

DOCKETED	
Docket Number:	99-AFC-04C
Project Title:	Duke Energy North American's Moss Landing Power Plant Modernization Project (Compliance)
TN #:	231181
Document Title:	Moss Landing Power Plant - 2018 Annual Compliance Report (Part 2)
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NPDES Annual Report - 2018

Tabular Summaries

NPDES Permit # CA0006254
CCRWQCB Order No. R3-2000-0041
Dynergy Moss Landing, LLC
Moss Landing Power Plant

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL COAST REGION 895 AEROVISTA PLACE, SUITE 101 SAN LUIS OBISPO, CA 93401	DISCHARGER SELF MONITORING REPORT NPDES ANNUAL SUMMARY REPORT - 2018	DYNEGY MOSS LANDING, LLC P.O. BOX 690 MOSS LANDING, CA 95039-0690
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FACILITY I.D.				YEAR/ MO / DAY									YEAR/ MO / DAY									STATE CODE						NPDES PERMIT#		
3 272011001				BEGINNING			18 / 01 / 01			ENDING			18 / 12 / 31			06						CA0006254								
STATION	Units 6 & 7			Units 1 & 2			EFFLUENT 002			EFFL 002B			EFFL 002D			EFFL 002E			EFFL 002E5			EFFL 002E3								
ANALYSIS	FLOW			FLOW			FLOW			FLOW			FLOW			FLOW			FLOW			FLOW								
UNITS	MGD			MGD			MGD			GPDx1000			GPDx1000			GPDx1000			GPDx1000			GPDx1000								
SMPL TYPE	RECORDED			RECORDED			RECORDED			ESTIMATE			ESTIMATE			ESTIMATE			ESTIMATE			ESTIMATE								
FREQ.	DAILY			DAILY			DAILY			DAILY			DAILY			DAILY			DAILY			DAILY								
MONTH	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW						
JAN	0	0	0	113	359	0	113	359	0	42	420	0	0	0	0	52	305	0	0.0	0.0	0.0	0	0	0						
FEB	0	0	0	121	290	0	121	290	0	125	427	0	0	0	0	52	178	0	2.0	55.6	0.0	0	0	0						
MAR	0	0	0	75	180	0	75	180	0	0	0	0	0	0	0	56	142	6	0.6	19	0.0	0	0	0						
APR	0	0	0	65	159	0	65	159	0	92	411	0	0	0	0	46	168	4	2.2	56.2	0.0	0	0	0						
MAY	0	0	0	64	162	0	64	162	0	42	384	0	0	0	0	31	165	0	0.0	0.0	0.0	0	0	0						
JUNE	0	0	0	146	214	0	146	214	0	157	434	0	0	0	0	104	214	3	0.0	0.0	0.0	0	0	0						
JULY	0	0	0	314	359	183	314	359	183	192	425	0	0	0	0	117	178	47	0.0	0.0	0.0	0	0	0						
AUG	0	0	0	322	359	184	322	359	184	189	431	0	0	0	0	143	379	18	0.0	0.0	0.0	1	37	0						
SEPT	0	0	0	256	349	168	256	349	168	192	428	0	0	0	0	99	175	46	0.0	0.0	0.0	0	0	0						
OCT	0	0	0	312	359	190	312	359	190	103	429	0	0	0	0	105	149	43	0.0	0.0	0.0	0	0	0						
NOV	0	0	0	305	359	240	305	359	240	164	433	0	0	0	0	115	274	19	0.0	0.0	0.0	0	0	0						
DEC	0	0	0	310	359	237	310	359	237	249	456	0	0	0	0	126	236	16	0.0	0.0	0.0	0	0	0						
Average	0	0	0	200	292	100	200	292	100	129	390	0	0	0	0	87	214	17	0.4	10.9	0.0	0.1	3.1	0						

NOTE: EFFL 002E4 FLOW INFORMATION PLACED ON PAGE (AN-M05).

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL COAST REGION 895 AEROVISTA PLACE, SUITE 101 SAN LUIS OBISPO, CA 93401	DISCHARGER SELF MONITORING REPORT NPDES ANNUAL SUMMARY REPORT - 2018	DYNEGY MOSS LANDING, LLC P.O. BOX 690 MOSS LANDING, CA 95039-0690
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FACILITY I.D.				YEAR/ MO / DAY									YEAR/ MO / DAY									STATE CODE			NPDES PERMIT#		
3 272011001				BEGINNING 18 / 01 / 01									ENDING 18 / 12 / 31									06			CA0006254		
STATION	EFFL 002E6			EFFLUENT 002			INTAKES			EFFLUENT 002			UNIT 6			UNIT 7			UNIT 1			UNIT 2					
ANALYSIS	FLOW			T RES CHLOR			pH			pH			TEMPERATURE			TEMPERATURE			TEMPERATURE			TEMPERATURE					
UNITS	GPDx1000			ug/l			pH UNITS			pH UNITS			HEAT TREAT			HEAT TREAT			HEAT TREAT			HEAT TREAT					
SMPL TYPE	ESTIMATE			GRAB			GRAB			GRAB			MAX DELTA T			MAX DELTA T			MAX DELTA T			MAX DELTA T					
FREQ.	DAILY			WEEKLY W/CHL			WEEKLY W/CHL			WEEKLY W/CHL			DAILY			DAILY			DAILY			DAILY					
MONTH	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW			
JAN	0	0	0	61	155	< 30	8.01	8.06	7.97	8.02	8.06	7.99	*	*	*	*	*	*	*	*	*	*	*	*			
FEB	0	0	0	128	185	30	8.02	8.06	8.00	7.98	8.04	7.94	*	*	*	*	*	*	*	*	*	*	*	*			
MAR	0	0	0	317	1620	< 30	7.97	8.00	7.92	7.97	7.98	7.95	*	*	*	*	*	*	*	*	*	*	*	*			
APR	0	0	0	204	400	< 30	7.95	8.05	7.82	7.95	8.03	7.82	*	*	*	*	*	*	*	*	*	*	*	*			
MAY	0	0	0	105	275	< 30	8.10	8.22	7.96	8.11	8.24	7.95	*	*	*	*	*	*	*	*	*	*	*	*			
JUNE	0	0	0	58	100	< 30	8.00	8.06	7.96	7.96	7.99	7.92	*	*	*	*	*	*	*	*	*	*	*	*			
JULY	0	0	0	< 30	< 30	< 30	8.08	8.11	8.03	8.03	8.08	7.99	*	*	*	*	*	*	*	*	*	*	*	*			
AUG	0	0	0	30	30	< 30	8.03	8.09	7.96	7.99	8.05	7.90	*	*	*	*	*	*	*	*	*	*	*	*			
SEPT	0	0	0	31	35	< 30	8.06	8.15	7.97	8.00	8.05	7.87	*	*	*	*	*	*	*	*	*	*	*	*			
OCT	0	0	0	40	80	< 30	8.05	8.11	8.00	8.01	8.05	7.96	*	*	*	*	*	*	*	*	*	*	*	*			
NOV	0	0	0	64	140	35	7.99	8.04	7.97	7.97	8.01	7.95	*	*	*	*	*	*	*	*	*	*	*	*			
DEC	0	0	0	43	80	< 30	7.97	8.00	7.93	7.96	8.02	7.92	*	*	*	*	*	*	*	*	*	*	*	*			
Average	0	0	0	93	261	30	8.02	8.08	7.96	7.99	8.05	7.93	*	*	*	*	*	*	*	*	*	*	*	*			

* No Heat Treatments

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL COAST REGION 895 AEROVISTA PLACE, SUITE 101 SAN LUIS OBISPO, CA 93401										DISCHARGER SELF MONITORING REPORT NPDES ANNUAL SUMMARY REPORT - 2018										DYNEGY MOSS LANDING, LLC P.O. BOX 690 MOSS LANDING, CA 95039-0690 PAGE (AN - M)3									
FACILITY I.D. 3 272011001				YEAR/ MO / DAY BEGINNING 18 / 01 / 01			YEAR/ MO / DAY ENDING 18 / 12 / 31			STATE CODE 06			NPDES PERMIT# CA0006254																
STATION	* INTAKES *			EFFLUENT 002			UNITS 1&2 only			UNITS 6&7 only			UNITS 1,2,6,&7			UNITS 1&2 only			UNITS 6&7 only			UNITS 1,2,6,&7							
ANALYSIS	TEMPERATURE			TEMPERATURE			TEMPERATURE			TEMPERATURE			TEMPERATURE			TEMPERATURE			TEMPERATURE			TEMPERATURE							
UNITS	DEGREES F			DEGREES F			DELTA T			DELTA T			DELTA T			IMAX DELTA T			IMAX DELTA T			IMAX DELTA T							
SMPL TYPE	---			---			---			---			---			---			---			---							
FREQ.	DAILY			DAILY			DAILY			DAILY			DAILY			DAILY			DAILY			DAILY							
MONTH	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW					
JAN	54.1	55.2	52.9	64.7	71.0	56.4	10.6	17.0	2.4							10.6	17.0	2.4											
FEB	51.9	53.5	50.8	65.5	68.9	56.1	13.6	17.9	3.7							13.6	17.9	3.7											
MAR	53.1	54.8	50.9	65.7	73.0	56.4	12.6	19.7	2.5							12.6	19.7	2.5											
APR	55.7	57.2	53.8	63.7	73.5	56.3	7.9	17.4	0.6							7.9	17.4	0.6											
MAY	56.1	58.1	54.5	61.5	65.9	56.2	5.4	9.4	1.4							5.4	9.4	1.4											
JUNE	56.9	59.2	53.7	64.4	68.0	55.5	7.5	12.0	1.5							7.5	12.0	1.5											
JULY	59.6	62.1	57.4	73.5	77.5	64.7	13.9	17.5	6.6							13.9	17.5	6.6											
AUG	58.3	61.0	56.6	73.3	75.8	66.8	15.0	17.6	6.1							15.0	17.6	6.1											
SEPT	58.2	60.7	56.6	69.5	75.4	63.5	11.3	15.5	5.6							11.3	15.5	5.6											
OCT	59.4	60.7	56.3	73.5	77.0	65.7	14.1	16.9	6.5							14.1	16.9	6.5											
NOV	57.1	60.7	54.1	72.1	77.4	66.3	15.0	18.2	10.1							15.0	18.2	10.1											
DEC	56.9	58.7	53.7	72.7	76.0	67.3	15.8	18.8	10.5							15.8	18.8	10.5											
Average	56.4	58.5	54.3	68.3	73.3	60.9	11.9	16.5	4.8	***	***	***	***	***	***	11.9	16.5	4.8	***	***	***	***	***	***					

* 1.9° permit correction factor subtracted.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL COAST REGION 895 AEROVISTA PLACE, SUITE 101 SAN LUIS OBISPO, CA 93401									DISCHARGER SELF MONITORING REPORT NPDES ANNUAL SUMMARY REPORT - 2018									DYNEGY MOSS LANDING, LLC P.O. BOX 690 MOSS LANDING, CA 95039-0690 PAGE (AN - M)4								
FACILITY I.D. 3 272011001			YEAR/ MO / DAY BEGINNING 18 / 01 / 01			YEAR/ MO / DAY ENDING 18 / 12 / 31			STATE CODE 06			NPDES PERMIT# CA0006254														
STATION	EFFL 002B	EFFL 002D	EFFL 002E	EFFL 002E5	EFFL 002B	EFFL 002D	EFFL 002E	EFFL 002E5																		
ANALYSIS	T SUSP SOLID	T SUSP SOLID	T SUSP SOLID	T SUSP SOLID	OIL & GREASE	OIL & GREASE	OIL & GREASE	OIL & GREASE																		
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l																		
SMPL TYPE	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB																		
FREQ.	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY																		
MONTH	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW		
JAN	17.8	17.8	17.8	*ND	*ND	*ND	< 4.0	< 4.0	< 4.0	*ND	*ND	*ND	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND		
FEB	11.6	11.6	11.6	*ND	*ND	*ND	11.3	11.3	11.3	10.2	10.2	10.2	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND	6.3	6.3	6.3	< 5.0	< 5.0	< 5.0		
MAR	*ND	*ND	*ND	*ND	*ND	*ND	26.9	26.9	26.9	**	**	**	*ND	*ND	*ND	*ND	*ND	*ND	13.7	13.7	13.7	**	**	**		
APR	29.5	29.5	29.5	*ND	*ND	*ND	< 4.0	< 4.0	< 4.0	4.8	4.8	4.8	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
MAY	13.7	13.7	13.7	*ND	*ND	*ND	< 4.0	< 4.0	< 4.0	*ND	*ND	*ND	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND		
JUNE	18.7	18.7	18.7	*ND	*ND	*ND	< 4.0	< 4.0	< 4.0	*ND	*ND	*ND	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND		
JULY	12.7	12.7	12.7	*ND	*ND	*ND	< 4.0	< 4.0	< 4.0	*ND	*ND	*ND	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND		
AUG	7.9	7.9	7.9	*ND	*ND	*ND	< 4.0	< 4.0	< 4.0	*ND	*ND	*ND	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND		
SEPT	8.2	8.2	8.2	*ND	*ND	*ND	< 4.0	< 4.0	< 4.0	*ND	*ND	*ND	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND		
OCT	9.9	9.9	9.9	*ND	*ND	*ND	< 4.0	< 4.0	< 4.0	*ND	*ND	*ND	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND		
NOV	12.1	12.1	12.1	*ND	*ND	*ND	< 4.0	< 4.0	< 4.0	*ND	*ND	*ND	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND		
DEC	13.5	13.5	13.5	*ND	*ND	*ND	< 4.0	< 4.0	< 4.0	*ND	*ND	*ND	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND	< 5.0	< 5.0	< 5.0	*ND	*ND	*ND		
Average	14.1	14.1	14.1	*ND	*ND	*ND	6.5	6.5	6.5	7.5	7.5	7.5	5.0	5.0	5.0	*ND	*ND	*ND	5.8	5.8	5.8	5.0	5.0	5.0		

* ND = No discharge to sample

** The discharge was sampled in the previous month

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL COAST REGION 895 AEROVISTA PLACE, SUITE 101 SAN LUIS OBISPO, CA 93401							DISCHARGER SELF MONITORING REPORT NPDES ANNUAL SUMMARY REPORT - 2018							DYNEGY MOSS LANDING, LLC P.O. BOX 690 MOSS LANDING, CA 95039-0690 PAGE (AN - M)5								
FACILITY I.D. 3 272011001							YEAR/ MO / DAY BEGINNING 18 / 01 / 01			YEAR/ MO / DAY ENDING 18 / 12 / 31			STATE CODE 06			NPDES PERMIT# CA0006254						
STATION	EFFL 002E3			EFFL 002E3				EFFL 002E4			EFFL 002E6			EFFL 002E6			EFFL 002E6			EFFL 002E6		
ANALYSIS	T SUSP SOLID			OIL & GREASE				FLOW			T SUSP SOLID			OIL & GREASE			COPPER			IRON		
UNITS	mg/l			mg/l				GPDx1000			mg/l			mg/l			mg/l			mg/l		
SMPL TYPE	GRAB			GRAB				ESTIMATE			GRAB			GRAB			GRAB			GRAB		
FREQ.	EACH DISCHG			EACH DISCHG				DAILY			EACH DISCHG			EACH DISCHG			EACH DISCHG			EACH DISCHG		
MONTH	AVG	HI	LOW	AVG	HI	LOW				AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	AVG	HI	LOW	
JAN	*ND	*ND	*ND	*ND	*ND	*ND				49	250	0	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	
FEB	*ND	*ND	*ND	*ND	*ND	*ND				48	172	0	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	
MAR	*ND	*ND	*ND	*ND	*ND	*ND				51	115	5	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	
APR	*ND	*ND	*ND	*ND	*ND	*ND				42	133	2	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	
MAY	*ND	*ND	*ND	*ND	*ND	*ND				30	164	0	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	
JUNE	*ND	*ND	*ND	*ND	*ND	*ND				102	214	3	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	
JULY	*ND	*ND	*ND	*ND	*ND	*ND				115	174	45	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	
AUG	4.0	4.0	4.0	< 5.0	< 5.0	< 5.0				140	378	18	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	
SEPT	*ND	*ND	*ND	*ND	*ND	*ND				97	172	45	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	
OCT	*ND	*ND	*ND	*ND	*ND	*ND				104	148	41	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	
NOV	*ND	*ND	*ND	*ND	*ND	*ND				111	261	19	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	
DEC	*ND	*ND	*ND	*ND	*ND	*ND				124	216	15	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	
Average	*ND	*ND	*ND	*ND	*ND	*ND				84	200	16	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	*ND	

*ND = No discharge to sample

NOTE: Copper and iron analysis not required for EFFL 002E3 due to no chemical cleaning performed.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL COAST REGION 895 AEROVISTA PLACE, SUITE 101 SAN LUIS OBISPO, CA 93401				DISCHARGER SELF MONITORING REPORT NPDES ANNUAL SUMMARY REPORT - 2018				DYNEGY MOSS LANDING, LLC P.O. BOX 690 MOSS LANDING, CA 95039-0690 PAGE (AN - Q)1			
FACILITY I.D. 3 272011001		YEAR/ MO / DAY BEGINNING 18 / 01 / 01		YEAR/ MO / DAY ENDING 18 / 12 / 31		STATE CODE 06		NPDES PERMIT# CA0006254			
STATION ANALYSIS UNITS SMPL TYPE FREQ.	INTAKES SETT SOLIDS ml/l GRAB F/MAY/AUG/N	EFFLUENT 002 SETT SOLIDS ml/l GRAB F/MAY/AUG/N	EFFLUENT 002 DIS OXYGEN mg/l GRAB F/MAY/AUG/N	EFFLUENT 002 TOXICITY CNC TUc GRAB F/MAY/AUG/N		EFFLUENT 002 AMMONIA (N) mg/l GRAB F/MAY/AUG/N	EFFLUENT 002 MERCURY ug/l GRAB F/MAY/AUG/N	EFFLUENT 002 T CHROMIUM ug/l GRAB F/MAY/AUG/N			
MONTH											
FEB	< 0.1	< 0.1	9.4	1.00		< 0.050	0.0017	0.680			
MAY	< 0.1	< 0.1	9.8	1.00		0.056	0.0090	0.230			
AUG	< 0.1	< 0.1	7.9	1.00		< 0.050	0.0020	0.620			
NOV	< 0.1	< 0.1	9.1	3.13		< 0.050	0.0090	0.500			
Average	< 0.1	< 0.1	9.1	1.53		0.052	< 0.0054	0.508			

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							PAGE (AN - Q)2	
FACILITY I.D. 3 272011001		YEAR/ MO / DAY BEGINNING 18 / 01 / 01		YEAR/ MO / DAY ENDING 18 / 12 / 31		STATE CODE 06	NPDES PERMIT# CA0006254	
STATION	EFFLUENT 002	EFFLUENT 002	EFFLUENT 002	EFFLUENT 002	EFFLUENT 002	EFFLUENT 002	EFFLUENT 002	EFFLUENT 002
ANALYSIS	SELENIUM	COPPER	ARSENIC	NICKEL	CADMIUM	ZINC	SILVER	LEAD
UNITS	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
SMPL TYPE	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
FREQ.	F/MAY/AUG/N	F/MAY/AUG/N	F/MAY/AUG/N	F/MAY/AUG/N	F/MAY/AUG/N	F/MAY/AUG/N	F/MAY/AUG/N	F/MAY/AUG/N
MONTH								
FEB	< 1.000	0.890	1.260	1.470	0.092	3.65	< 0.020	0.238
MAY	< 1.000	0.700	1.210	1.260	0.065	1.42	< 0.020	0.063
AUG	< 1.000	1.200	1.640	1.340	0.093	3.63	< 0.020	0.159
NOV	< 1.000	0.700	1.240	0.690	0.041	1.59	< 0.020	0.248
Average	< 1.000	0.873	< 1.338	1.190	< 0.073	2.57	< 0.020	< 0.177

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL COAST REGION 895 AEROVISTA PLACE, SUITE 101 SAN LUIS OBISPO, CA 93401			DISCHARGER SELF MONITORING REPORT NPDES ANNUAL SUMMARY REPORT - 2018				DYNEGY MOSS LANDING, LLC P.O. BOX 690 MOSS LANDING, CA 95039-0690	
							PAGE (AN - Q)3	
FACILITY I.D. 3 272011001		YEAR/ MO / DAY BEGINNING 18 / 01 / 01		YEAR/ MO / DAY ENDING 18 / 12 / 31		STATE CODE 06	NPDES PERMIT# CA0006254	
STATION		EFFLUENT 002		EFFLUENT 002		EFFLUENT 002		
ANALYSIS		PCB's		CHLOR PHENOL		TOTAL PHENOLS		
UNITS		ng/l		ug/l		ug/l		
SMPL TYPE		GRAB		GRAB		GRAB		
FREQ.		MAY		MAY		MAY		
MONTH								
FEB								
MAY		< 97.0		< 9.50		< 9.50		
AUG								
NOV								
Average								

Attachment 1

2018 NPDES Annual Report

Hazardous Waste Surface Impoundments Discharge Monitoring

Analytical Results for Rainwater & Filtered Line-Flushing Water Discharges from Metal Cleaning Waste Pond Nos. 1, 2 and 3 in 2018

Analyte (mg/l)	RAINWATER		Filtered Line-Flushing Water	
	MLS18-16 MCWP No. 1, 2 & 3	MLS18-38 MCWP No. 1, 2 & 3	MLS18-134 Frac Tank DB4287MI	MLS18-135 Frac Tank DB6149MI
Sample Date	2/8/18	4/7/18	8/2/18	8/2/18
Discharge Date(s)	2/20/18 & 3/1/18	4/25/18 & 4/26/18	8/8/18	8/8/18
Antimony	< 8.50	< 8.50	< 0.50	< 0.50
Arsenic	< 7.80	< 7.80	< 0.50	0.58
Barium	3.60	6.60	26.00	30.00
Beryllium	< 0.50	< 0.50	< 0.50	< 0.50
Cadmium	< 1.10	< 1.10	< 0.25	< 0.25
Chromium	< 1.10	< 1.10	2.60	1.50
Cobalt	< 1.30	< 1.30	0.56	0.65
Copper	6.50	6.70	14.00	9.30
Lead	< 4.00	< 4.00	1.80	0.62
Mercury	< 0.03	< 0.03	0.87	1.30
Molybdenum	< 1.20	< 1.20	3.00	3.90
Nickel	< 2.00	< 2.00	21.00	38.00
Selenium	< 15.00	< 15.00	< 0.50	< 0.50
Silver	< 1.90	< 1.90	< 0.19	< 0.19
Thallium	< 24.00	< 24.00	< 0.50	< 0.50
Vanadium	< 2.20	< 2.20	4.30	1.90
Zinc	26.00	45.00	81.00	30.00
pH	8.88	7.12	7.69	7.67
Gallons Discharged	18,614	66,768	18,710	18,710

