.90	0.135	390	22	30,058.00	66.28					
12/17/97		LWA	219	6.5	164.5	0	49.80	NA	4.30	0.160	495				6.3		1040		
08/03/98		LWA	90	6	90	0	48.90	42.8	2.80	NA	413	3	23,985.00	52.89					
06/27/01		DEP	152	6.2	152	0	46.70	45.1	3.30	0.200	364	40	38,686.00	85.3					
09/24/01		LWA	122	6.2	160	0	46.00	48.3	3.70	0.200	418	2	30,585.00	66.44					
10/19/01		LWA	135	6.3	162	0	41.90	NA	3.50	0.500	491	8	30,828.00	67.98					
11/14/01	10:30am	LWA	134	6.3	158	0	45.10	46.8	3.60	0.200	462	22	32,937.00	72.63	5.9	12.6	1019		Sunny 60's
12/19/01		LWA	134	6.2	152	0	50.30	47.29	4.00	0.200	482	14	36,734.00	81	5.9	12.6	1015	0.09	Clear cool 40's 50's
01/25/02	9:53 AM	Americorps	149	6.2	150.0	0.0	48.90	34.00	4.10	0.200	530	8	39,709	87.56	6.2	12.6	1073	0.20	Clear, cool, mid 40's
02/19/02	11:06 AM	Americorps	161	6.2	146.0	0.0	49.10	43.30	4.40	0.200	504	34	43,083	95.00	6.2	12.7	1320	0.23	Clear, 40-50's
03/25/02	10:30 AM	Americorps	160	6.2	152.0	0.0	51.40	51.87	4.05	0.200	524	30	44,821	98.83	6.3	12.6	1371	0.20	Overcast, 40's
04/24/02	9:55 AM	Americorps	161	6.2	164.0	0.0	46.90	49.30	3.90	0.200	428	24	41,152	90.74	6.5	12.6	1222	0.16	Cool, 40's, partly sunny
05/28/02	11:11 AM	Americorps	191	6.2	172.0	0.0	46.30	40.50	3.80	0.200	402	24	48,196	106.27	6.3	12.6	1021	1.25	
06/25/02	10:45 AM	Americorps		6.3	152.0	0.0	45.40	43.65	3.64	0.200	435	14	-	0.00	6.5	12.8	946	0.94	
07/23/02	9:57 AM	Americorps	164	6.3	156.0	0.0	44.00	35.67	3.69	0.200	442	18	39,327	86.72	6.1	12.6	959	1.30	
08/30/02	pm	Americorps	150	6.4	150.0	0.0	45.20	20.81	3.53	0.200	410	12	36,951	81.48		13.3	1088	1.9	
09/26/02	12:05 PM	Americorps	158	6.4	154.0	0.0	46.60	39.01	3.60	0.200	443	6	40,076	88.37	6.2	12.5	1188		
10/24/02	pm	Americorps	156	6.3	156.0	0.0	44.30	44.96	3.61	0.200	501	8	37,688	83.10	6.1	12.6	1345	0.44	
11/26/02	pm	Americorps	158	6.4	162.0	0.0	48.60	36.86	3.82	0.200	449	10	41,929	92.45	6.9	12.6	855	0.65	
12/20/02	10:48 AM	Americorps	174	6.4	161.8	0.0	48.60	44.36	3.77	0.200	462	8	46,193	101.86	6.5	12.5	395		
01/30/03	2:34 PM	Americorps	153	6.3	175.2	0.0	46.30	38.30	3.71	0.200	436	16	38,607	85.13	6.1	12.6	1366	0.10	Cold, snow cover, 30's
02/25/03	pm	Americorps	167	6.3	169.8	0.0	47.30	47.43	3.69	0.200	450	8	43,050	94.93	6.6	12.5	1462	0.36	Cold, snow cover, 30's
03/25/03	11:50 AM	Americorps	173	6.4	159.8	0.0	41.50	43.10	3.20	0.200	459	2	39,128	86.28	6.5	12.6	1371	0.09	
05/12/03	pm	Americorps	172	6.4	154.2	0.0	33.70	19.56	3.30	0.200	399	8	31,590	69.66	6.3	12.4	1478	0.65	
06/03/03	pm	Americorps	165	6.4	162.4	0.0	38.00	41.00	3.00	0.200	490	10	34,172	75.35	6.7	12.7	1909	0.20	
07/30/03	Not Sampled												-	0.00					
08/25/03	2:30 PM	TC/CW	192	6.3	167.6	0.0	34.70	15.40	3.28	0.200	409	22	36,310	80.06	6.4	13.2	1028	2.53	
11/24/03	PM	TC/CW	240	6.4	169.8	0.0	40.50	40.01	3.44	0.200	445	10	52,974	116.81	6.2				
02/23/04	PM	TC/CW	200	6.3	150.0	-64.0	29.90	27.27	3.29	0.200	384	18	32,591	71.86	6.1				
05/24/04	PM	TC/CW		6.3	150.8	0.0	30.80		2.80	0.200	407	26	30,000						