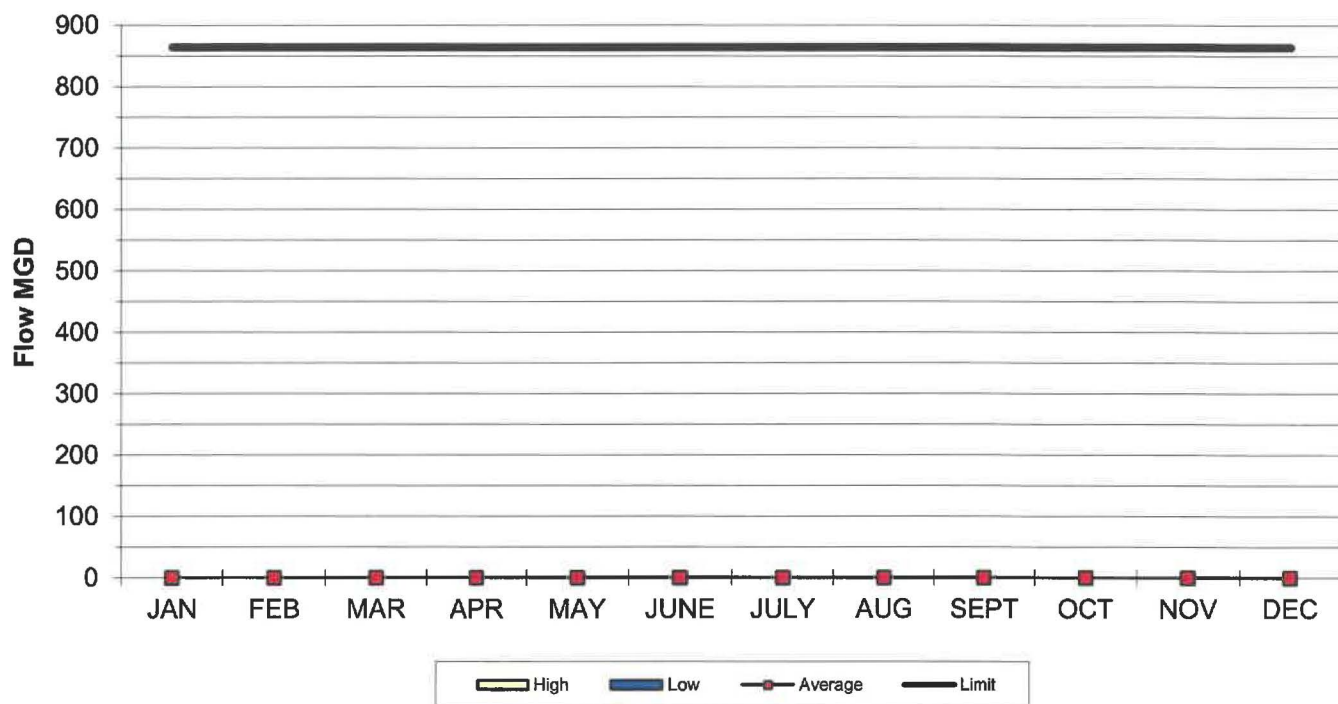
NPDES Annual Report - 2018

Graphical Summaries

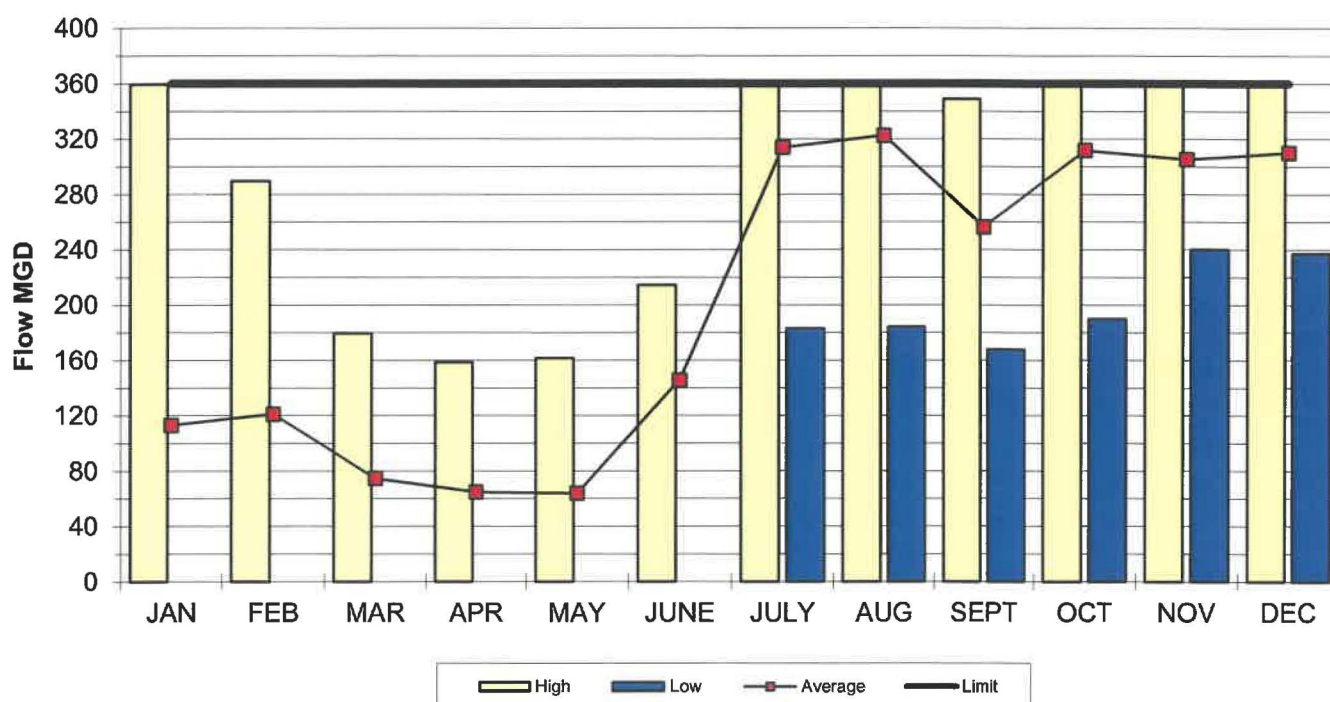
NPDES Permit # CA0006254
CCRWQCB Order No. R3-2000-0041
Dynergy Moss Landing, LLC
Moss Landing Power Plant

MOSS LANDING POWER PLANT NPDES ANNUAL SUMMARY REPORT - 2018

EFFLUENT 002
Once Through Cooling for Units 6 & 7 only



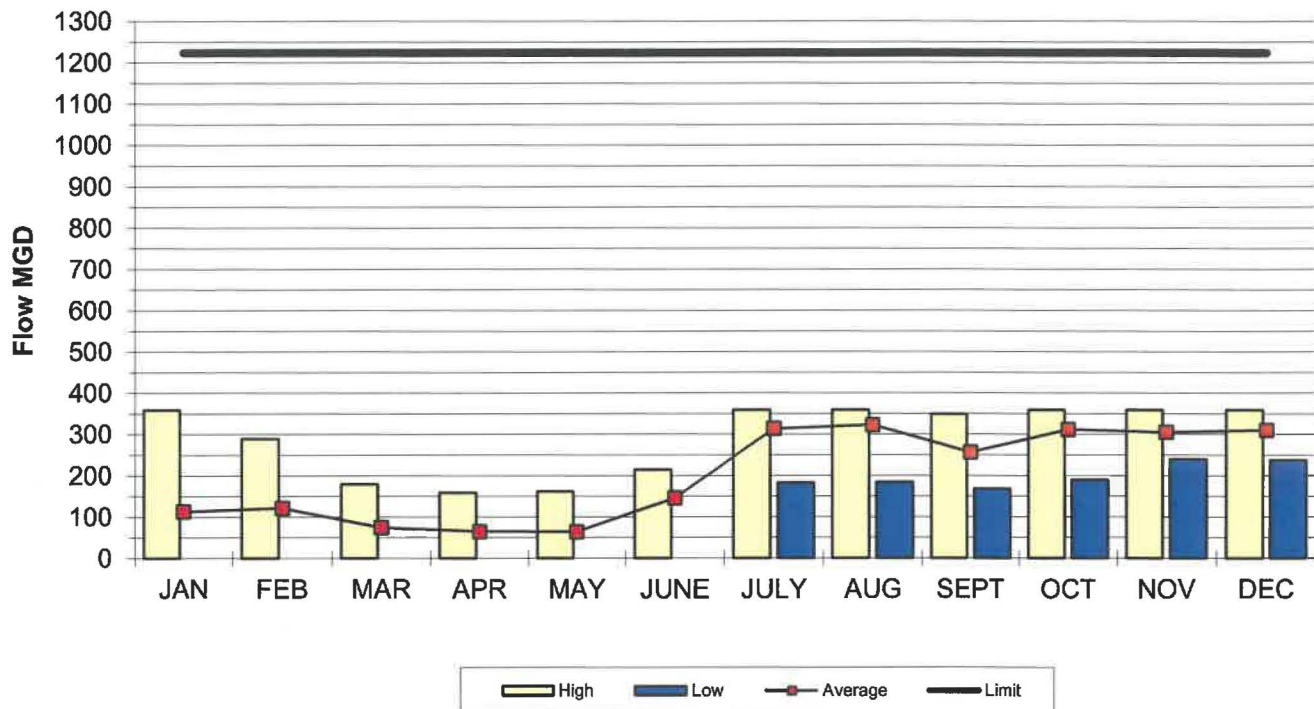
EFFLUENT 002
Once Through Cooling for Units 1 & 2 Only



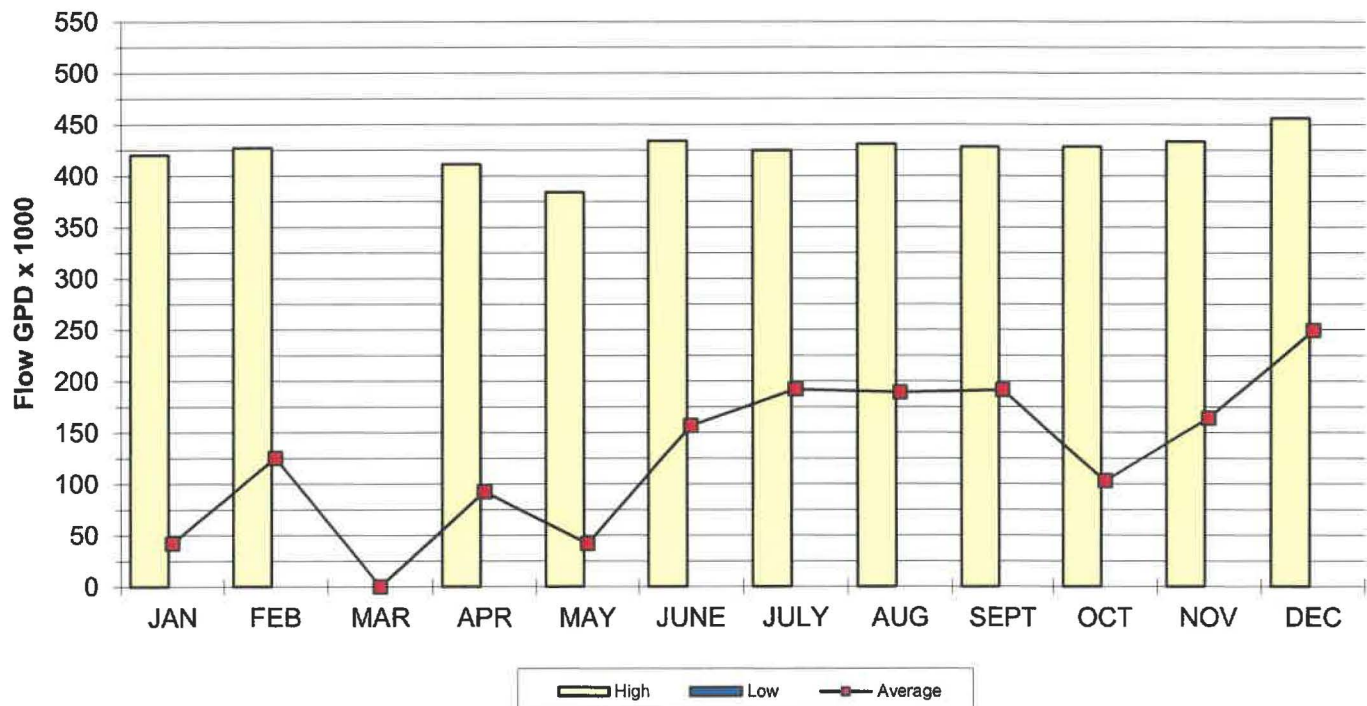
MOSS LANDING POWER PLANT NPDES ANNUAL SUMMARY REPORT - 2018

EFFLUENT 002

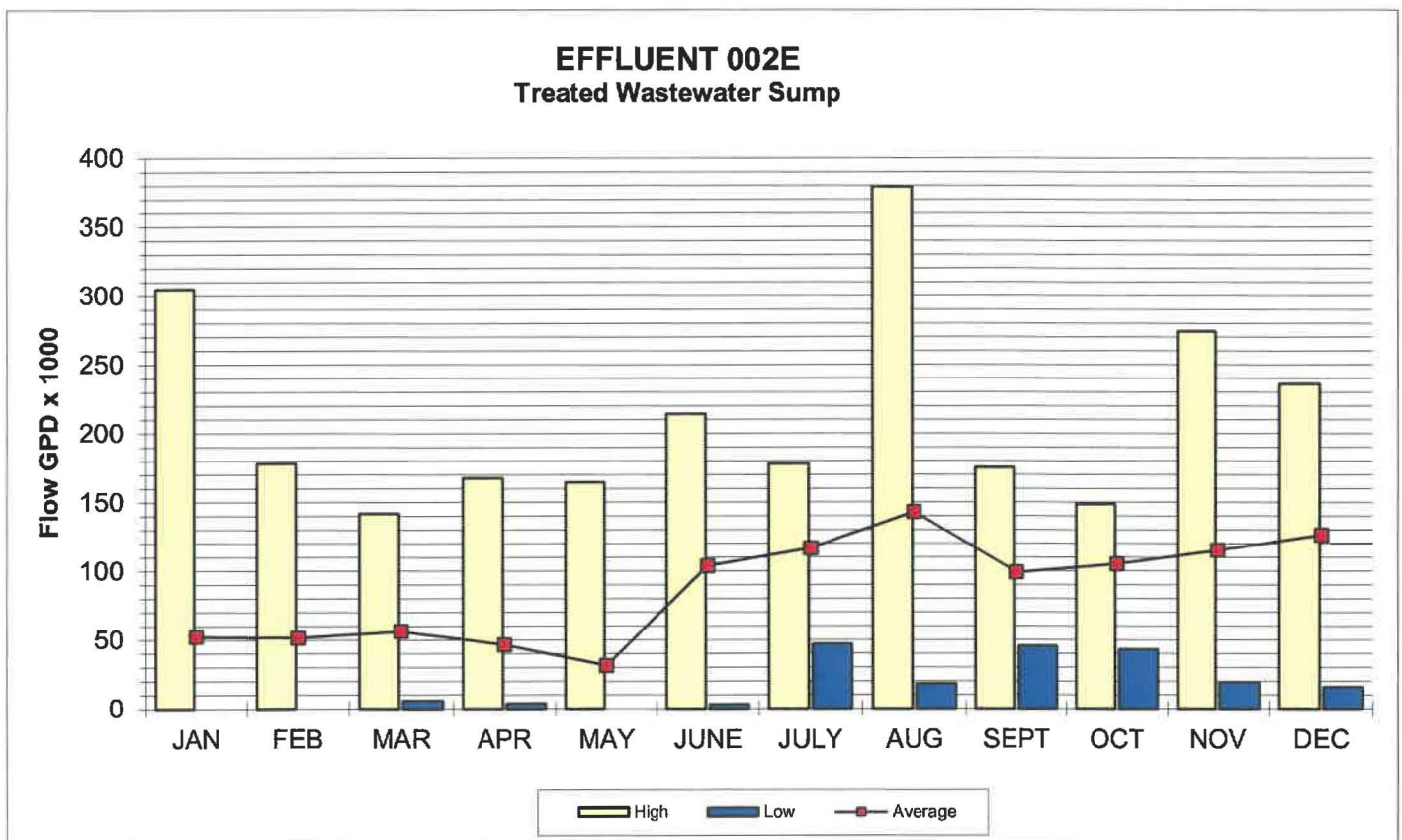
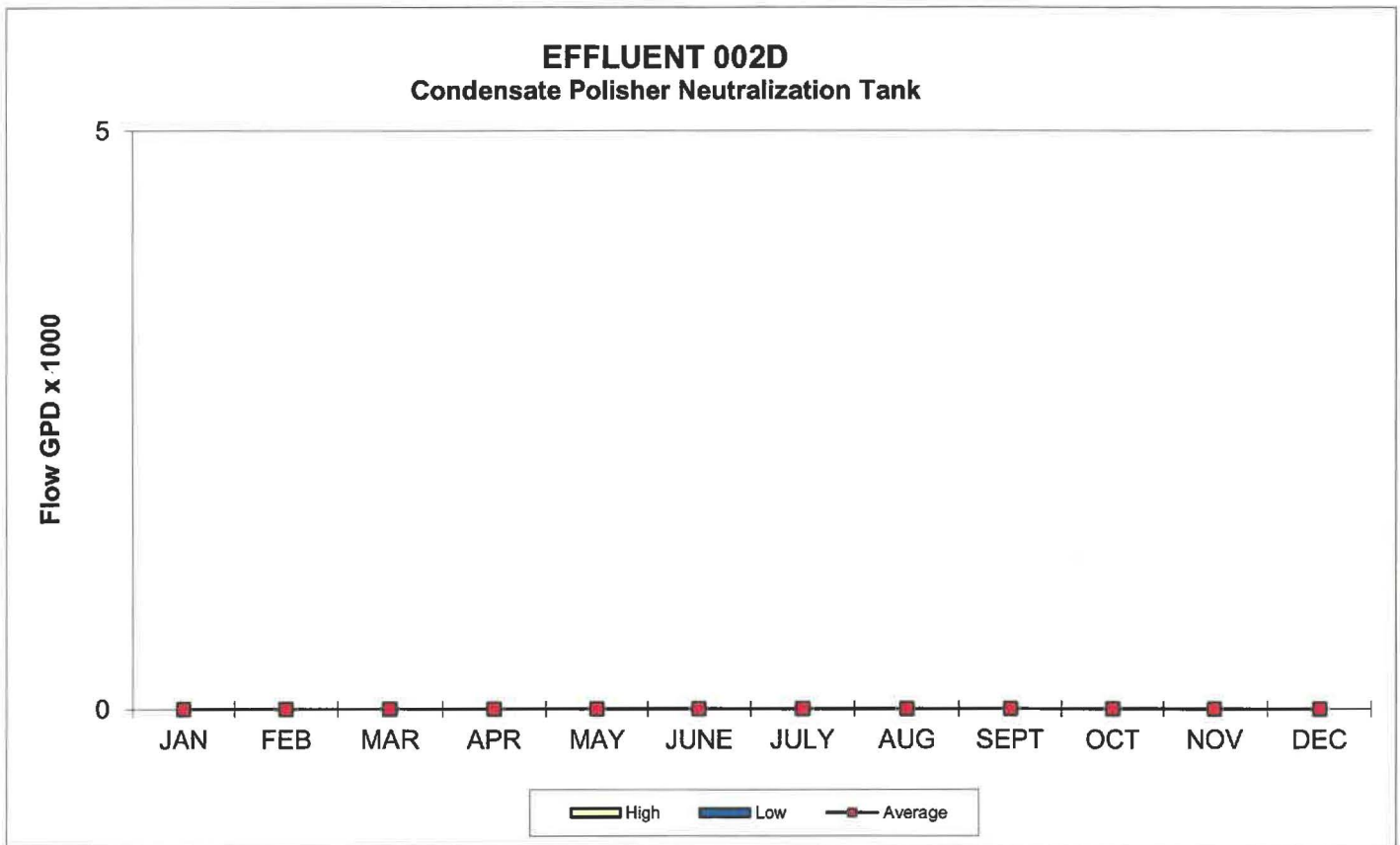
Total Flow Once Through Cooling for Units 1, 2, 6 & 7



EFFLUENT 002B Seawater Evaporator Blowdown

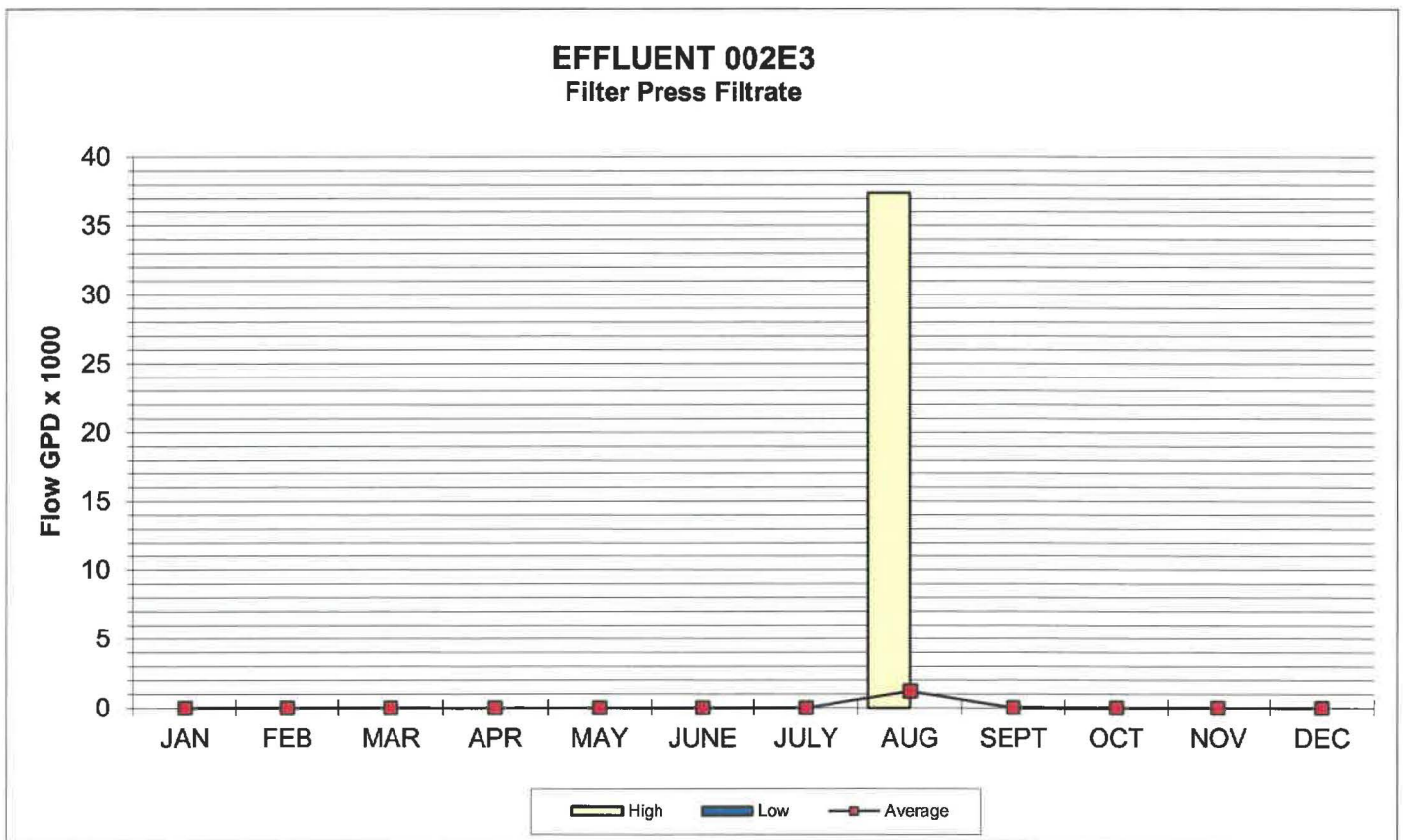
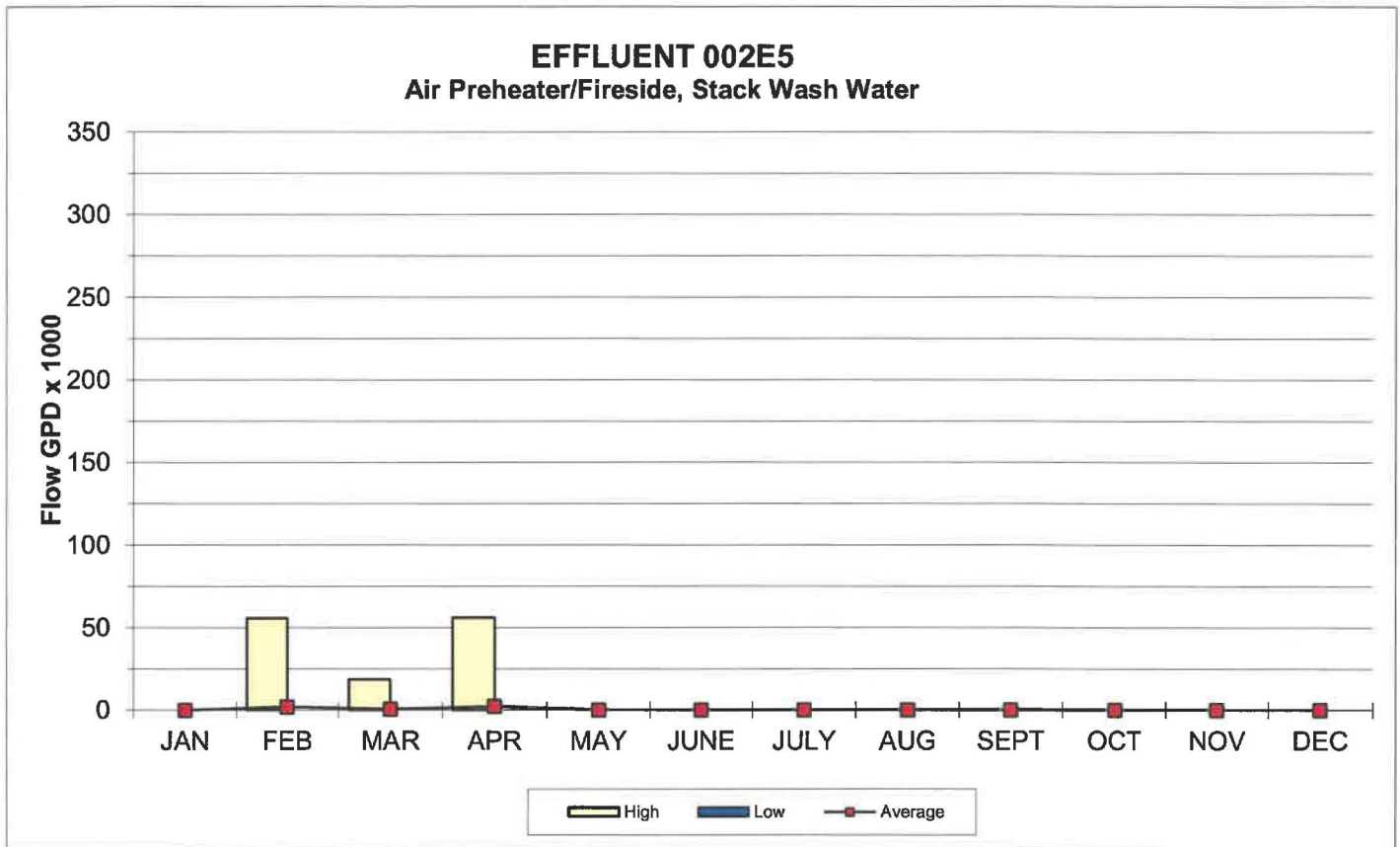


MOSS LANDING POWER PLANT NPDES ANNUAL SUMMARY REPORT - 2018



MOSS LANDING POWER PLANT

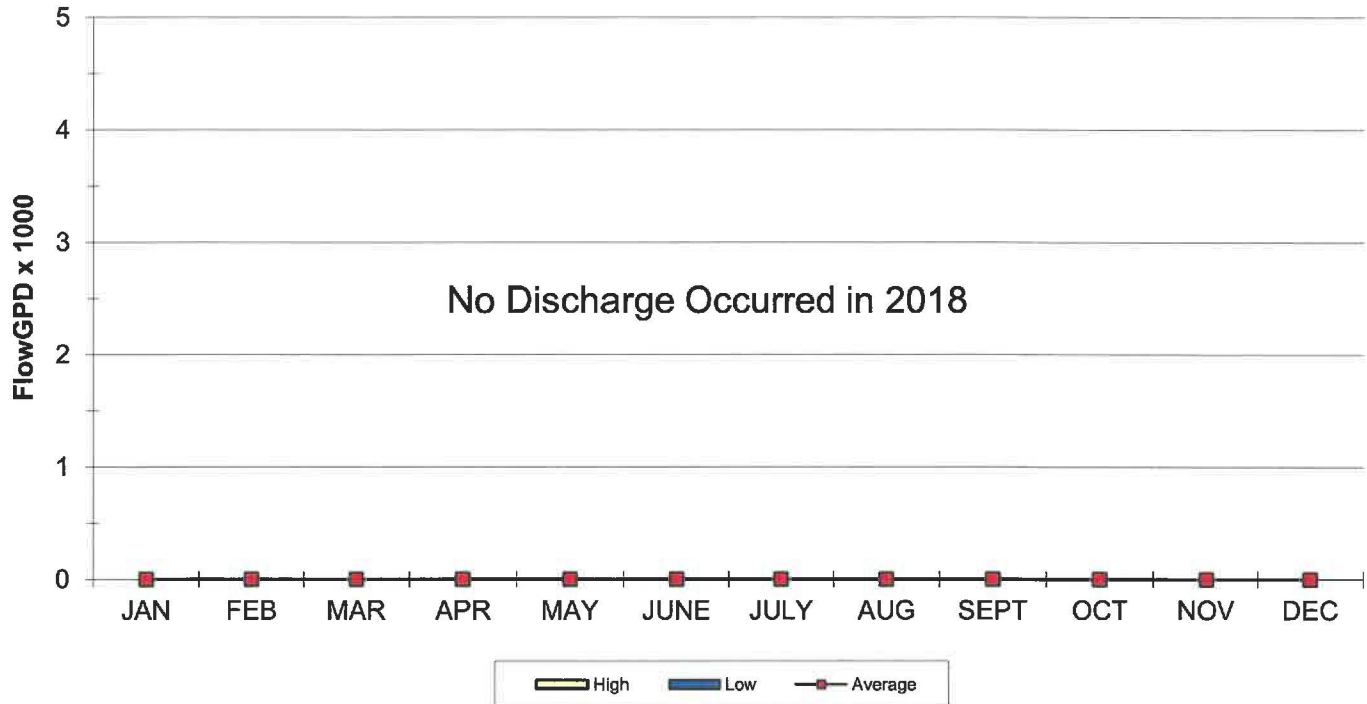
NPDES ANNUAL SUMMARY REPORT - 2018



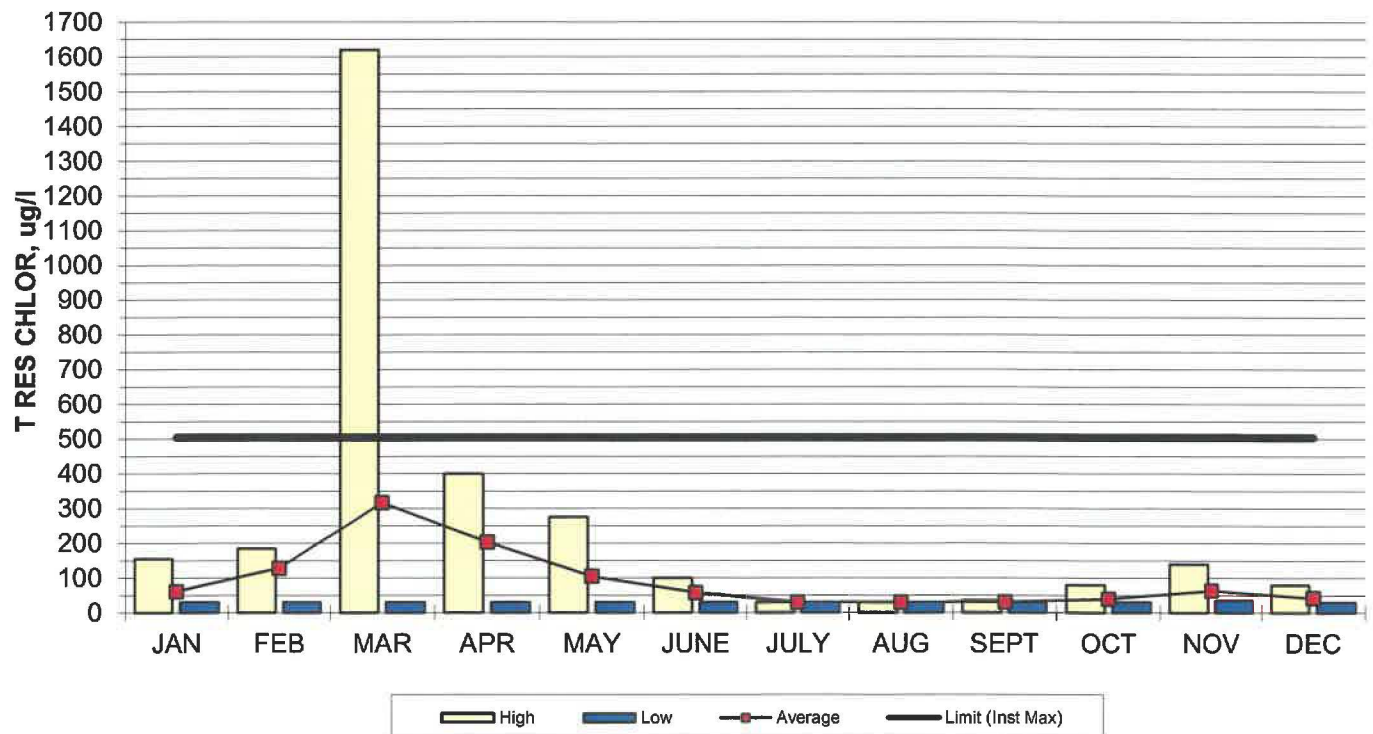
MOSS LANDING POWER PLANT

NPDES ANNUAL SUMMARY REPORT - 2018

EFFLUENT 002E6 Chemical Cleaning Wastewater

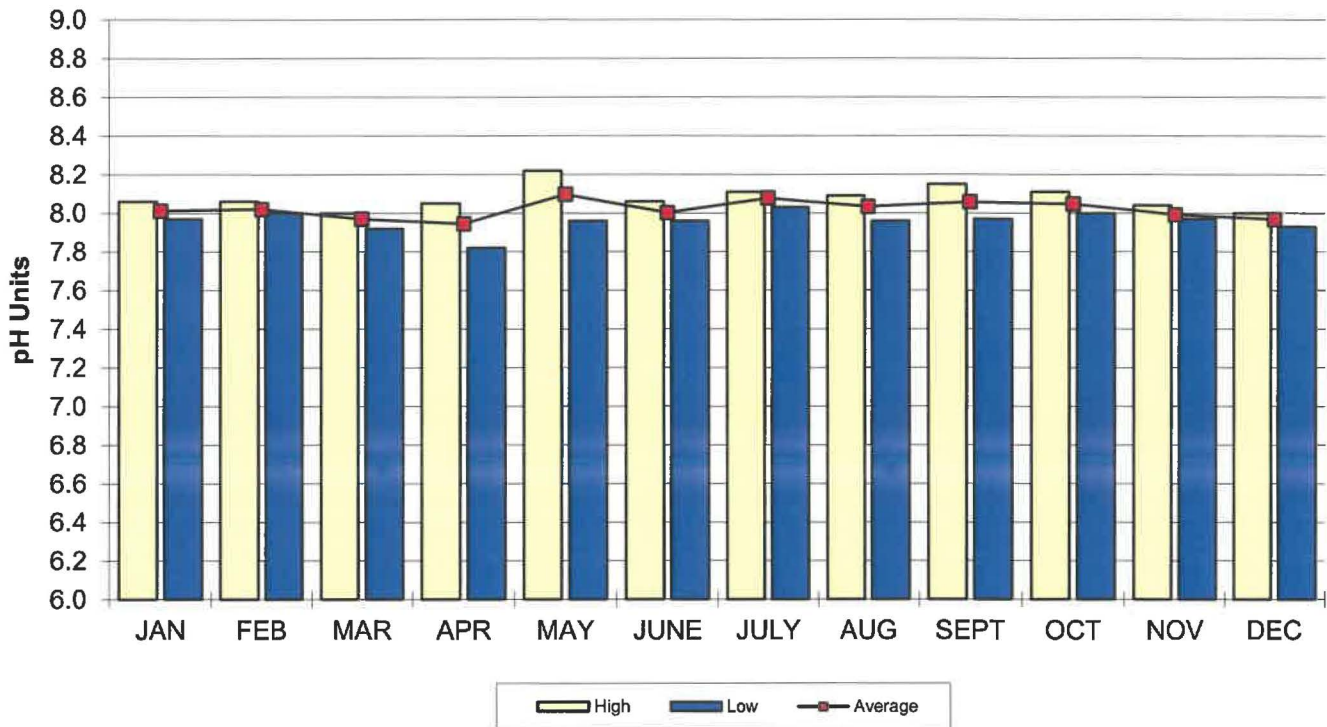


EFFLUENT 002



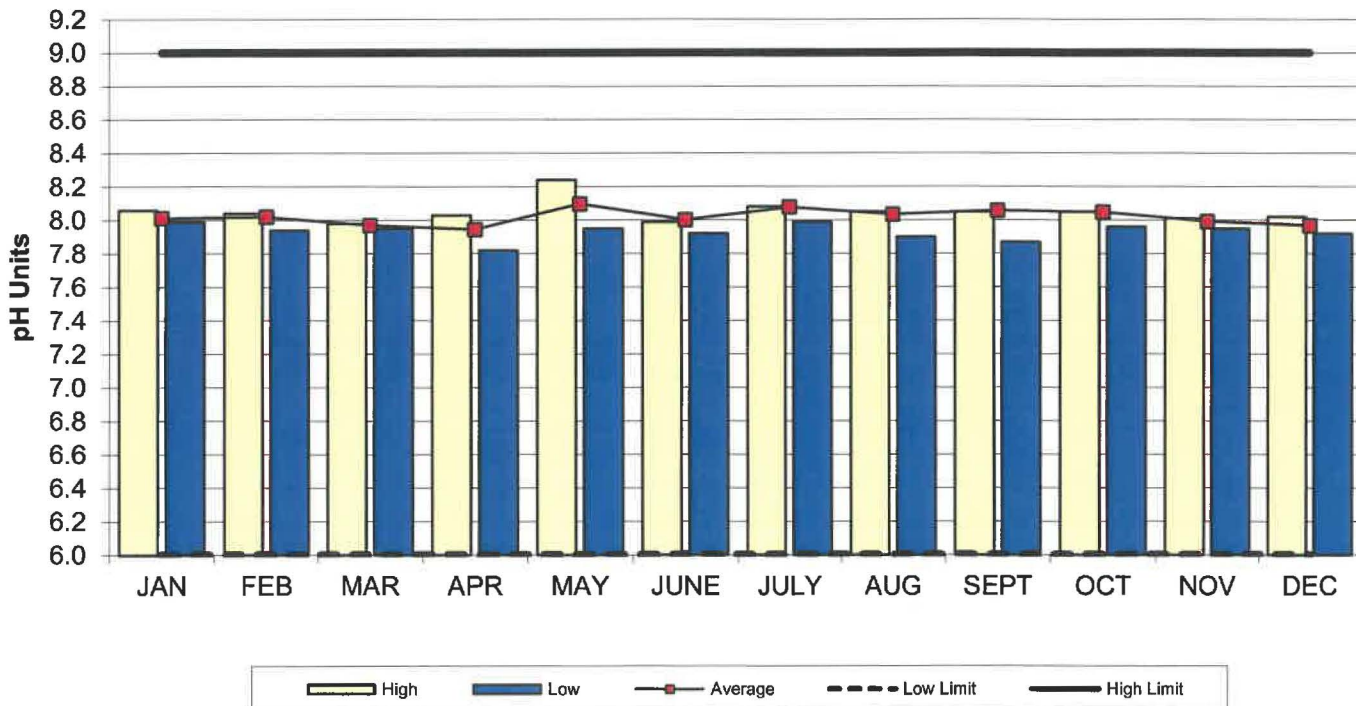
MOSS LANDING POWER PLANT NPDES ANNUAL SUMMARY REPORT - 2018

INTAKES



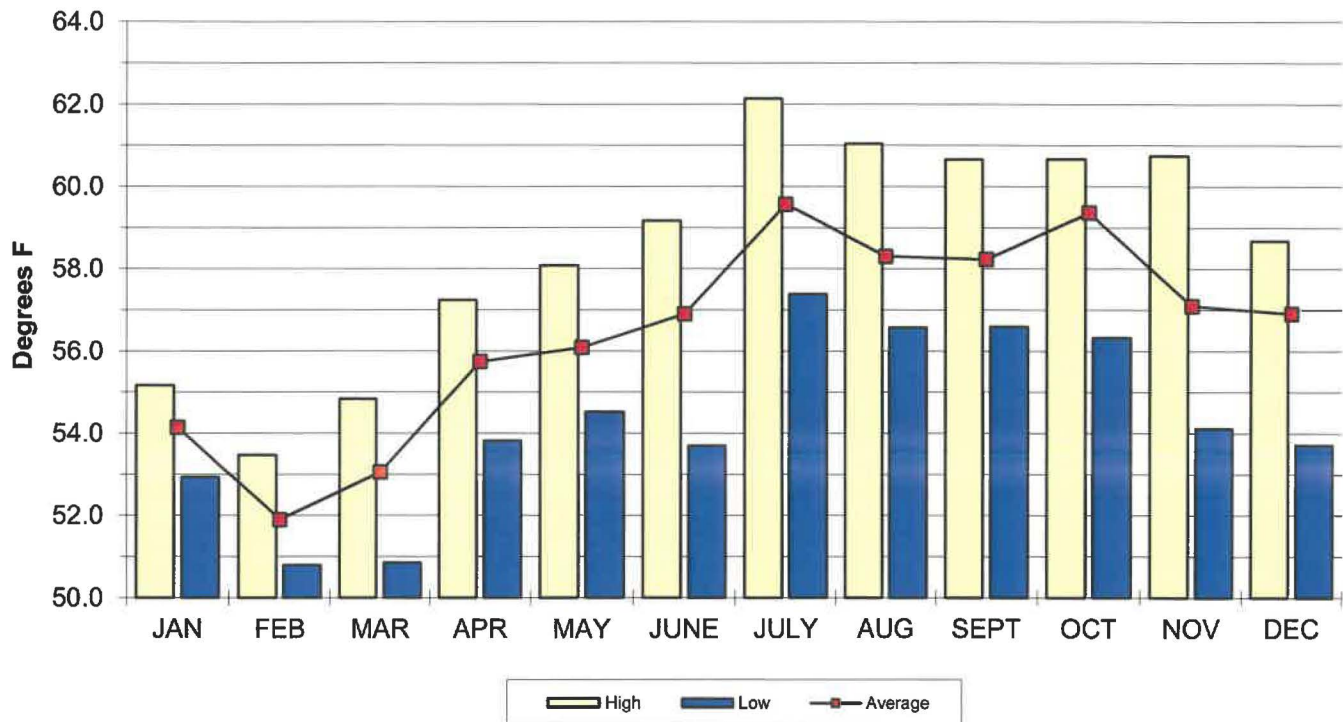
EFFLUENT 002

Once Through Cooling for Units 1, 2, 6 & 7

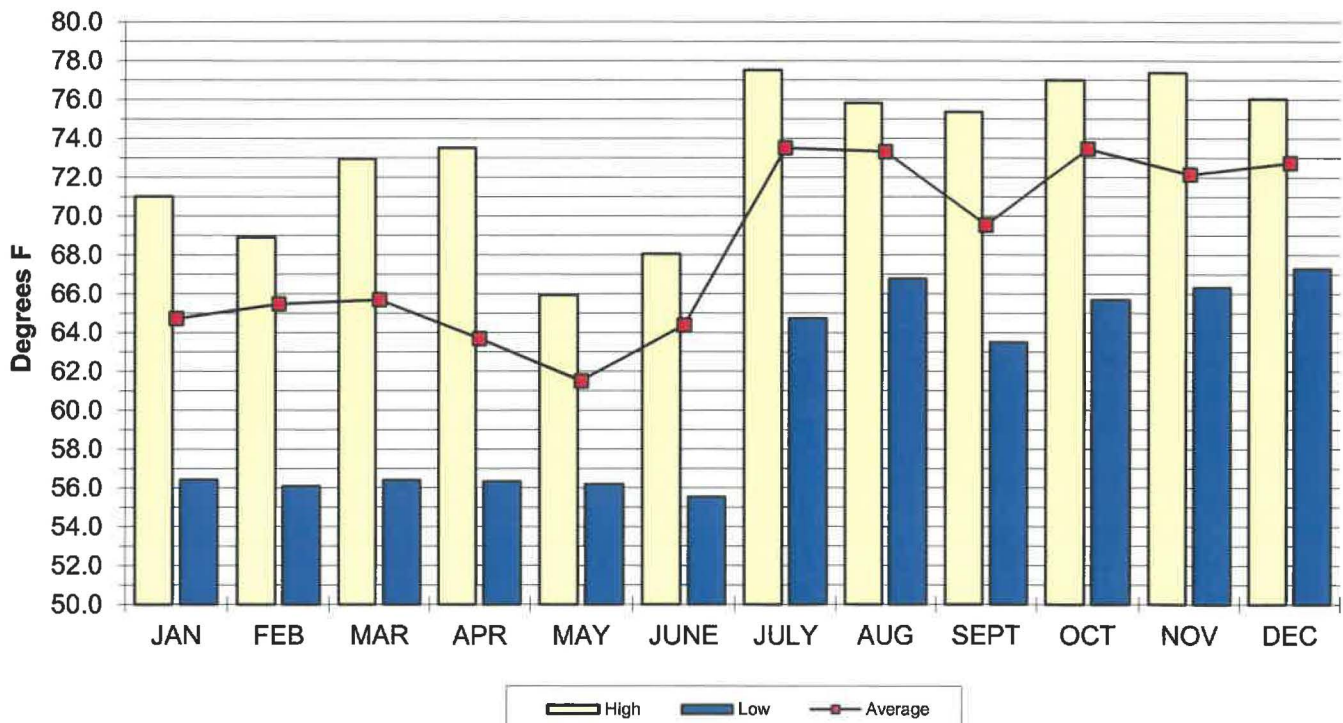


MOSS LANDING POWER PLANT NPDES ANNUAL SUMMARY REPORT - 2018

INTAKES



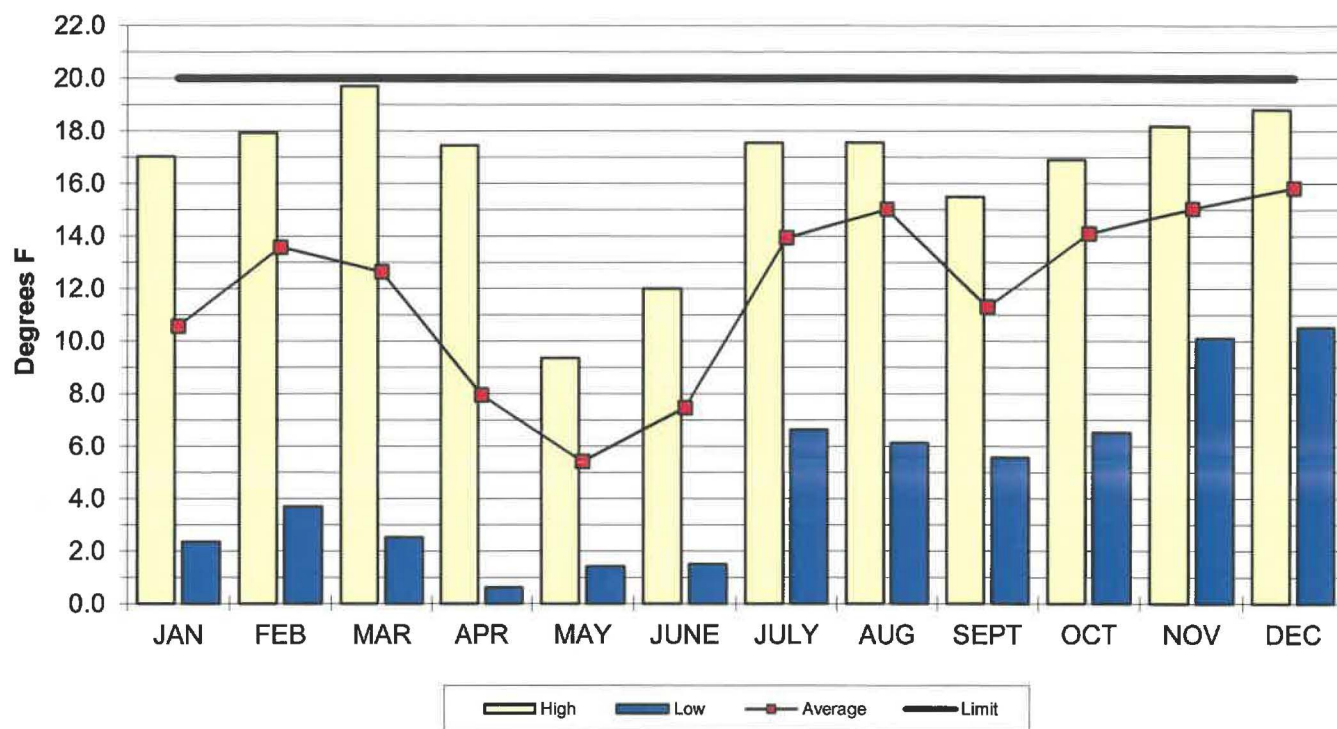
EFFLUENT 002 Once Through Cooling for Units 6&7



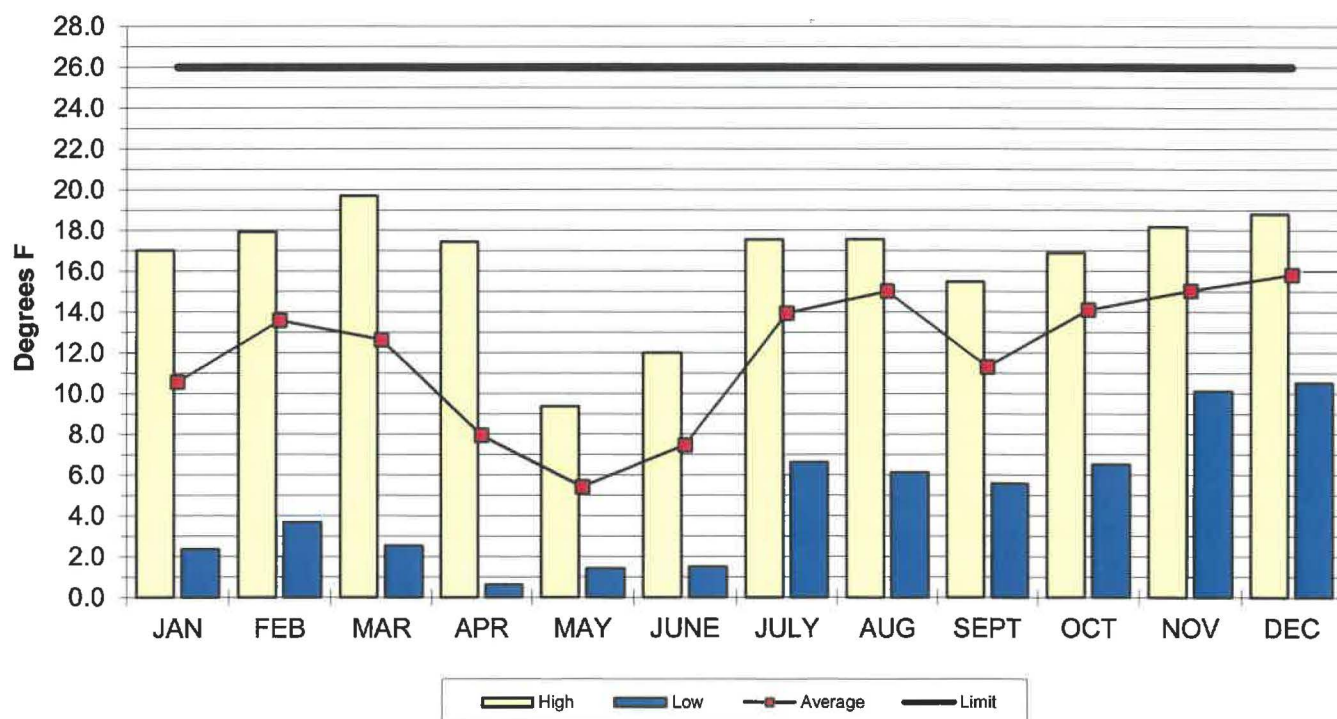
MOSS LANDING POWER PLANT

NPDES ANNUAL SUMMARY REPORT - 2018

DAILY AVERAGE DELTA T (Only Units 1 & 2 Operating)