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08/23/04					6.5	163.8	-21.2	33.40	37.17	3.53	0.500	387	4	-	0.00					
12/17/04	pm	CW,JH	188.09		6.4	167.8	-6.4	31.80	40.53	3.01	0.500	426	4	32,597	71.88	6.2				
05/09/05	am	JH,CW,VP	181.80											-	0.00	6.2				
11/8/2005		SH, AL			6.4	178.4	-77.6	38.70	42.92	3.25	<.5	458.9	14	-	0.00	6.2	12.6	1195	1.81	
12/29/2005		SH, AL			6.4	179.8	-82.2	44.40	44.1	3.95	<.5	417.4	16	-	0.00	6.2	12.6		4	
1/17/2006		SH, AL	81.63		6.5	173	-78.8	40.40	48.5	3.60	<.5	443.9	<3	17,973	39.63	ns	12.6	1129		
2/13/2006		SH, AL	56.6		6.5	173.6	-80.4	37.80	41.1	3.50	<.5	372.9	12	11,660	25.71	6.2	12.5	1261	ns	
3/21/2006		AL			6.5	159.4	-77.6	37.00	39.7	3.40	<.5	398.1	4	-	0.00	6.2	12.6	1320	ns	
4/24/2006	pm	SH, CJ	115		6.4	169.2	-74.6	33.80	2.1	2.90	<.5	420.8	<3	21,184	46.71	6.2	12.6	1320	ns	
5/30/2006	am	SH, CJ	105		6.3	170	-89.8	37.40	41.03	3.43	<.5	407.3	<3	21,402	47.19	6.2	12.7	1341	1.57	Sunny - Humid
6/28/2006	am	SH, CJ	171.4		6.2	135.8	-74.4	37.50	39.36	3.33	<.5	398.4	12	35,030	77.24	6.3	12.7	1320	1.3	Partly Cloudy - Muggy. Heavy rain days before
7/20/2006	am	SH, CJ	151.9		6.4	123.4	-84.4	34.33	39.58	3.20	<.500	357.6	8	28,421	62.67	6.3	12.8	1386	1.46	Sunny - Humid
8/24/2006	am	SH, CJ	94		6.5	137.6	-87.6	39.99	42.3	3.64	<.5	348.9	<3	20,487	45.17	6.2	12.7	NA	1.23	Partly Sunny - No recent precipitation
9/25/2006	am	SH, CJ	148.18		6.6	148.2	-69.6	30.90	40.32	2.84	<.50	641.1	<3	24,954	55.02	6	12.4	NA	1.32	Partly Cloudy
10/31/2006	am	SH, CJ	95		6.4	145.8	-92.4	37.10	42.06	3.45	<.50	406.4	10	19,209	42.35	6	12	1497	0.9	Partly Cloudy
11/15/2006	am	SH, CJ	98		6.4	160.4	-91	41.00	40.64	3.93	<.50	399.1	10	21,898	48.29	6.2	12.5	1480	0.8	Partly Sunny
12/13/2006	am	SH, CJ	96		6.5	177.8	-15.8	35.20	40.55	3.26	<.50	347	15.9	18,417	40.61	6.4	12.6	1459	0.7	Partly Sunny
1/22/2007	am	SH, CJ	95		6.4	148.6	-91.4	36.33	41.54	3.32	<.50	387.5	<3	18,812	41.48	6.4	12.4	1480	1	Hazy, Snow
2/22/2007	am	SH, CJ	80		6.5	181.6	-78.2	36.90	36.76	3.58	<.50	339.6	14	16,088	35.47	6.3	12.4	1460	1	Hazy, Snow/Sleet
5/23/2007	am	SH, CJ	86		6.5	150.6	-23.4	0.30	27.52	0.56	<.50	291.2	14	141	0.31	6.3	13.1	1534	1	Sunny - Humid
6/26/2007	am	SH, CJ	78		6.4	158.8	-83.6	29.60	30.71	2.89	<.5	345.1	24	12,583	27.75	6.4	12.7	1530	1.13	Sunny - Humid
7/26/2007	am	SH, CJ	92		6.3	114	-25.4	31.70	33.97	3.21	<.5	368.6	34	15,894	35.05	6.4	12.6	942	1.41	Sunny, no recent rain
8/29/2007	am	SH, CJ	86		6.7	143.2	-27	30.50	34.94	3.12	<.50	412.3	12	14,295	31.52	6.3	12.7	1475	1.28	Sunny, high rainfall in August
9/26/2007	am	SH, CJ	73		6.4	173.8	-57.4	30.70	35.7	3.13	<.5	372	<3	12,214	26.93	6.4	13.2	1436	1.28	Sunny, no recent rain