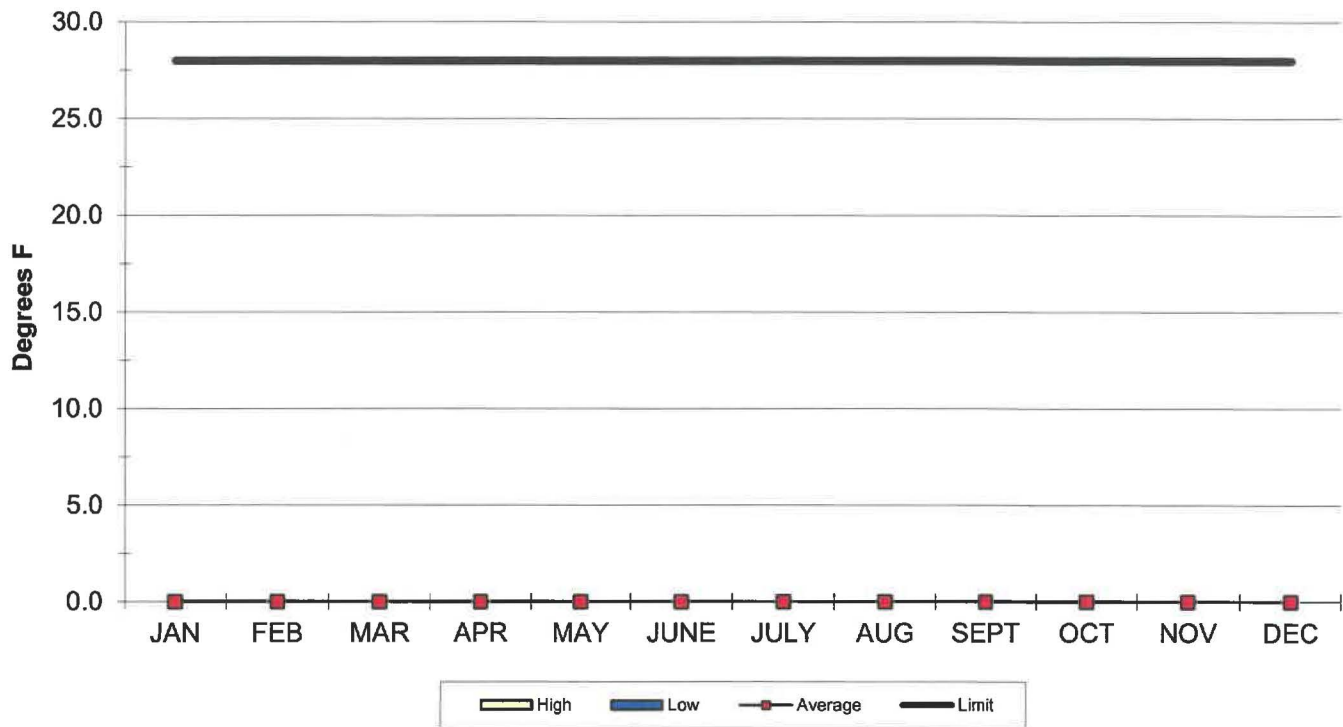
INSTANTANEOUS MAXIMUM DELTA T (Only Units 1 & 2 Operating)



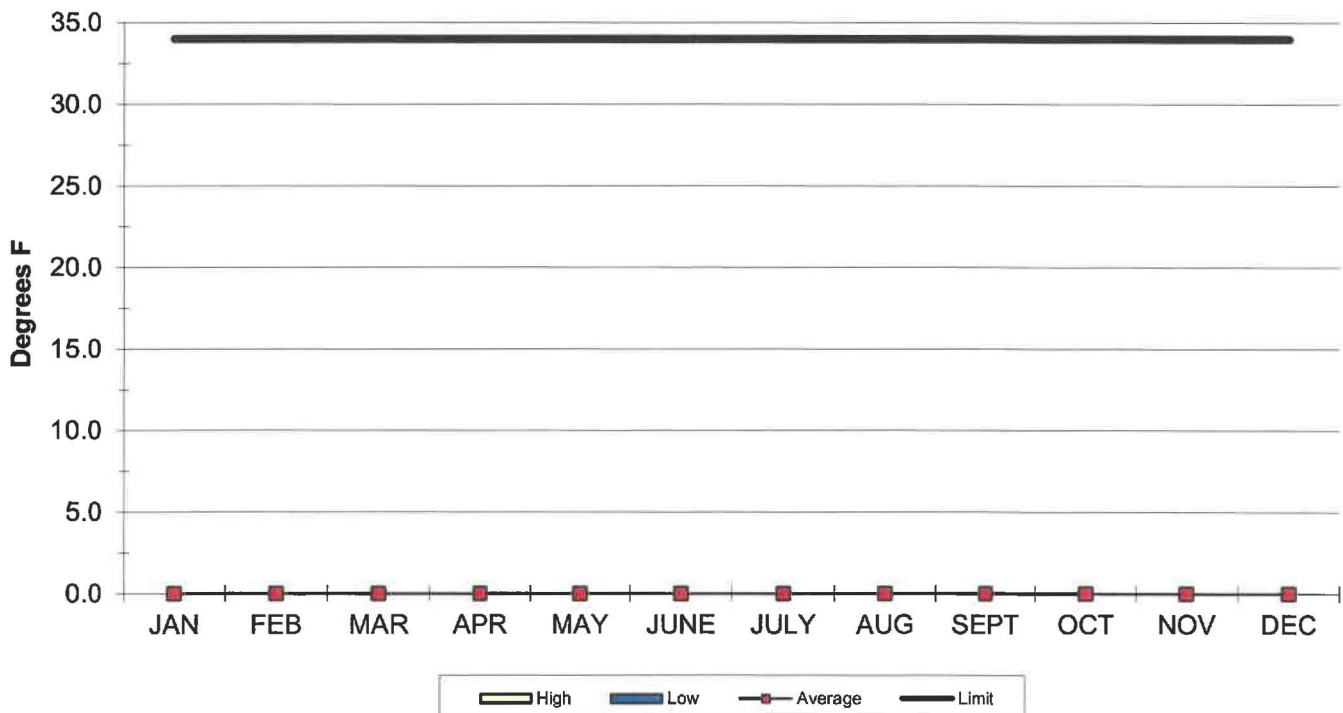
MOSS LANDING POWER PLANT

NPDES ANNUAL SUMMARY REPORT - 2018

DAILY AVERAGE DELTA T
(Only Units 6 & 7 Operating)

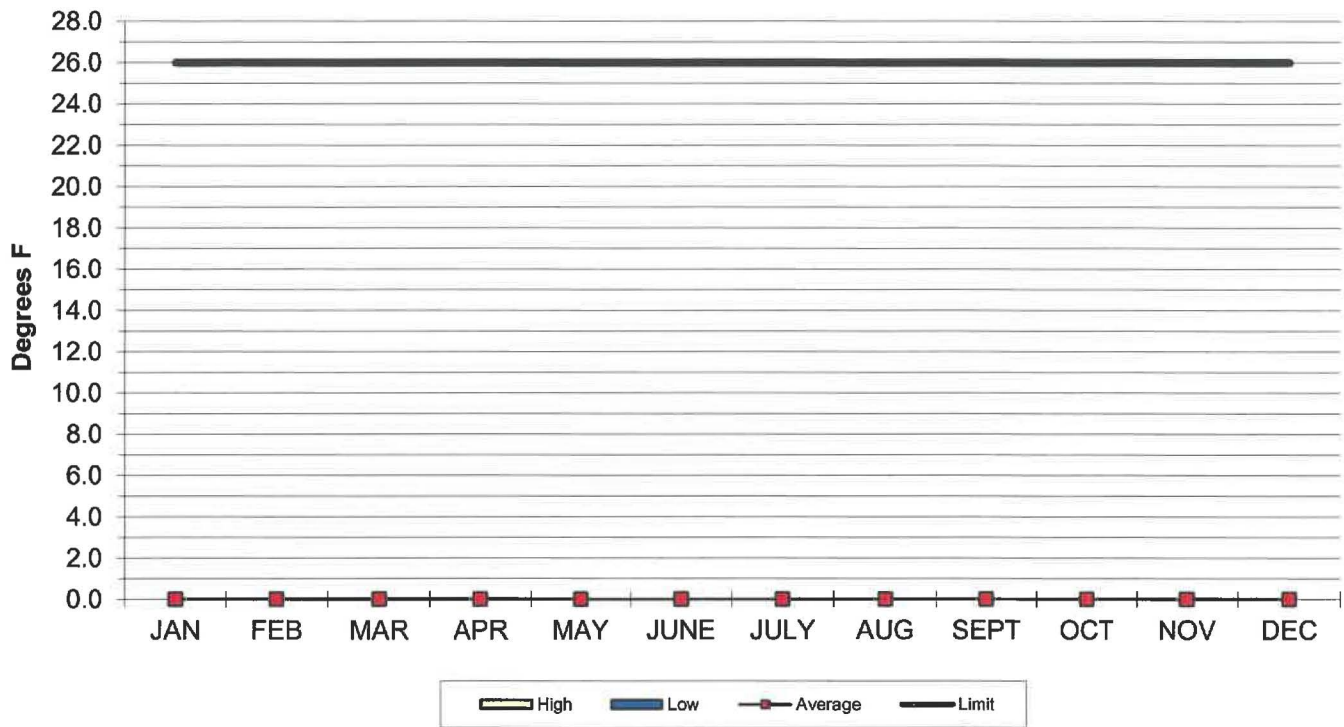


INSTANTANEOUS MAXIMUM DELTA T
(Only Units 6 & 7 Operating)

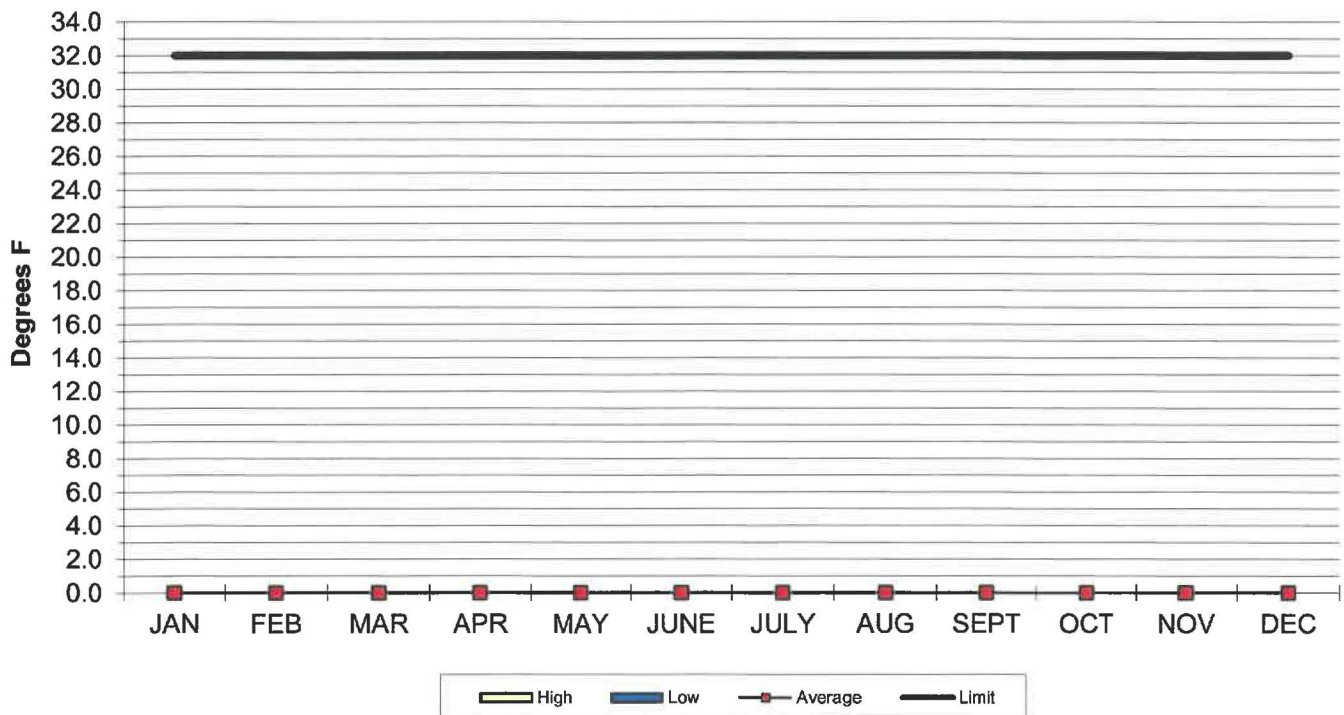


MOSS LANDING POWER PLANT NPDES ANNUAL SUMMARY REPORT - 2018

DAILY AVERAGE DELTA T
(Units 1, 2, 6 & 7 Operating)

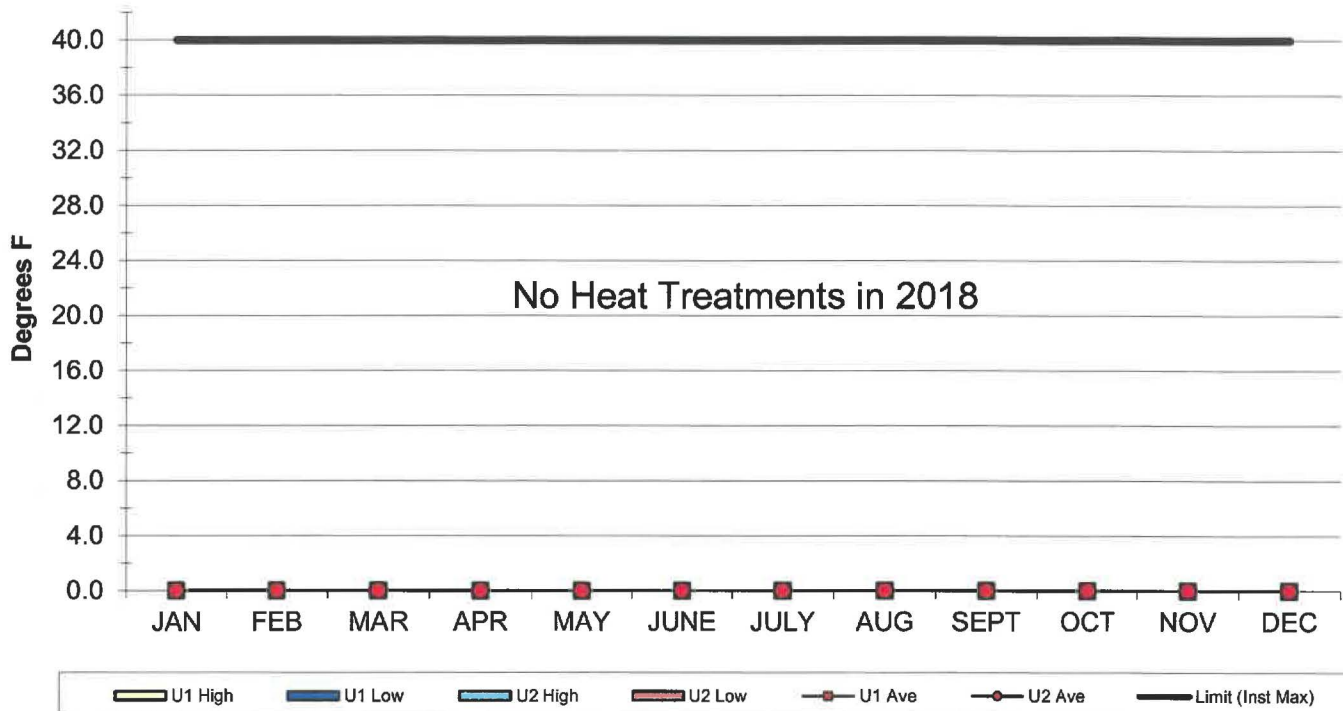


INSTANTANEOUS MAXIMUM DELTA T
(Units 1, 2, 6 & 7 Operating)

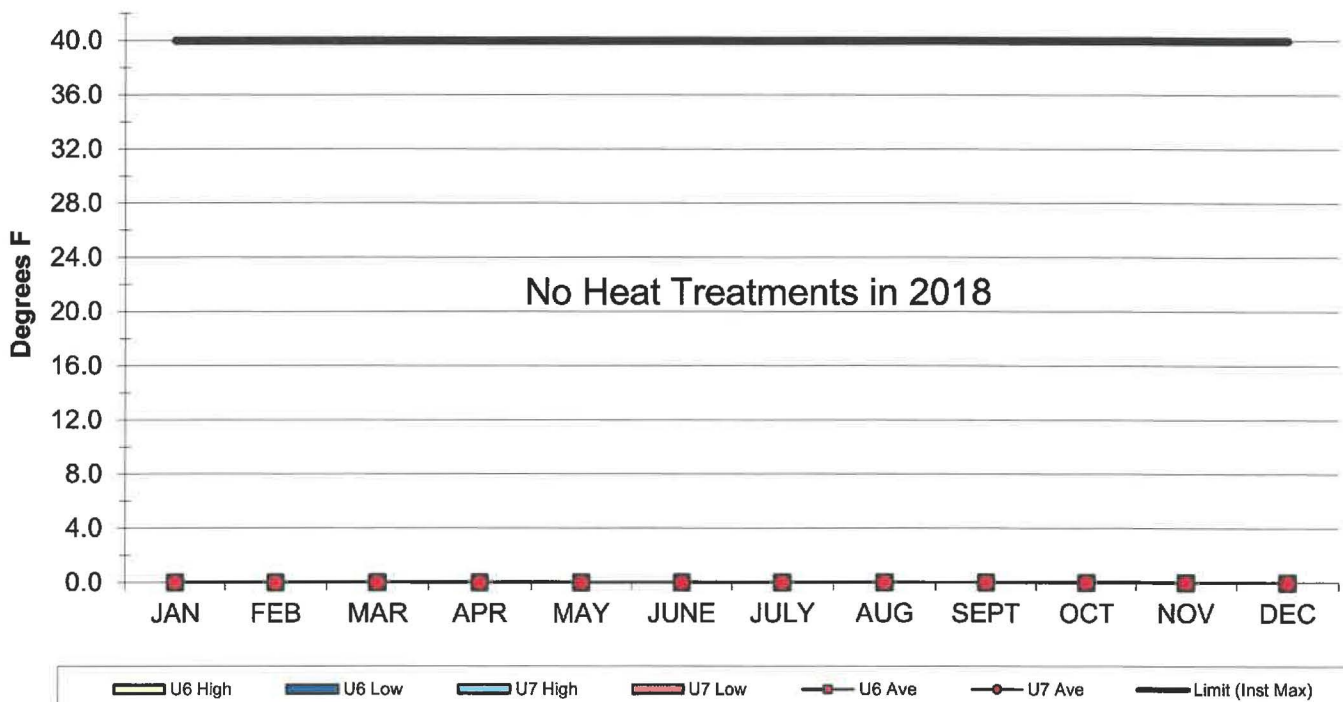


**MOSS LANDING POWER PLANT
NPDES ANNUAL SUMMARY REPORT - 2018**

**DELTA T for HEAT TREATS
(Units 1 & 2)**

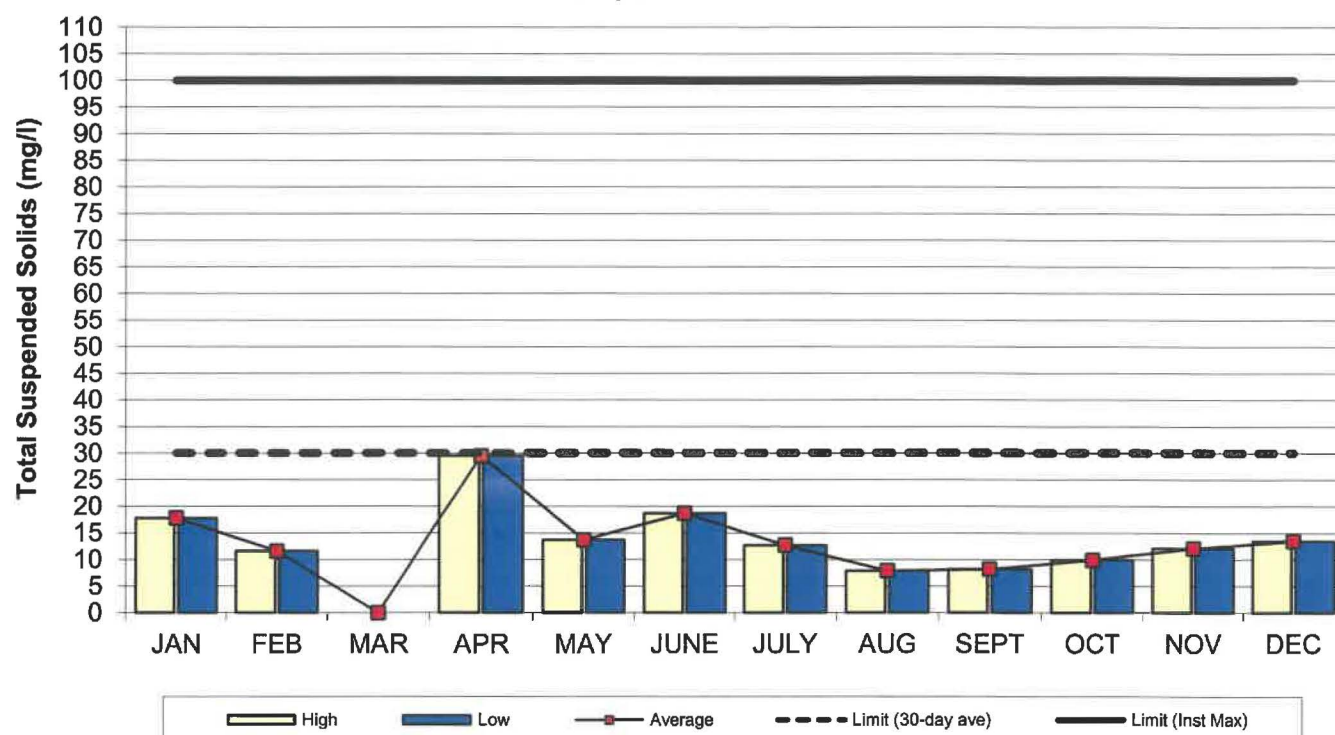


**DELTA T for HEAT TREATS
(Units 6 & 7)**

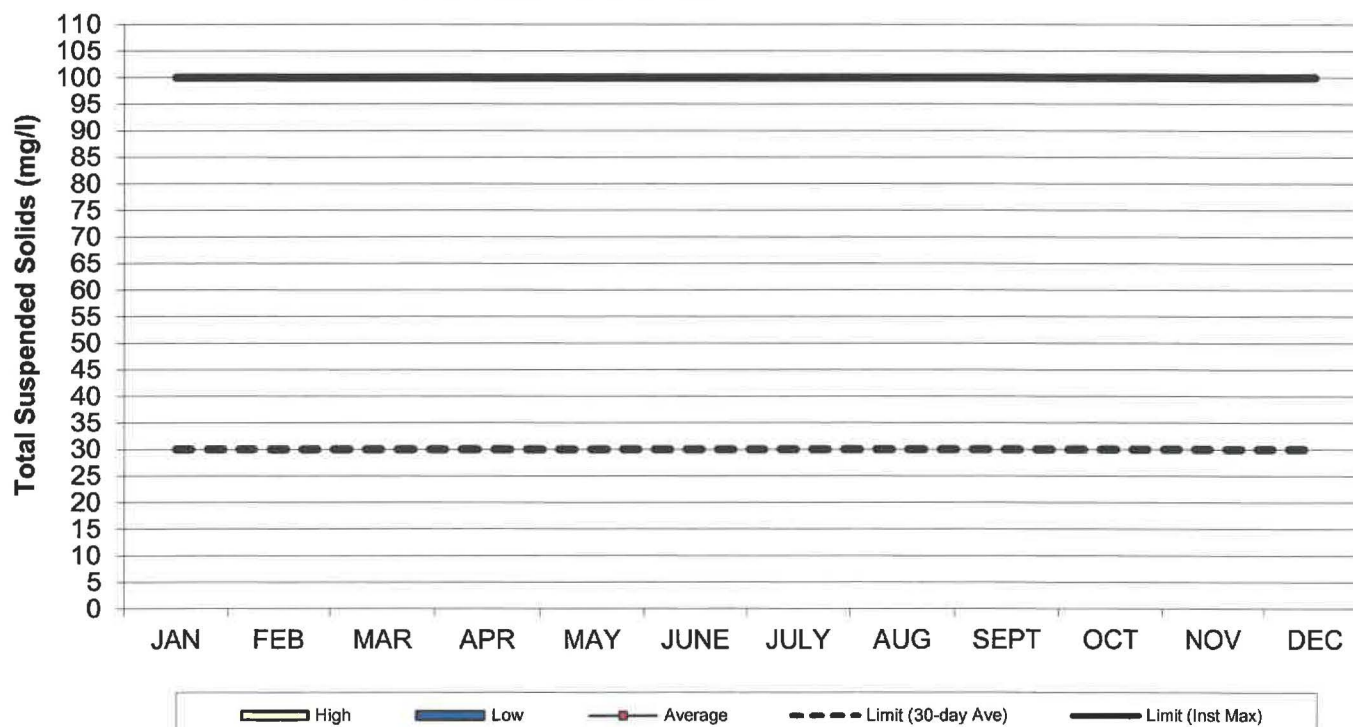


MOSS LANDING POWER PLANT NPDES ANNUAL SUMMARY REPORT - 2018

EFFLUENT 002B Seawater Evaporator Blowdown

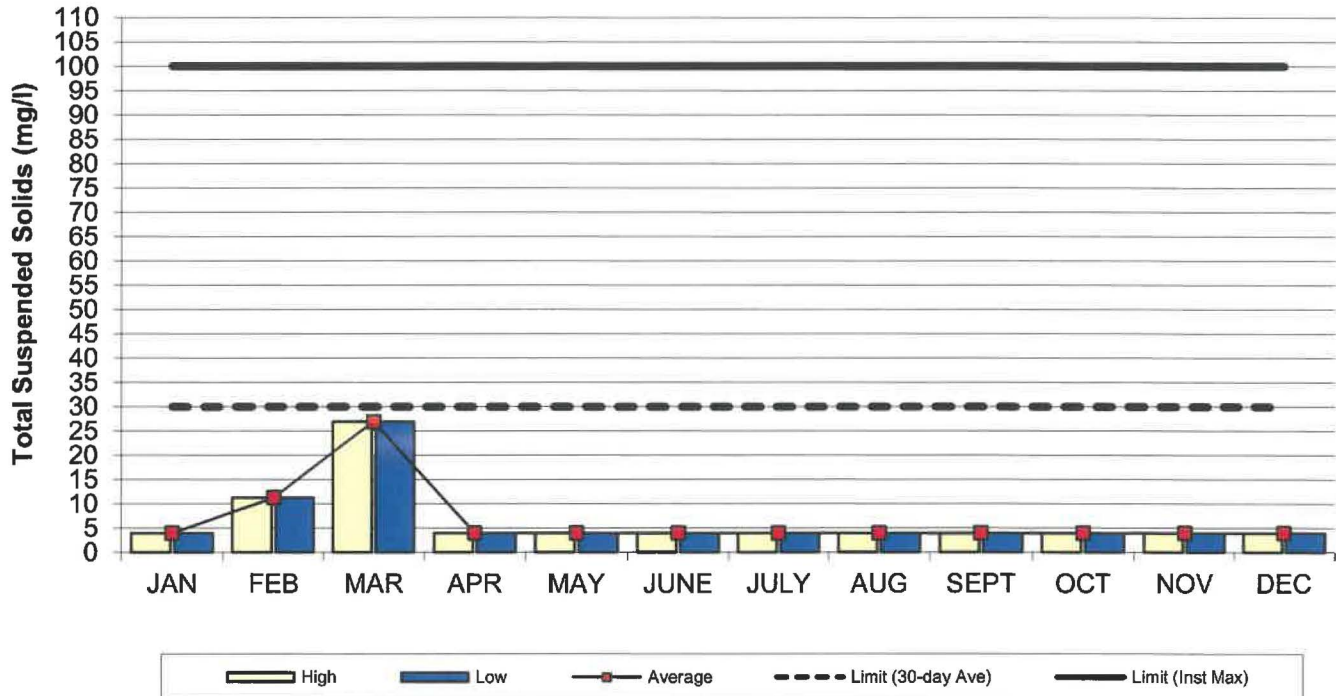


EFFLUENT 002D Condensate Polisher Neutralization Tank

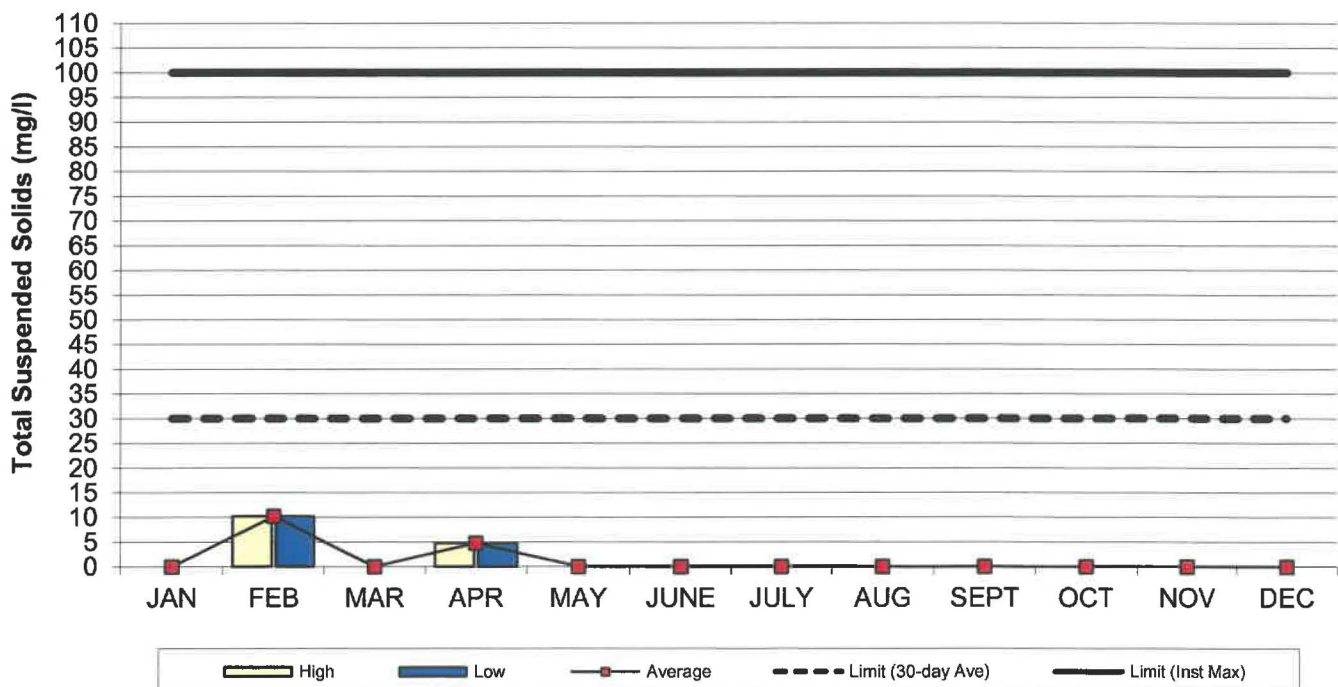


MOSS LANDING POWER PLANT NPDES ANNUAL SUMMARY REPORT - 2018

EFFLUENT 002E Treated Wastewater Sump

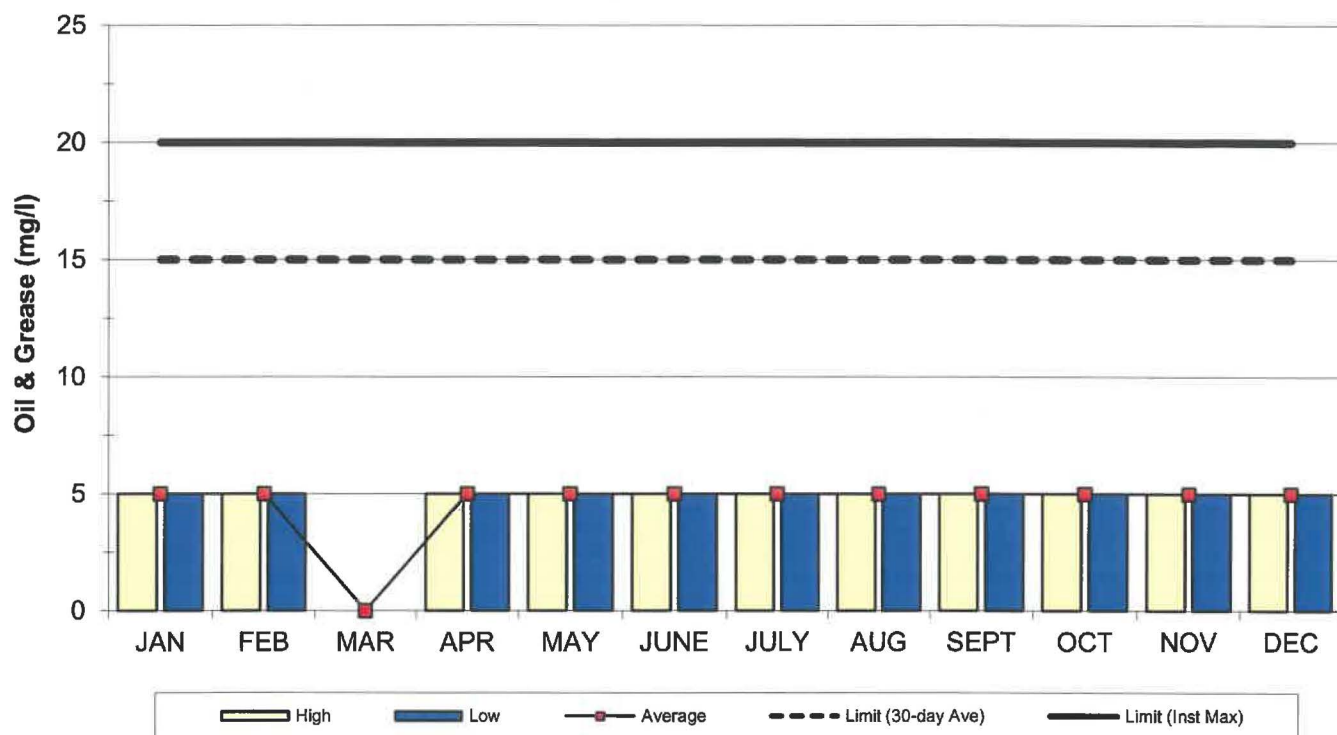


EFFLUENT 002E5 Air/Preheater/Fireside & Stack Wash Water

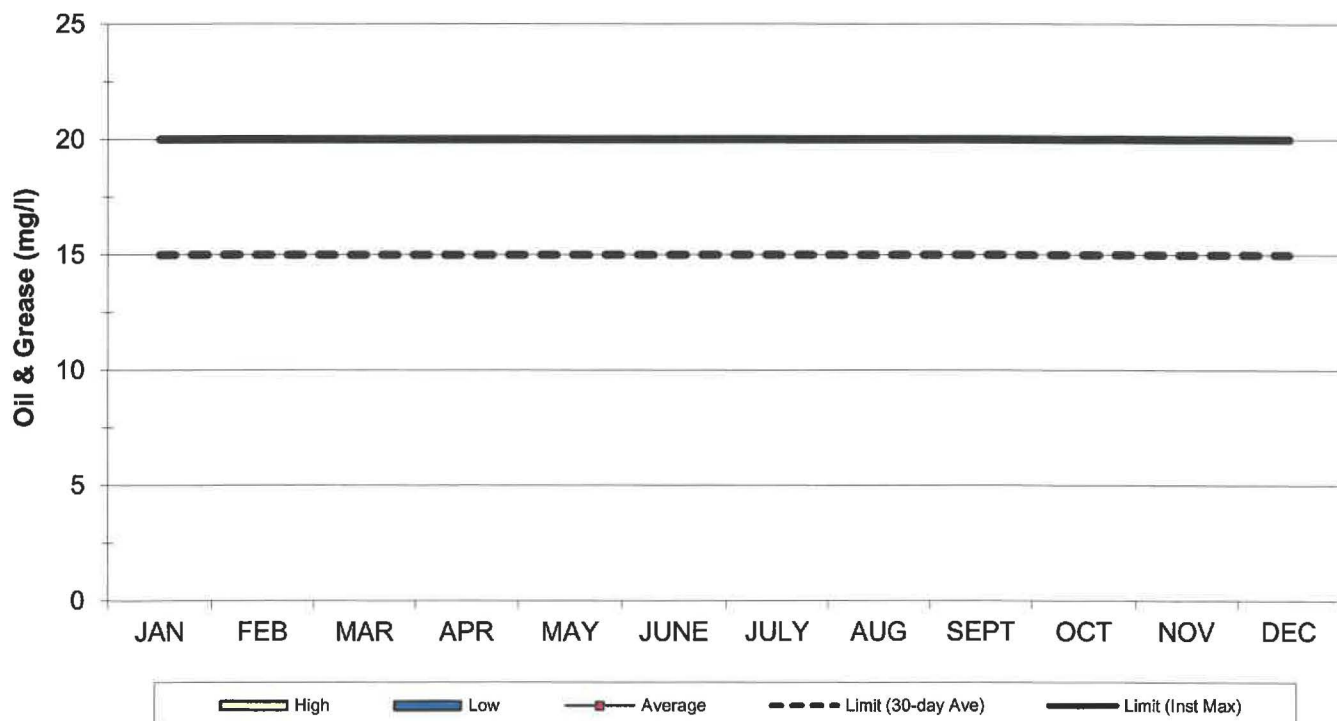


MOSS LANDING POWER PLANT NPDES ANNUAL SUMMARY REPORT - 2018

EFFLUENT 002B
Seawater Evaporator Blowdown

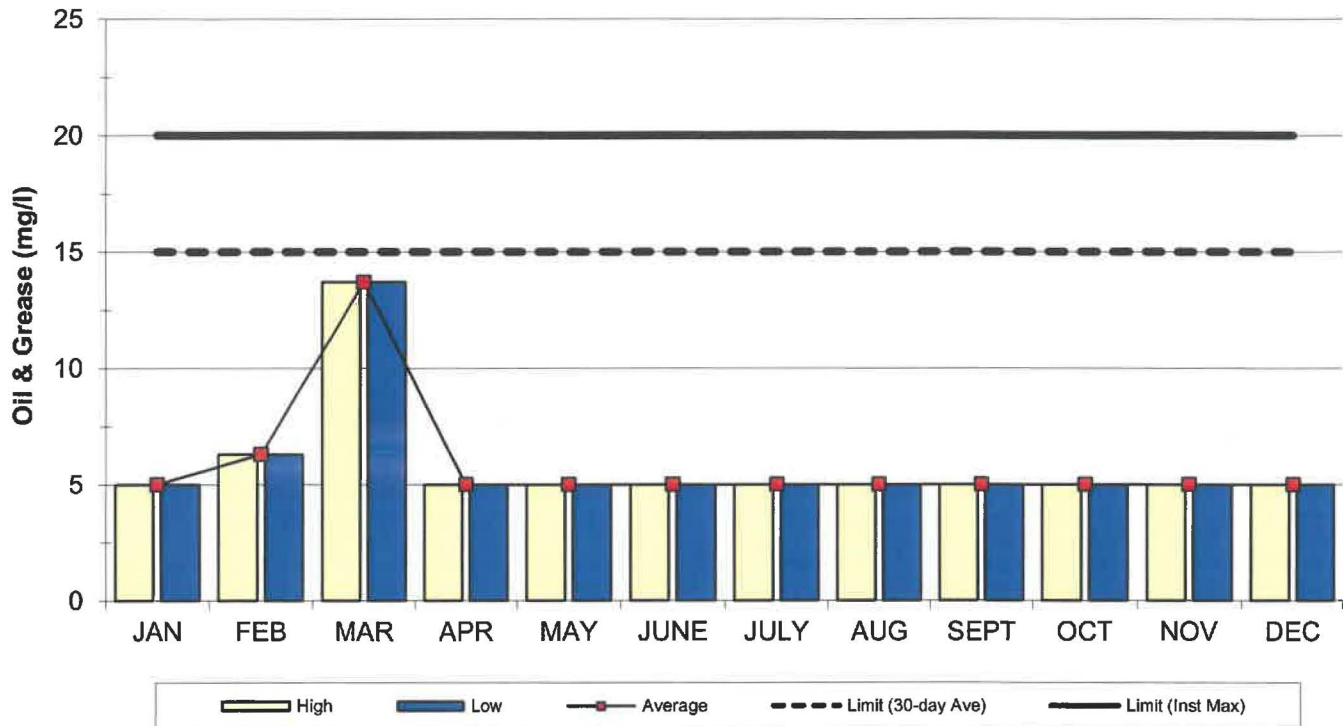


EFFLUENT 002D
Condensate Polisher Neutralization Tank



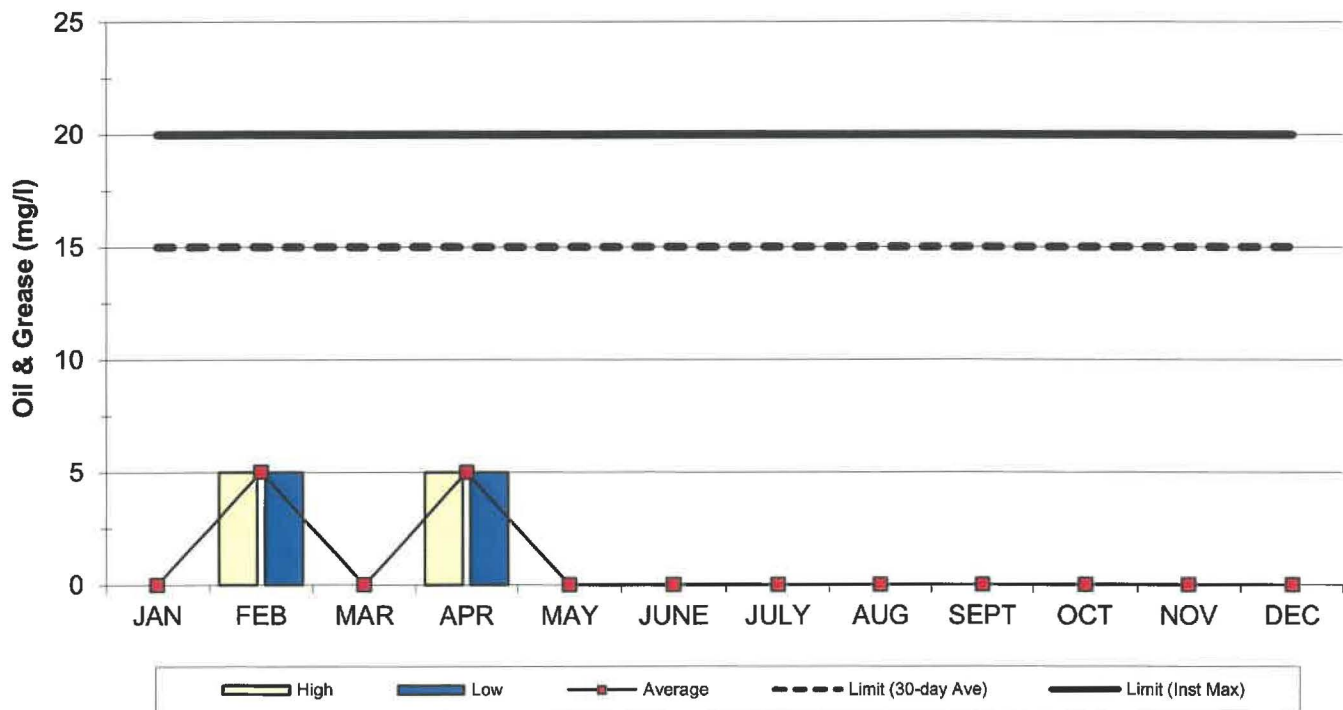
MOSS LANDING POWER PLANT NPDES ANNUAL SUMMARY REPORT - 2018

EFFLUENT 002E
Treated Wastewater Sump



*** January exceedance, increased sampling frequency as soon as the exceedance became known. ***

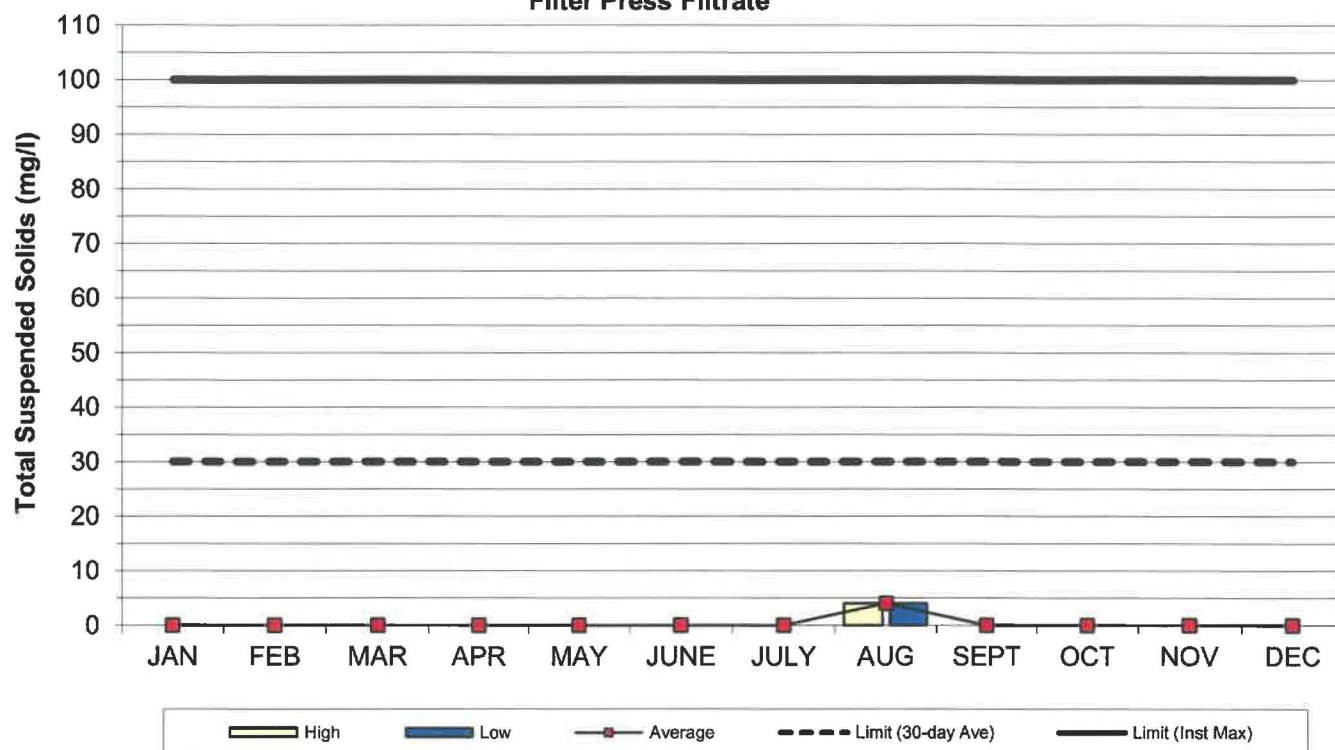
EFFLUENT 002E5
Air Preheater/Fireside & Stack Wash Water