10/24/2007	am	SH, CJ	71		6.4	179.8	-39.8	37.55	38.48	3.50	<.500	414.7	6	14,530	32.04	6.3	12.6	1464	1.55	All flows very low; light rain lower 50's
11/28/2007	am	SH, CJ	81		6.5	173.6	-98	36.60	37.69	3.46	<.500	357.8	<3	16,157	35.63	6	12.4	1405	1.27	Several days of rain, mid 30's, sunny
12/17/2007	am	CJ, MD	ns		6.5	182.2	-99	37.10	37.36	3.47	<.500	379.2	10	-	0.00	5.9	12.2	1461	0.25	Several days of rain, mid 20's, snow
1/28/2008	am	CJ, DB	60		6.4	171.4	-94.6	32.67	34.59	3.09	<.500	329.2	<3	10,682	23.55	6	12.5	1511	1.22	Snow, sunny, mid 40's
2/25/2008	am	CJ, MD	58		6.5	170.2	-83.4	34.70	34.79	3.33	<.50	351.2	6	10,969	24.19	5.7	12.2	1485	0.97	Recent snow, low 40's
3/24/2008	am	CJ, MD	71.5		6.4	150.2	-80.6	25.96	27.26	2.75	<.50	311.3	14	10,116	22.31	5.6	12.5	1157	1.51	Cloudy, low 40's
4/21/2008	am	CJ, JJ	74		6.4	134	-91	25.05	25.96	2.84	<.50	392.4	30	10,101	22.27	5.5	11.6	1403	0.92	Cloudy, 60's recent rain
5/19/2008	am	CJ, AB	93.2		6.4	147.8	-70.8	26.19	28.37	2.84	<.50	297.3	<5	13,301	29.33	5.8	12.6	1584	0.87	Cloudy mid 50's, recent rain
6/25/2008	am	CJ, AB	96		6.4	164.8	-90	28.52	28.78	3.08	<.50	352.1	18	14,921	32.90	5.9	12.6	1534	0.97	Sunny, upper 70's
7/28/2008	am	CJ, AB	87.6		6.4	152.6	-101.2	31.21	32.36	3.11	<.50	292.2	20	14,899	32.85	5.9	12.7	1535	1.72	Sunny, high 70's
8/27/2008	am	CJ, SH	90		6.4	157.8	-87.6	32.89	33.52	3.14	<.50	326.1	6	16,132	35.57	5.8	12.8	1496	0.83	Sunny, 70's, no rain for several weeks
9/29/2008	am	CJ, SH	88		6.5	160.4	-78.2	34.24	36.64	3.23	<.50	368.3	<5	16,421	36.21	6	12.7	1414	0.78	Sunny, 60's
10/29/2008	am	SH, CJ	82		6.5	165.6	-80.6	35.06	37.45	3.20	<.50	398.6	16	15,668	34.55	5.8	12.6	1475	0.92	Snow flurries, 30's
12/18/2008	am	SH, CJ	77		6.5	167.8	-72.8	41.00	41.2	3.70	<.50	440.8	18	17,206	37.94	5.1	12.6	1465	0.95	Upper 30's, recent rain and snow
3/30/2009	am	SH, CJ	85		6.5	154.2	-77.2	34.00	35.2	3.00	1.000	361.6	8	15,751	34.73	5.2	12.6	1467	0.56	
4/27/2009	am	SH, CJ	74		6.4	156	-83.4	32.10	32.4	2.90	<.5	322.6	14	12,946	28.55	5.8	12.8	1470	0.77	recent rain
6/24/2009	am	SH, CJ	104		6.8	136.8	-94	29.90	32.9	2.80	<.5	309.9	10	16,947	37.37	6.4	12.7	1442	1.01	recent rain, high 70s
10/5/2009	am	SH, CJ	72		6.5	171	-190.8	30.20	36.9	2.70	<.5	310.9	22	11,850	26.13	6.1	12.8	1442	0.53	dry fall

AVPipe	Average	129.8	6.4	156.6	-35.2	39.3	38.5	3.4	0.2	421.8	14.9	24490.7	54.0	6.2	12.6	1306.9	1.0
	St. Dev.	42.4	0.1	16.1	41.9	8.8	8.8	0.5	0.1	73.2	9.5	14847.3	32.7	0.3	0.3	247.9	0.7
	Min	56.6	6.0	90.0	-101.2	0.3	2.1	0.6	0.1	291.2	2.0	0.0	0.0	5.5	11.6	395.0	0.1

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2/2/2010

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		Max	240.0	6.7	182.2	48.0	55.0	55.0	4.4	0.5	641.1	42.0	52974.0	116.8	6.9	13.3	1909.0	4.0	

Lat - N40.30809 - Long - W79.3911