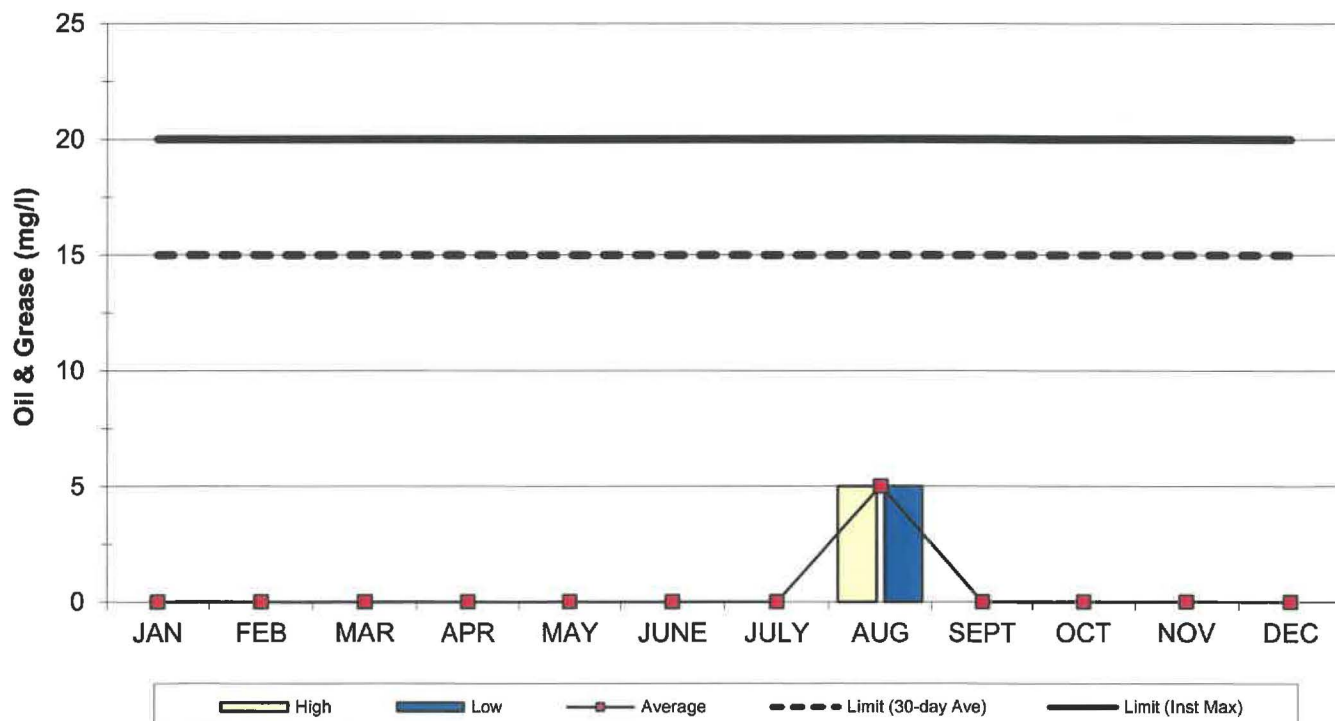
MOSS LANDING POWER PLANT

NPDES ANNUAL SUMMARY REPORT - 2018

EFFLUENT 002E3
Filter Press Filtrate



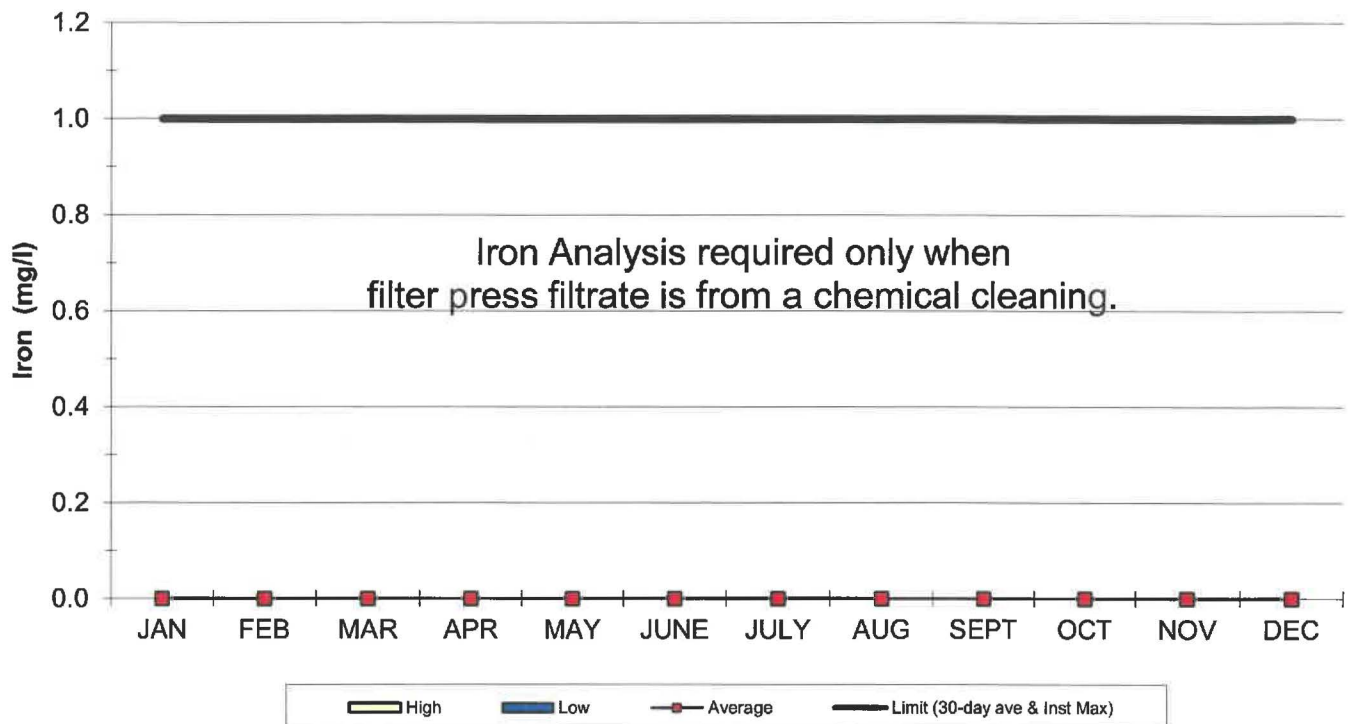
EFFLUENT 002E3
Filter Press Filtrate



MOSS LANDING POWER PLANT

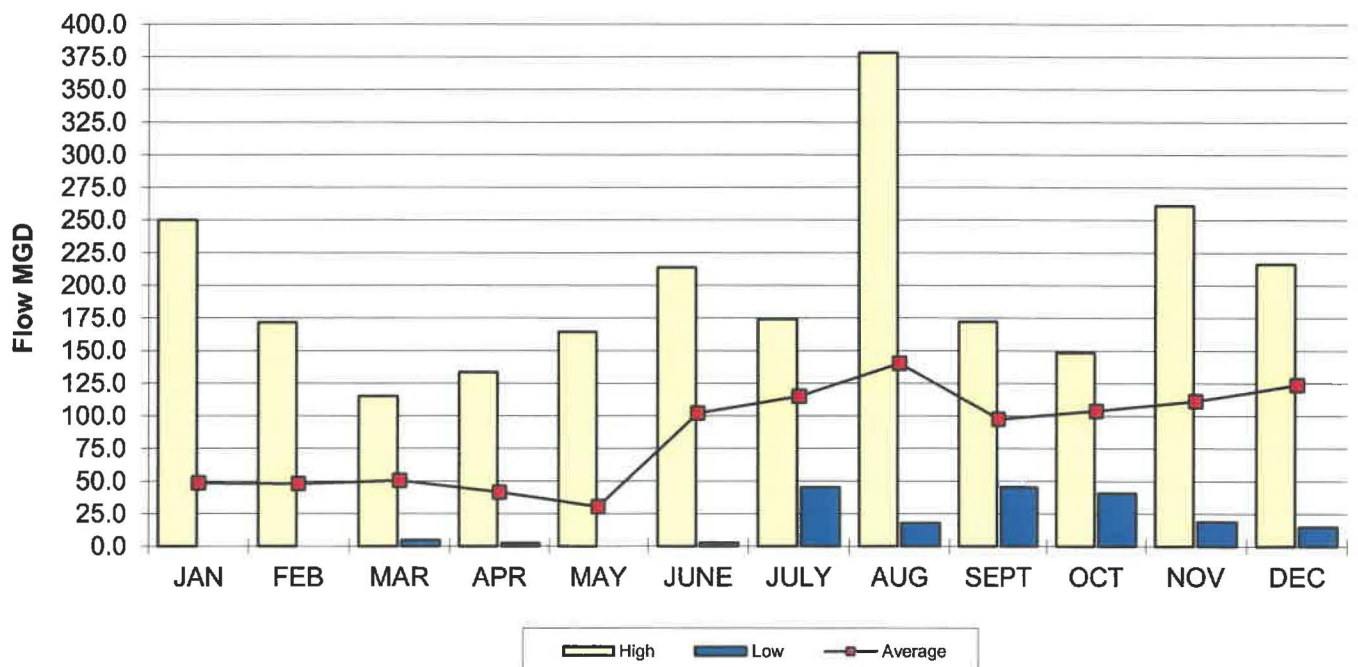
NPDES ANNUAL SUMMARY REPORT - 2018

EFFLUENT 002E3 Filter Press Filtrate

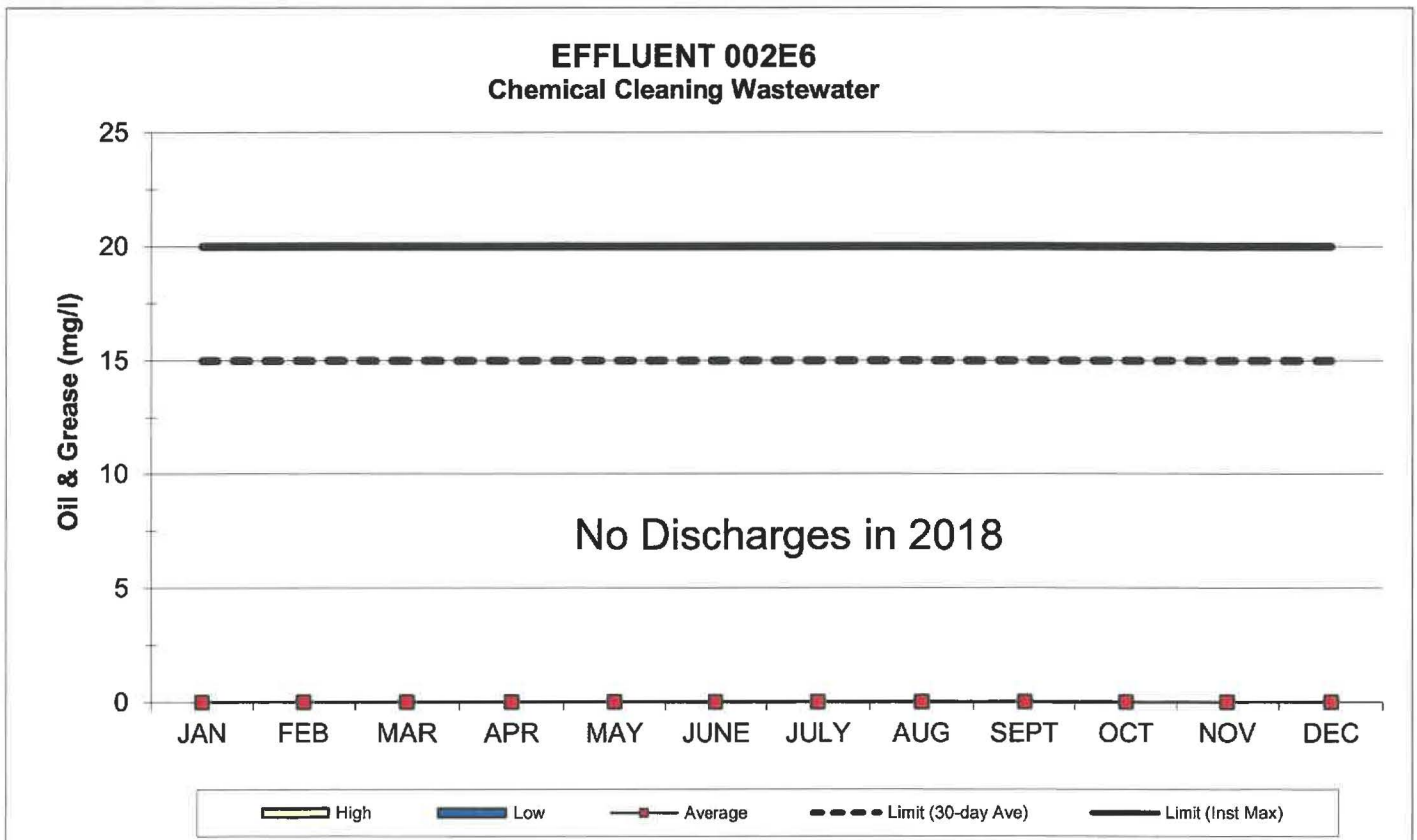
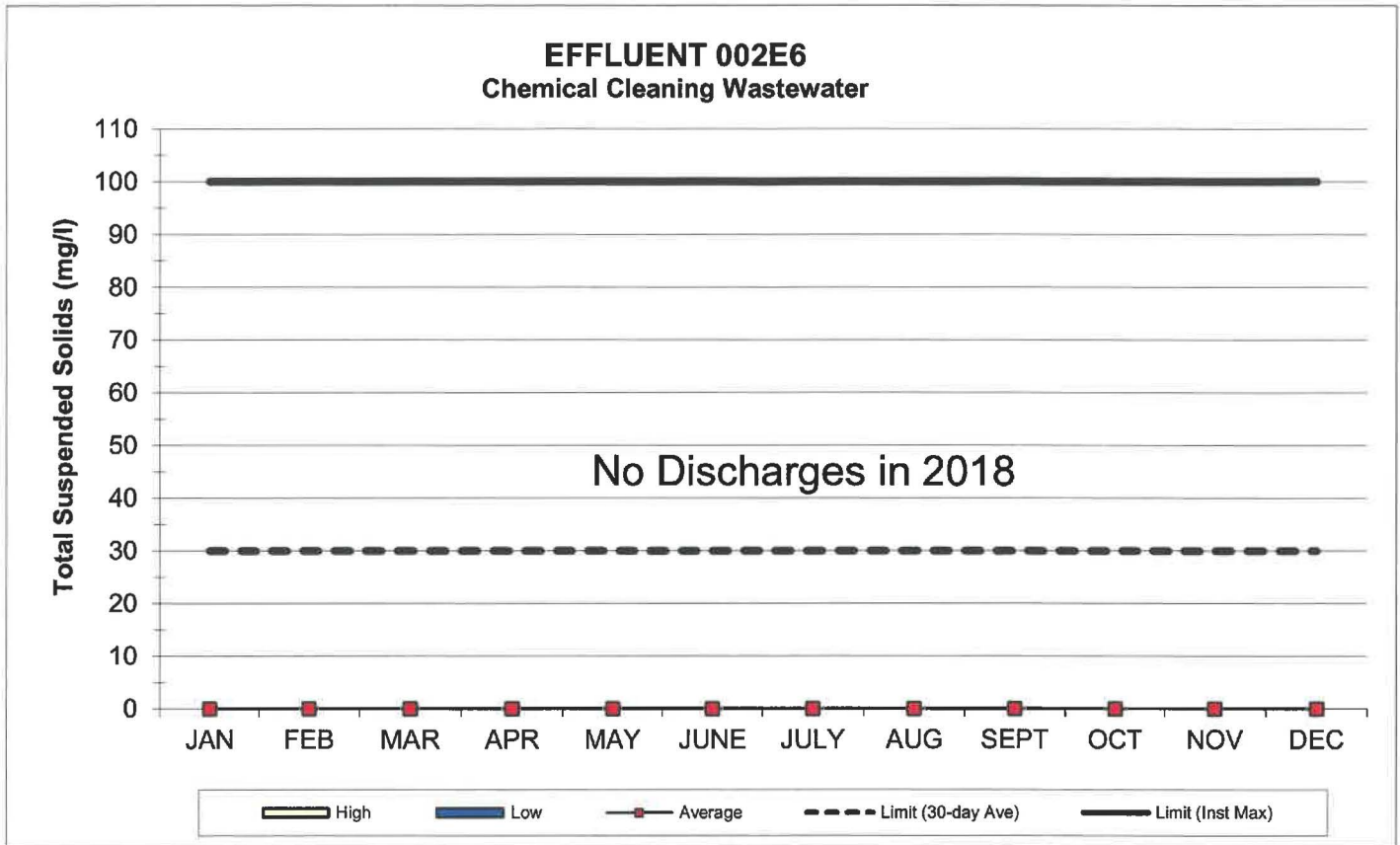


NOTE: Copper and iron analysis not required for EFFL 002E3 due to no chemical cleaning performed.

EFFLUENT 002E4 Boiler Blowdown

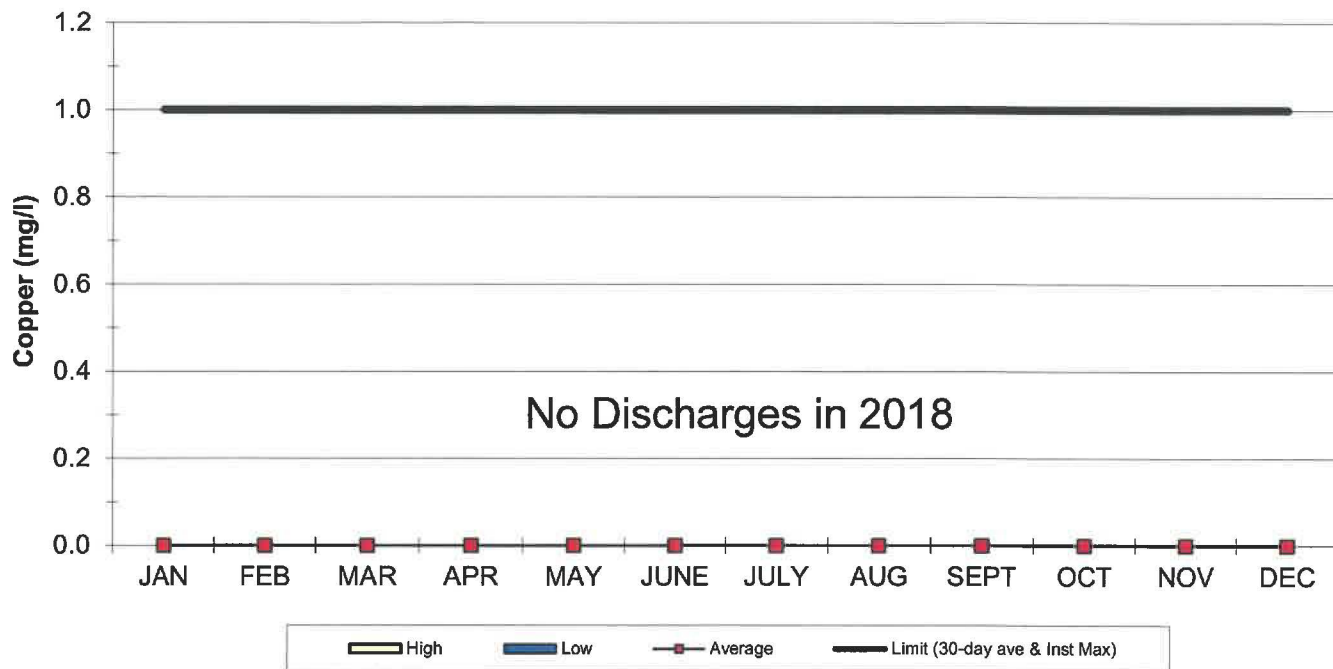


**MOSS LANDING POWER PLANT
NPDES ANNUAL SUMMARY REPORT - 2018**

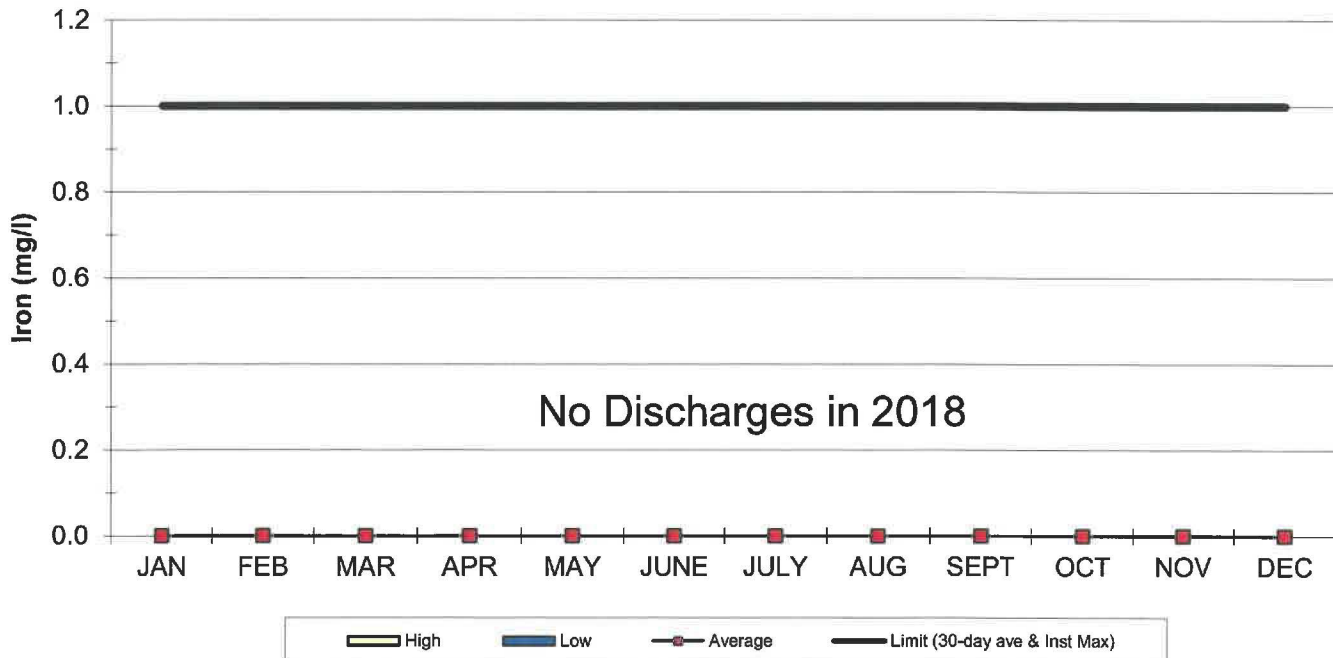


**MOSS LANDING POWER PLANT
NPDES ANNUAL SUMMARY REPORT - 2018**

**EFFLUENT 002E6
Chemical Cleaning Wastewater**



**EFFLUENT 002E6
Chemical Cleaning Wastewater**

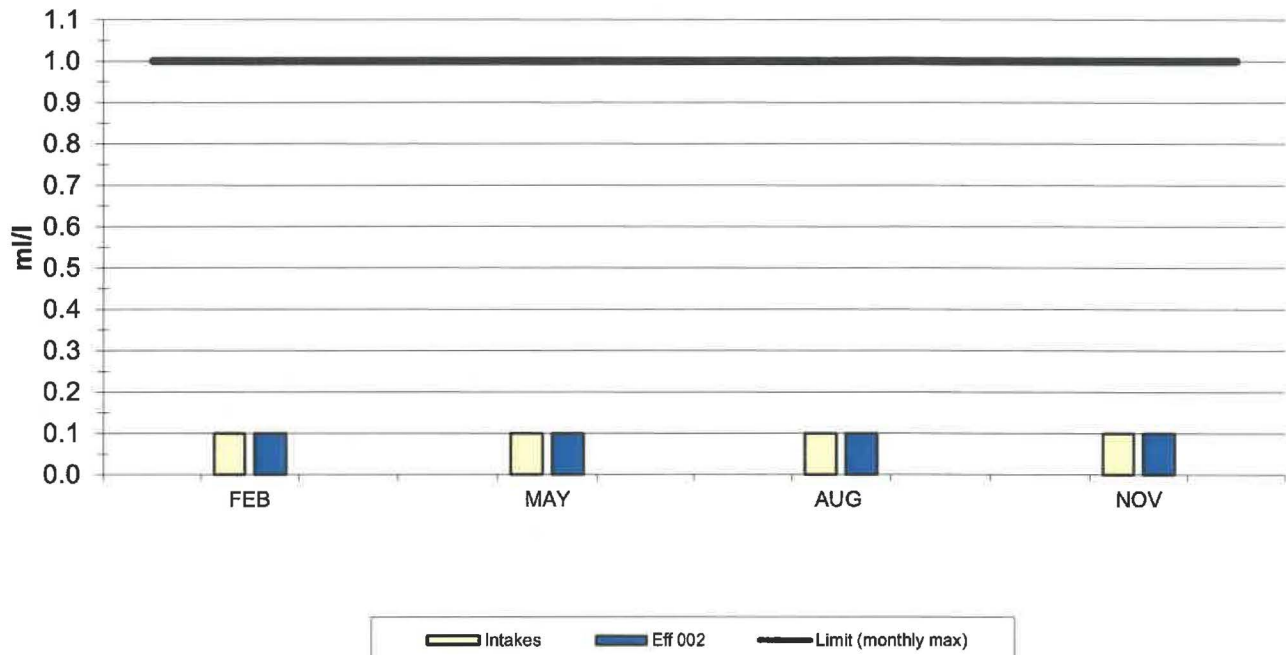


MOSS LANDING POWER PLANT

NPDES ANNUAL SUMMARY REPORT - 2018

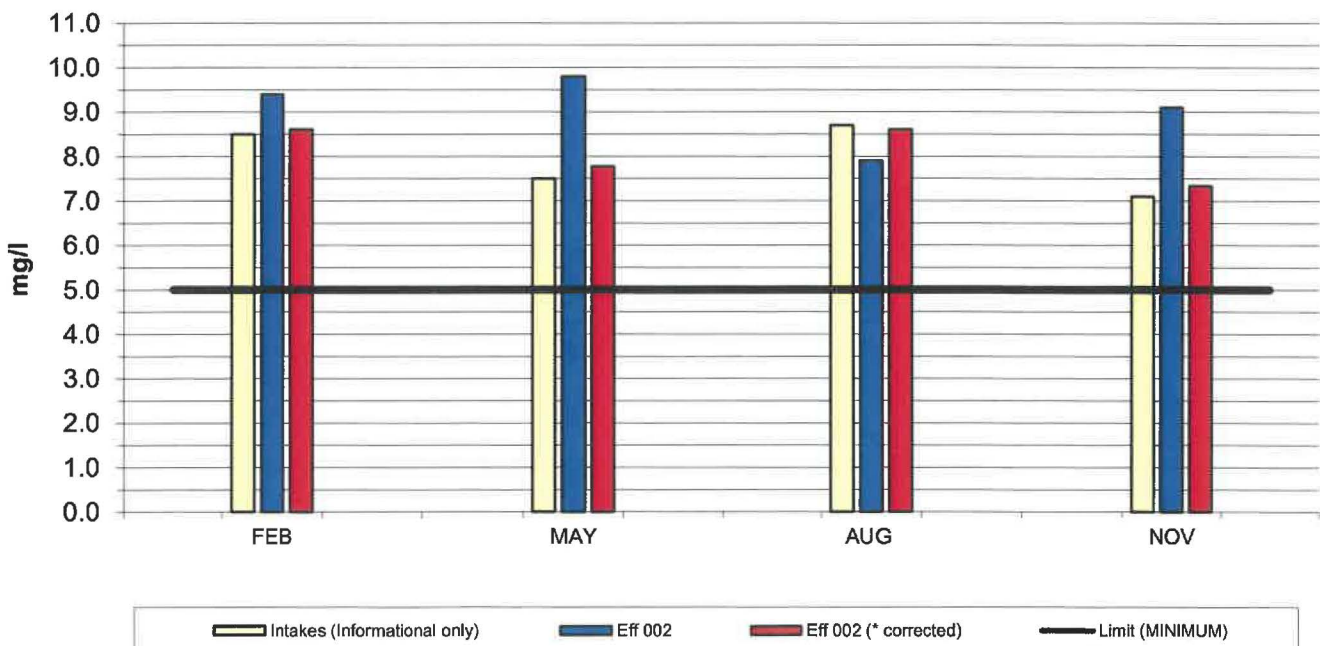
SETTLEABLE SOLIDS

(1.5 ml/l Weekly Max, 3.0 ml/l Inst Max)

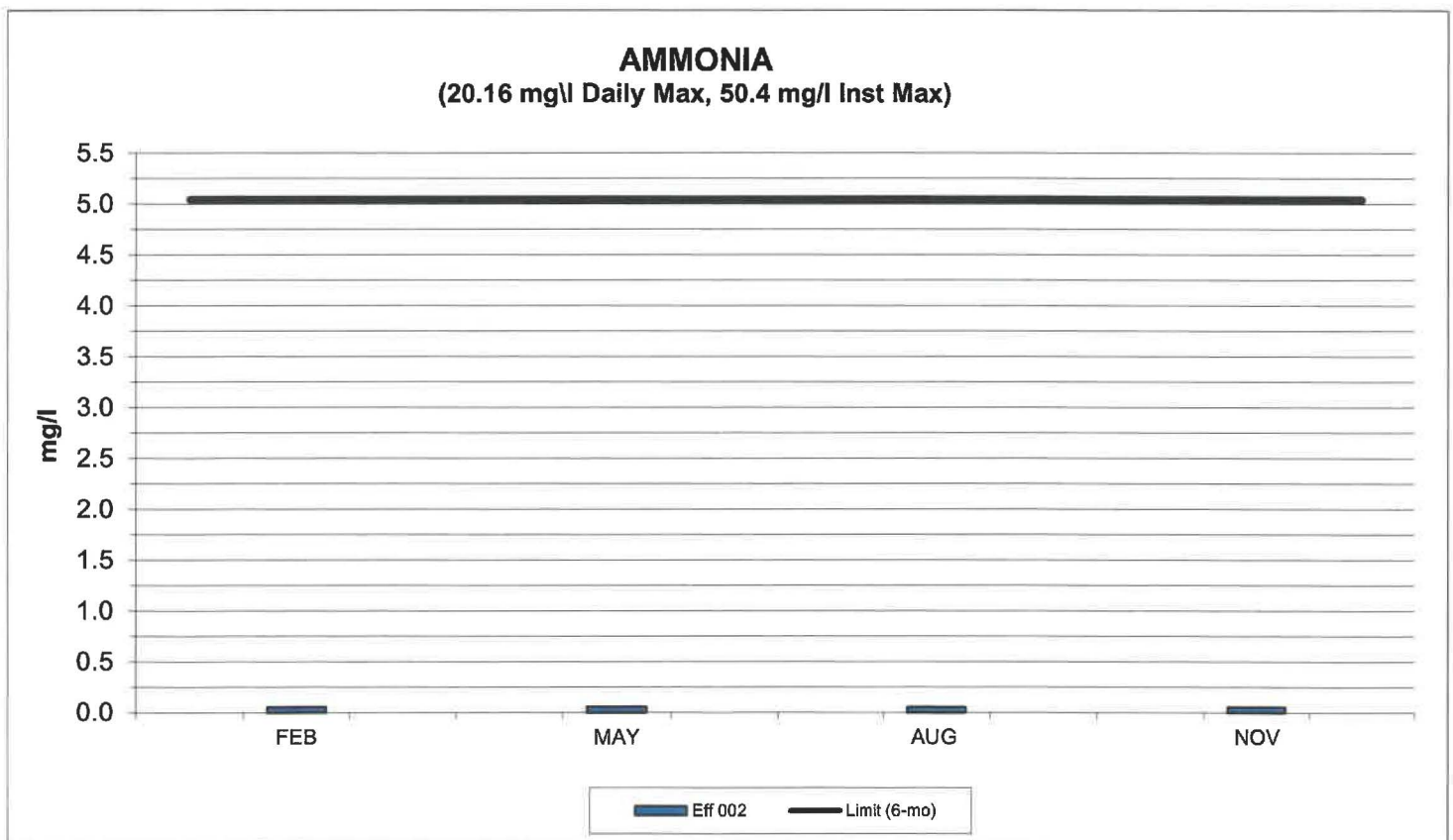
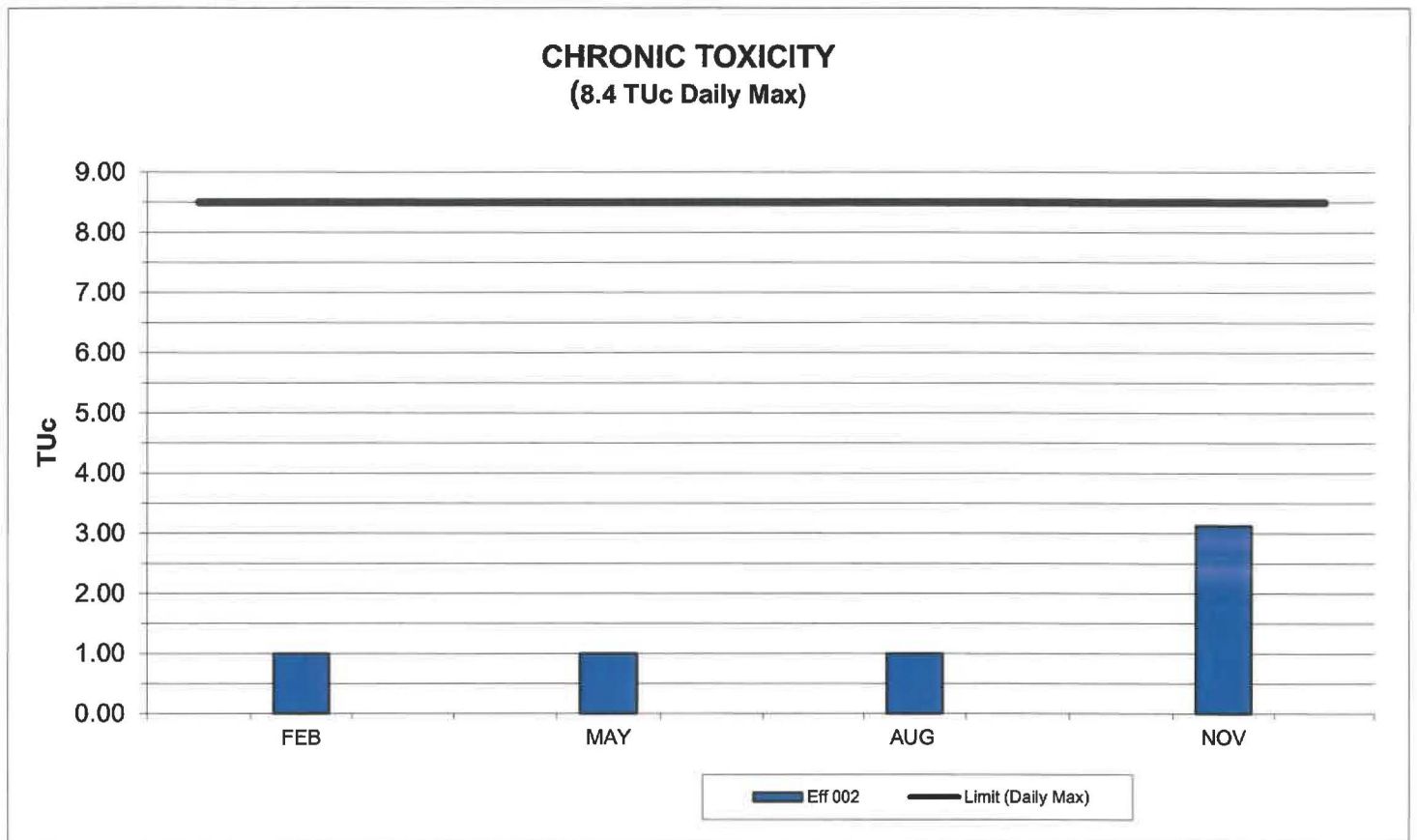


DISSOLVED OXYGEN

(* corrected for 7.4:1 zone of initial dilution)



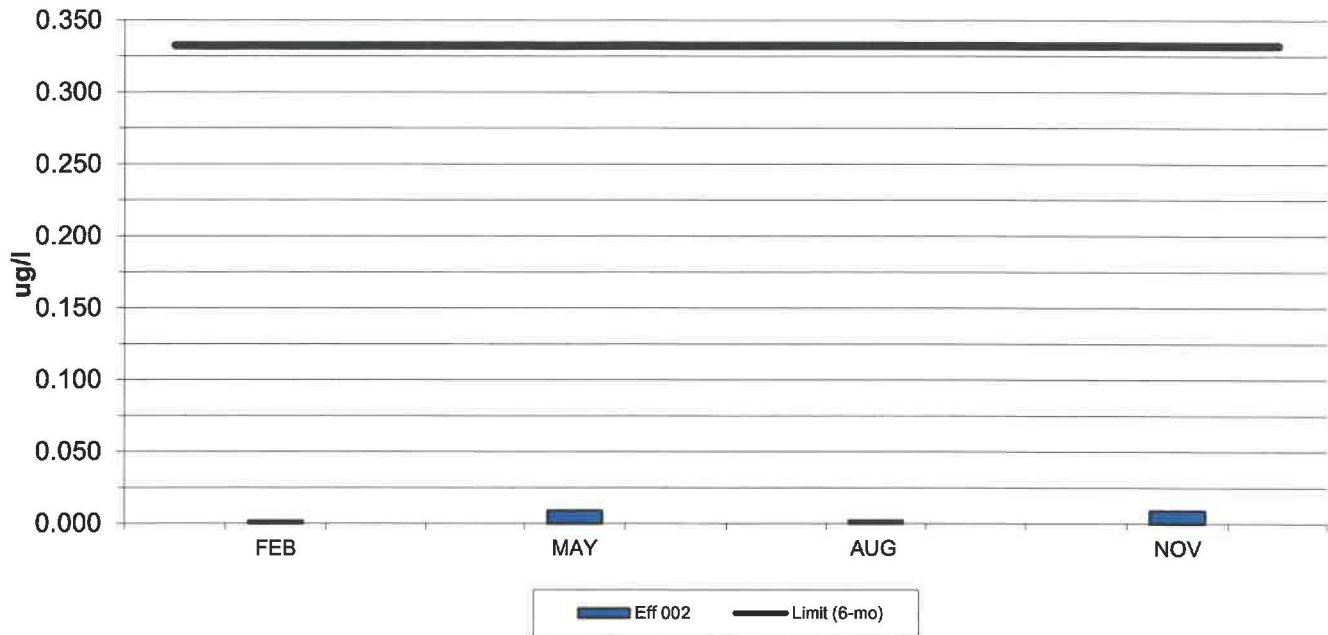
**MOSS LANDING POWER PLANT
NPDES ANNUAL SUMMARY REPORT - 2018**



**MOSS LANDING POWER PLANT
NPDES ANNUAL SUMMARY REPORT - 2018**

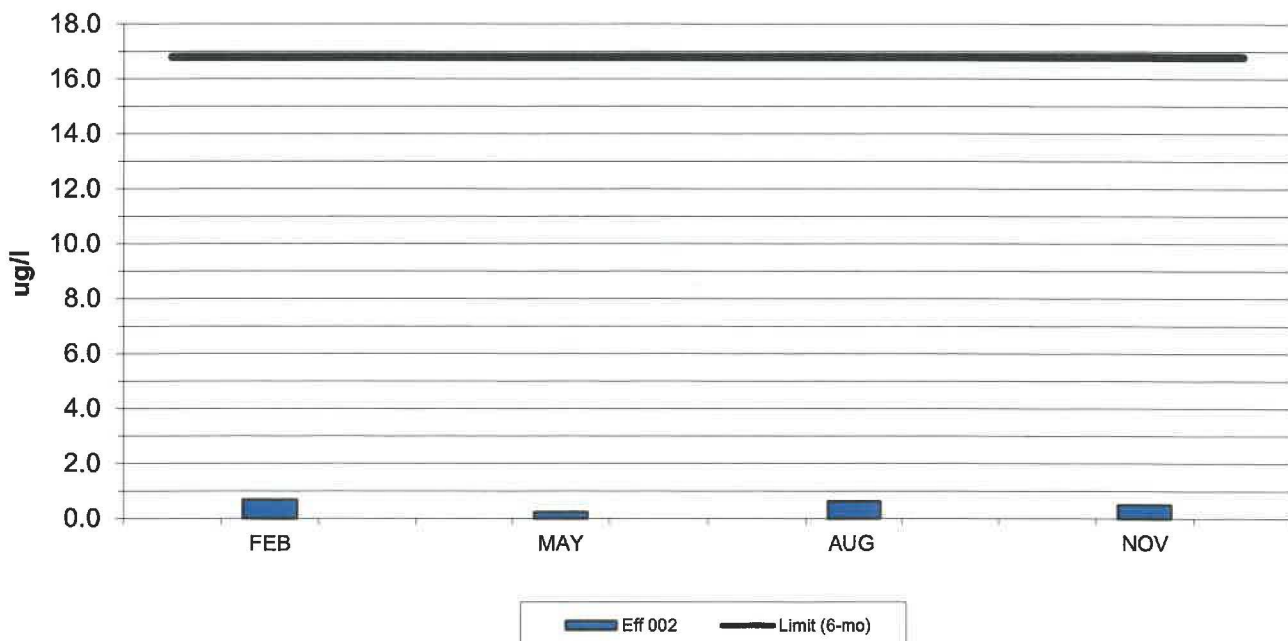
MERCURY

(1.3403 ug/l Daily Max, 3.3563 ug/l Inst Max)



TOTAL CHROMIUM

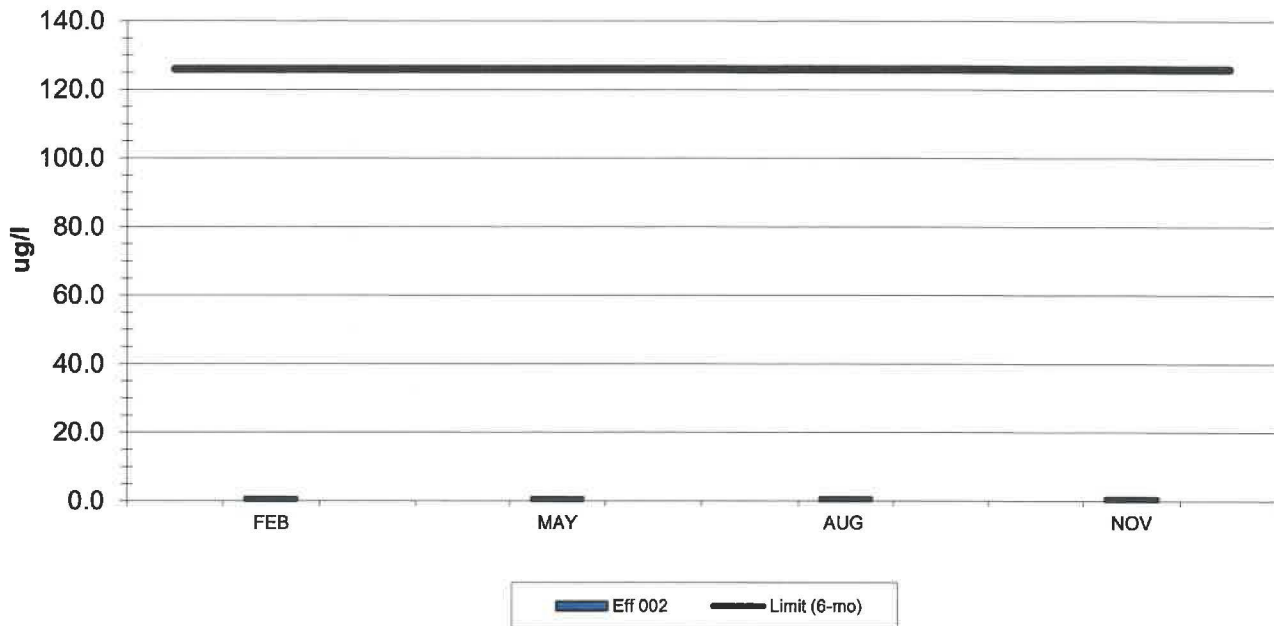
(67.2 ug/l Daily Max, 168 ug/l Inst Max)



**MOSS LANDING POWER PLANT
NPDES ANNUAL SUMMARY REPORT - 2018**

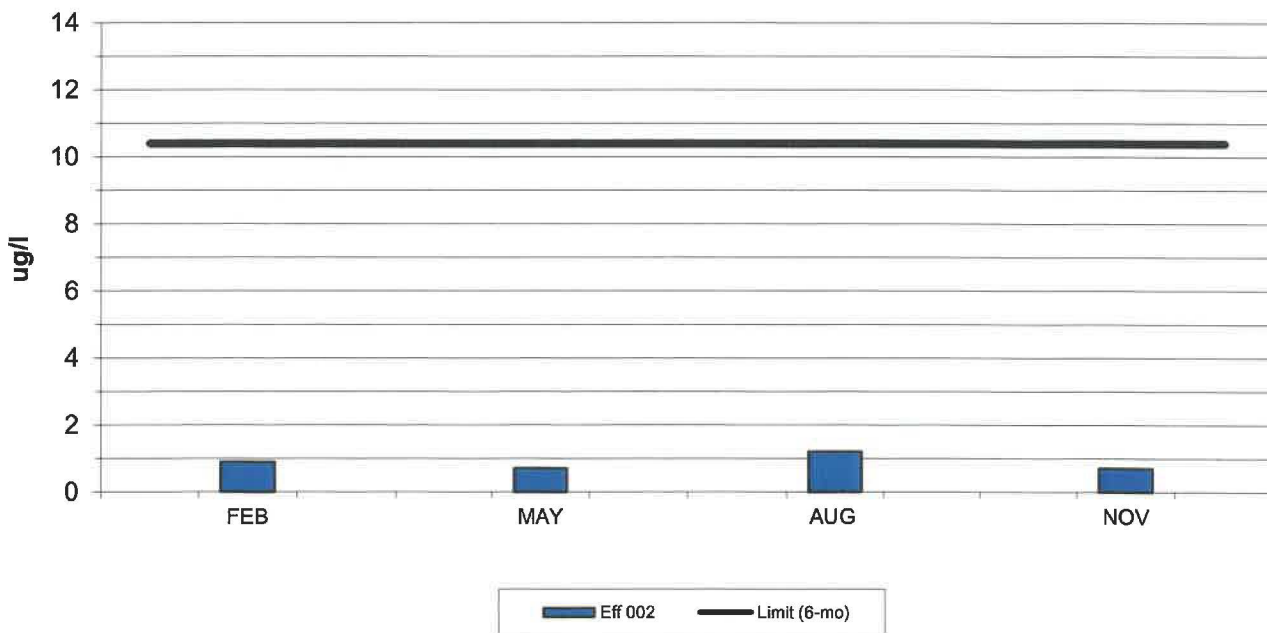
SELENIUM

(504 ug/l Daily Max, 1260 ug/l Inst Max)



COPPER

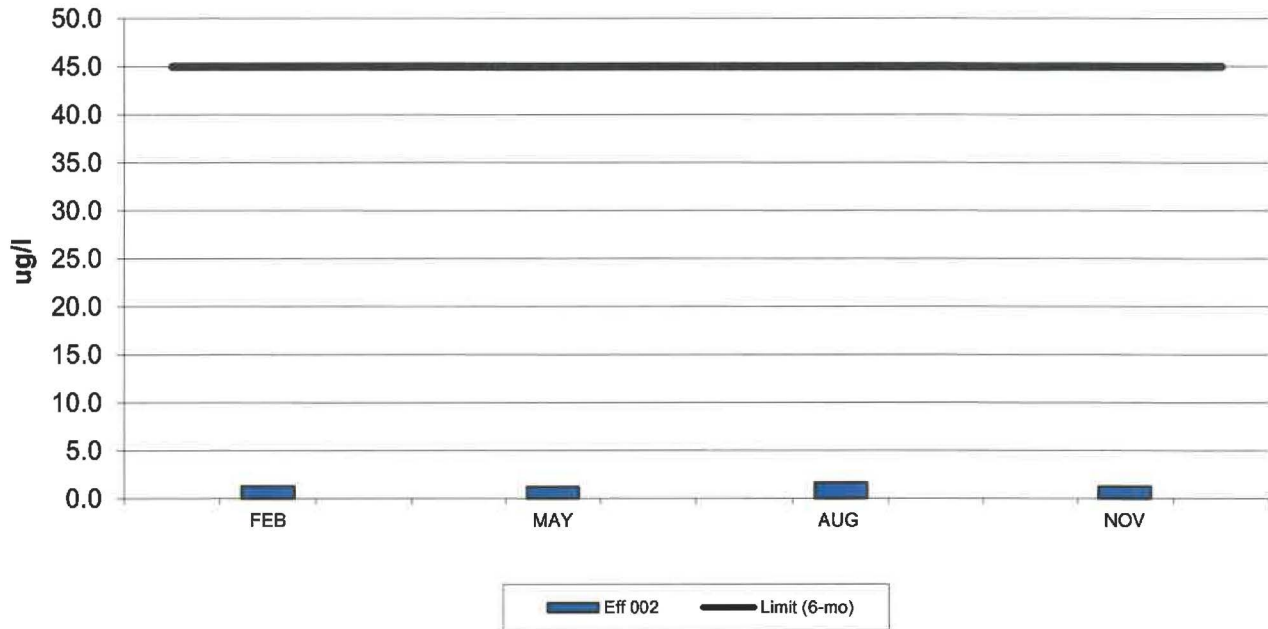
(10 ug/l 6-Mo Median, 86 ug/l Daily Max, 237.2 ug/l Inst Max)



**MOSS LANDING POWER PLANT
NPDES ANNUAL SUMMARY REPORT - 2018**

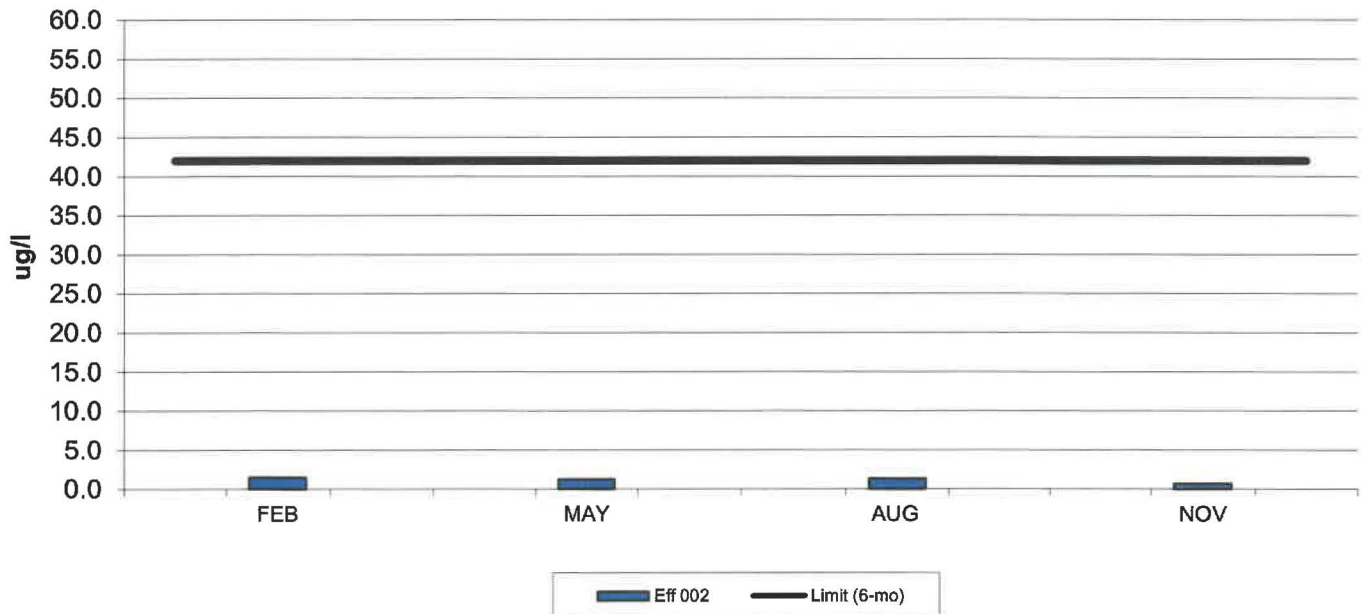
ARSENIC

(246.6 ug/l Daily Max, 649.8 ug/l Inst Max)



NICKEL

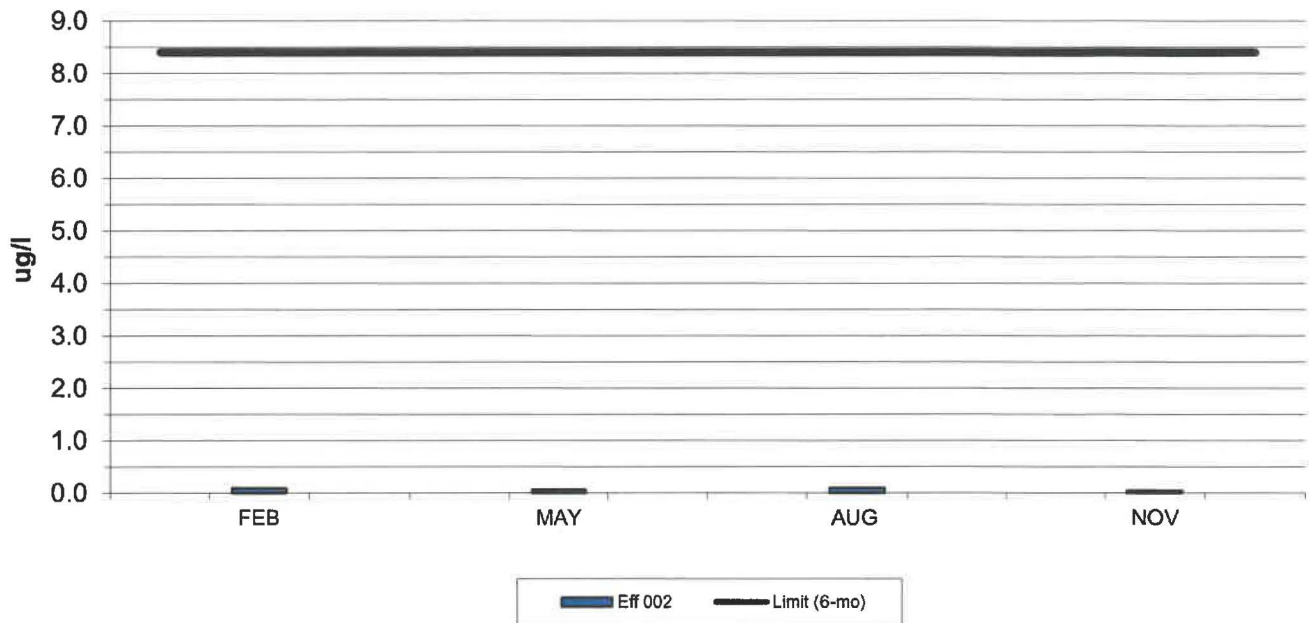
(168 ug/l Daily Max, 420 ug/l Inst Max)



**MOSS LANDING POWER PLANT
NPDES ANNUAL SUMMARY REPORT - 2018**

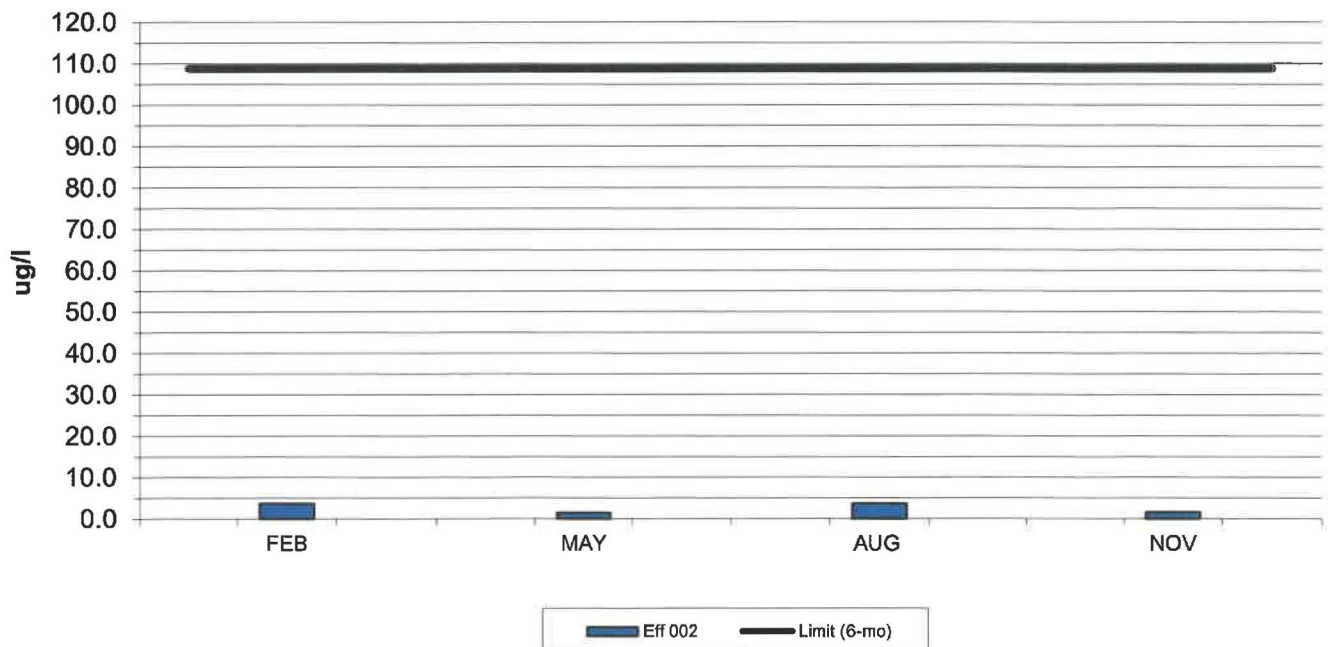
CADMIUM

(33.6 ug/l Daily Max, 84 ug/l Inst Max)



ZINC

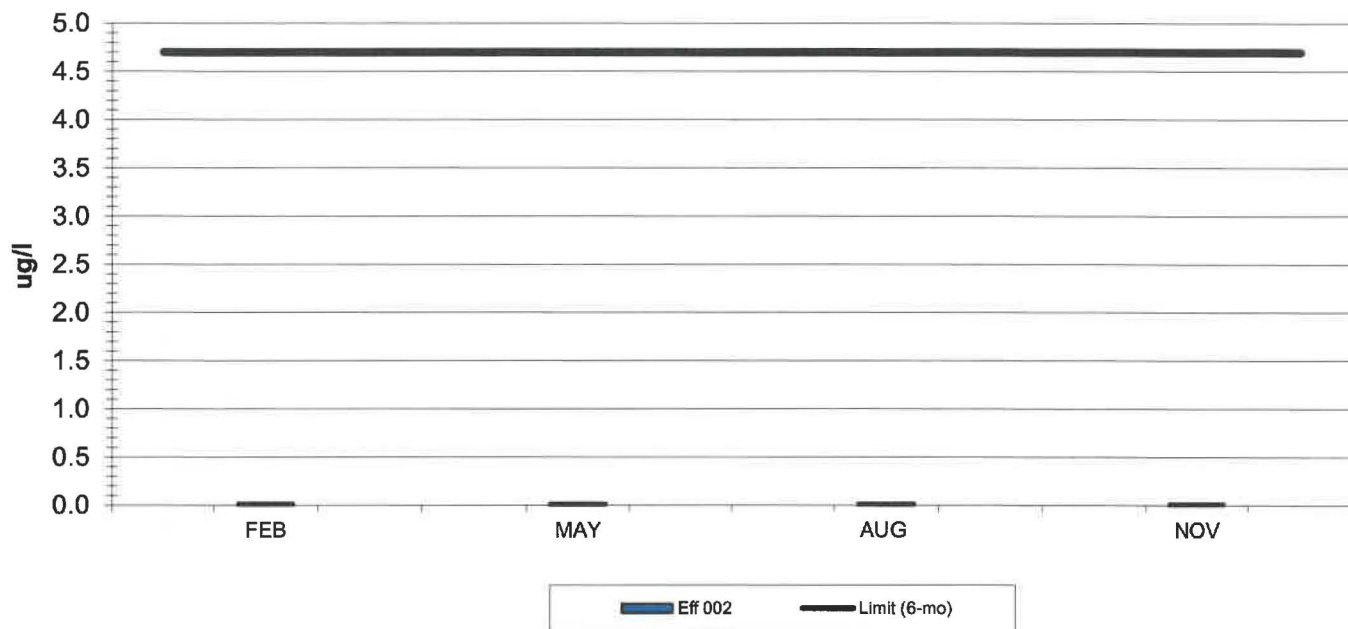
(612.8 ug/l Daily Max, 1620.8 ug/l Inst Max)



**MOSS LANDING POWER PLANT
NPDES ANNUAL SUMMARY REPORT - 2018**

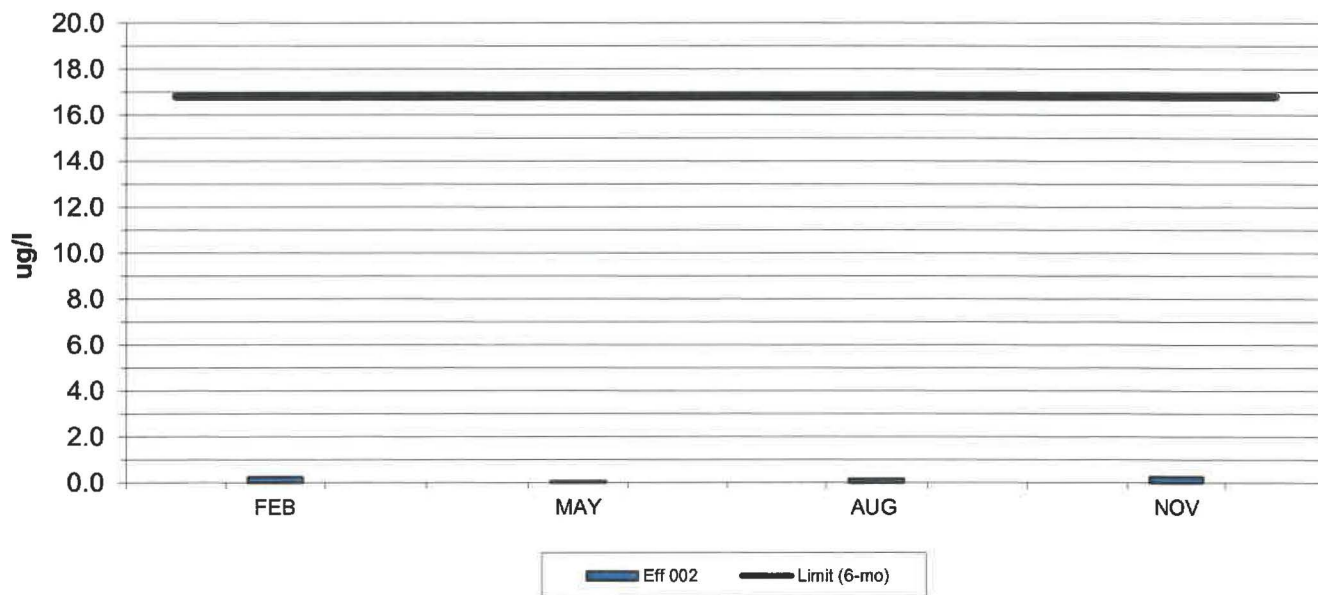
SILVER

(22.34 ug/l Daily Max, 57.62 ug/l Inst Max)



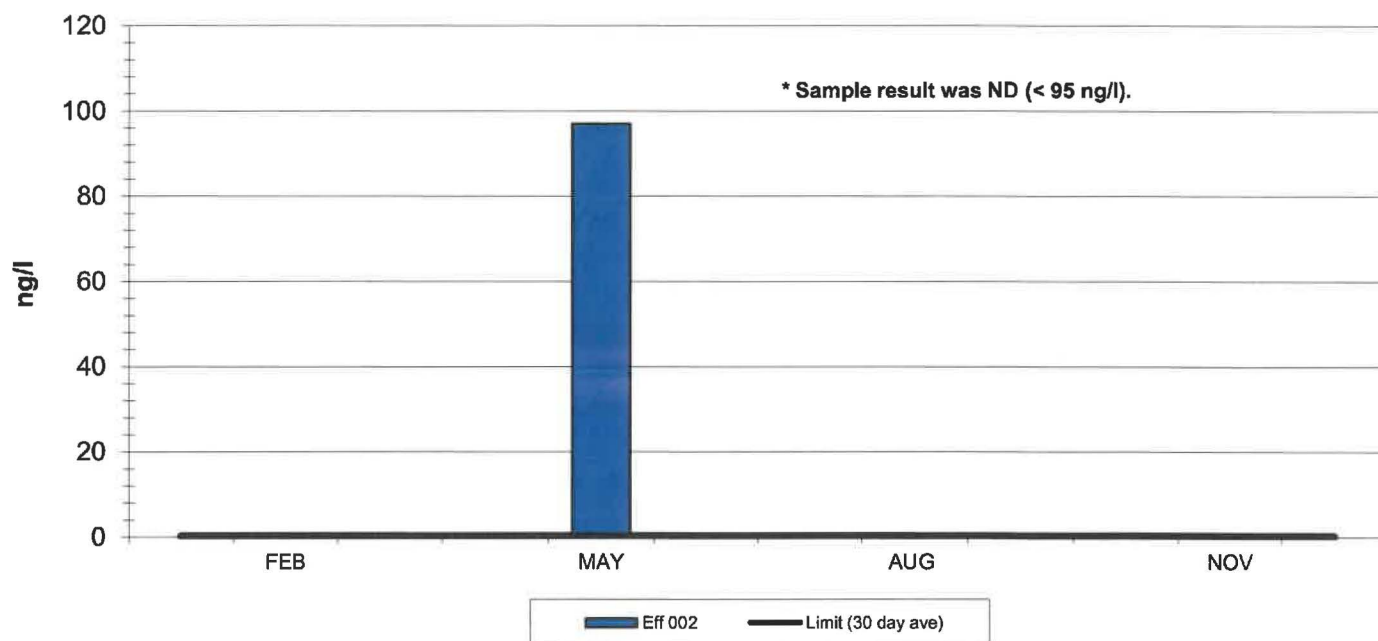
LEAD

(67.2 ug/l Daily Max, 168 ug/l Inst Max)

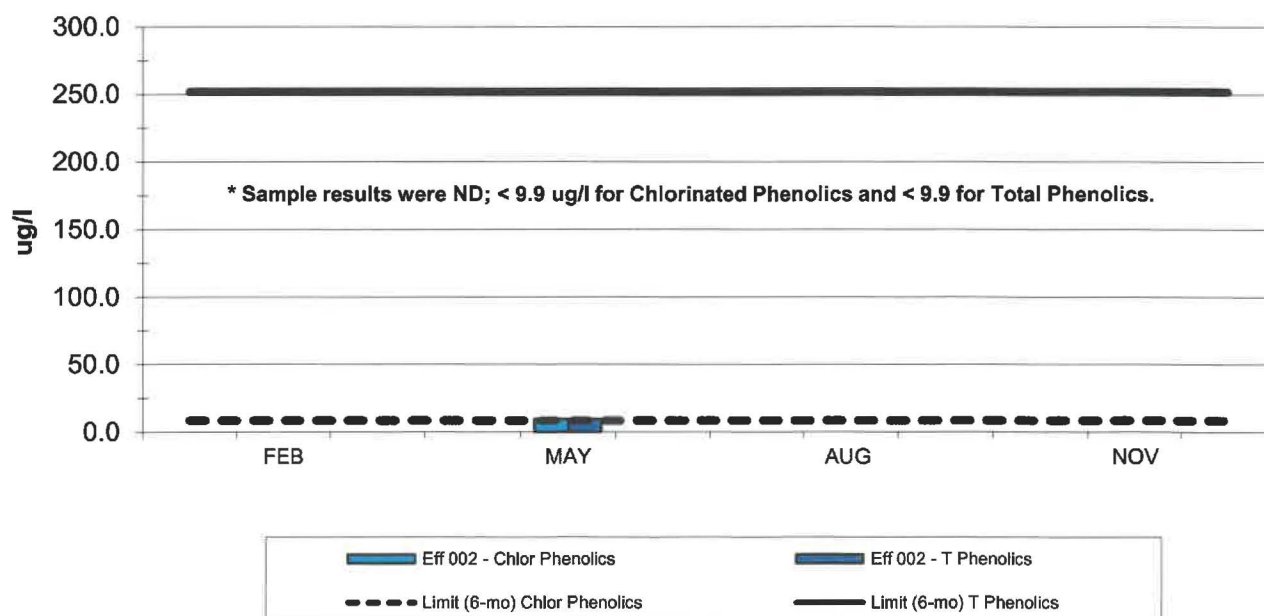


MOSS LANDING POWER PLANT NPDES ANNUAL SUMMARY REPORT - 2018

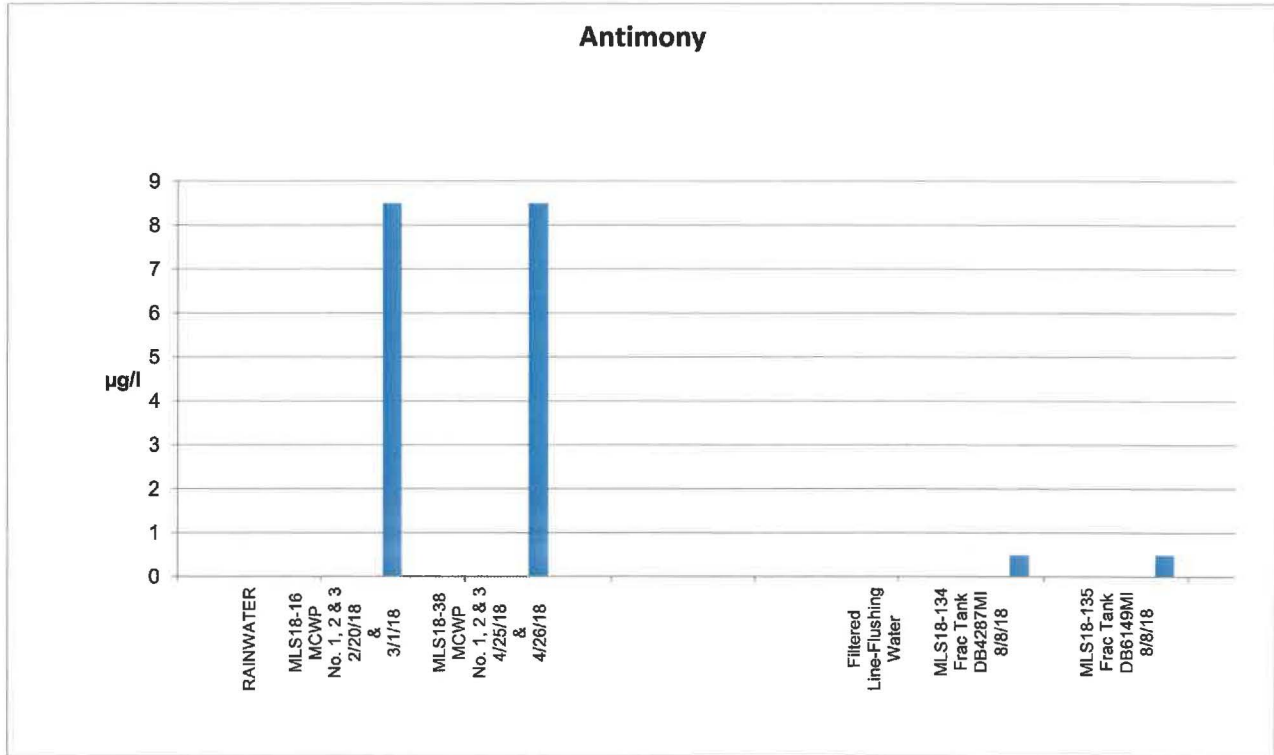
PCB'S (30-day ave 0.160 ng/l)



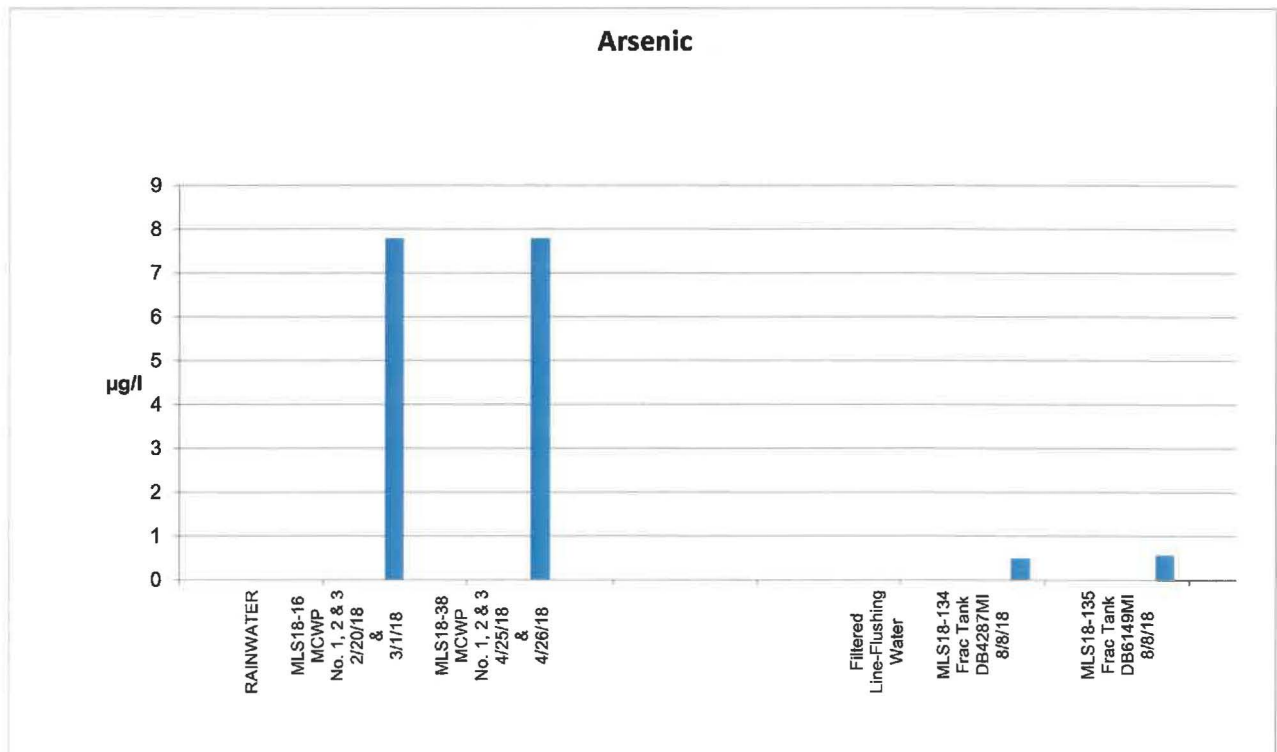
CHLORINATED PHENOLICS (33.6 ug/l Daily Max, 84 ug/l Inst Max) and TOTAL PHENOLICS (1008 ug/l Daily Max, 2520 ug/l Inst Max)



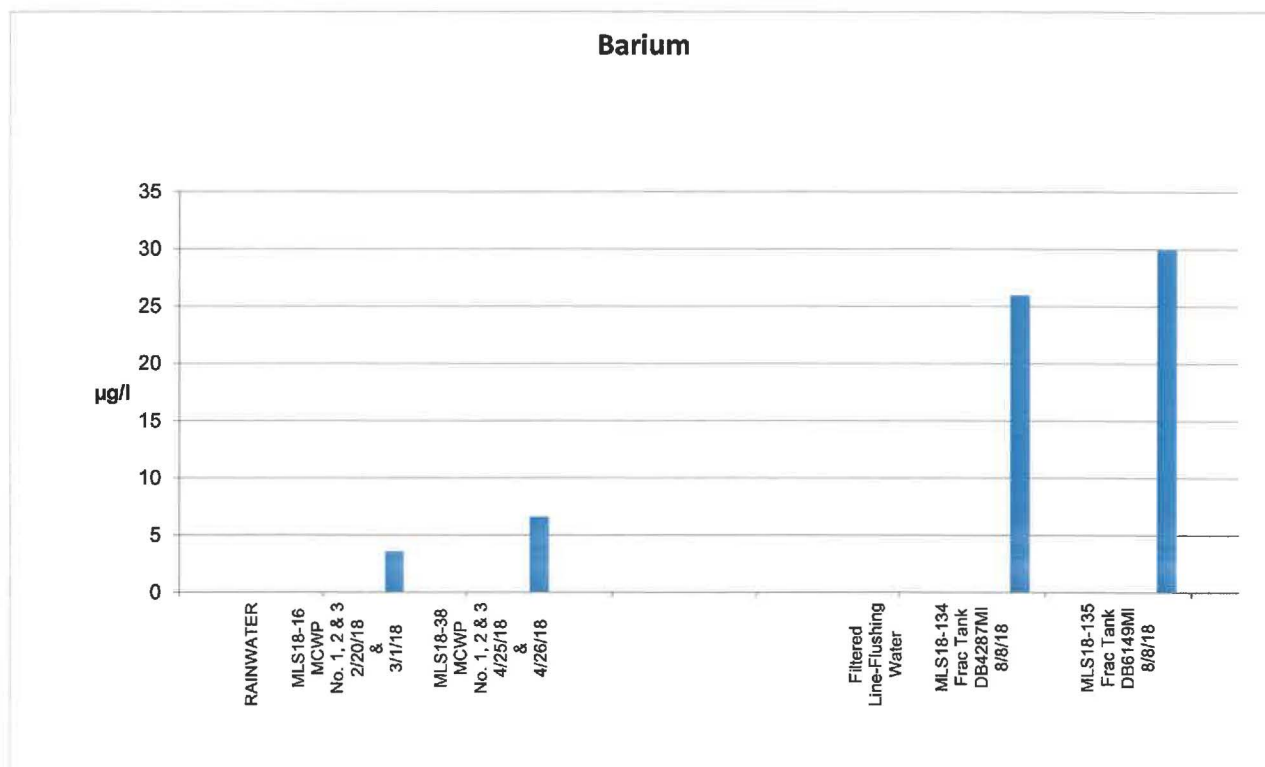
MOSS LANDING POWER PLANT
Analytical Results for Rainwater & Filtered Line-Flushing Water
Discharges from Metal Cleaning Waste Pond Nos. 1, 2 and 3 in 2018



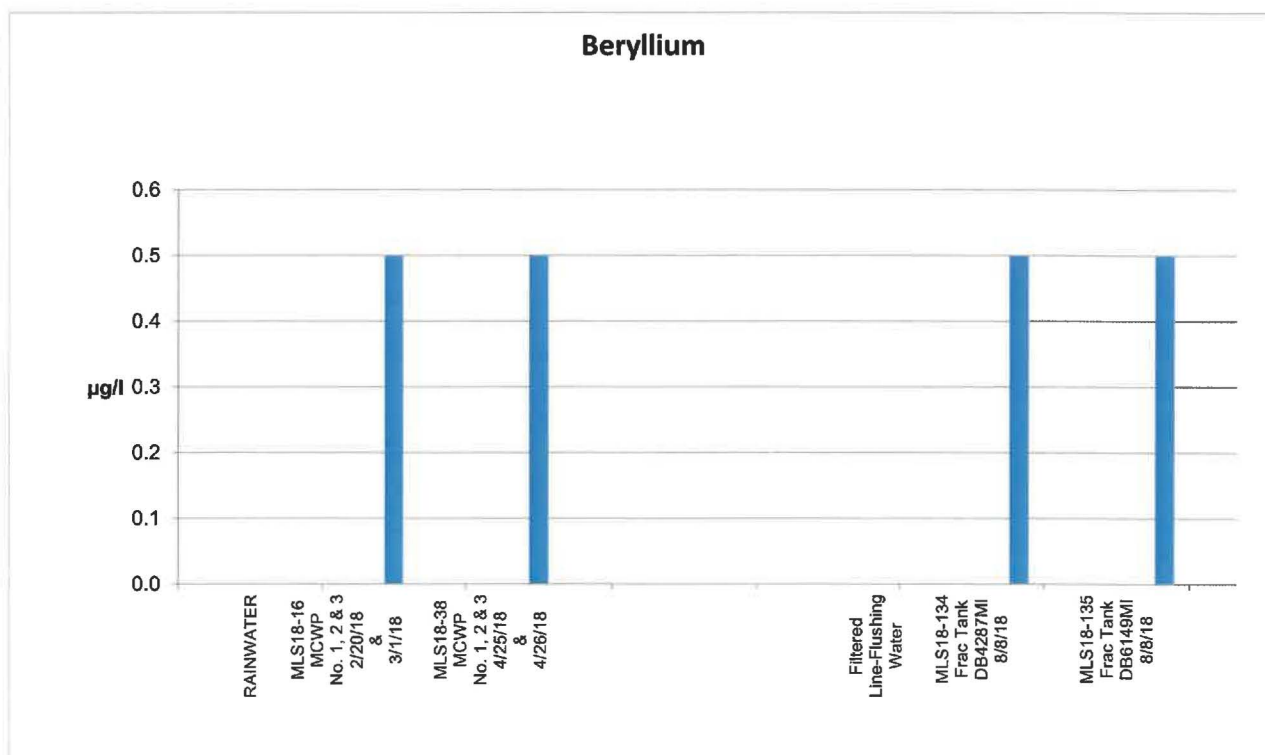
MOSS LANDING POWER PLANT
Analytical Results for Rainwater & Filtered Line-Flushing Water
Discharges from Metal Cleaning Waste Pond Nos. 1, 2 and 3 in 2018



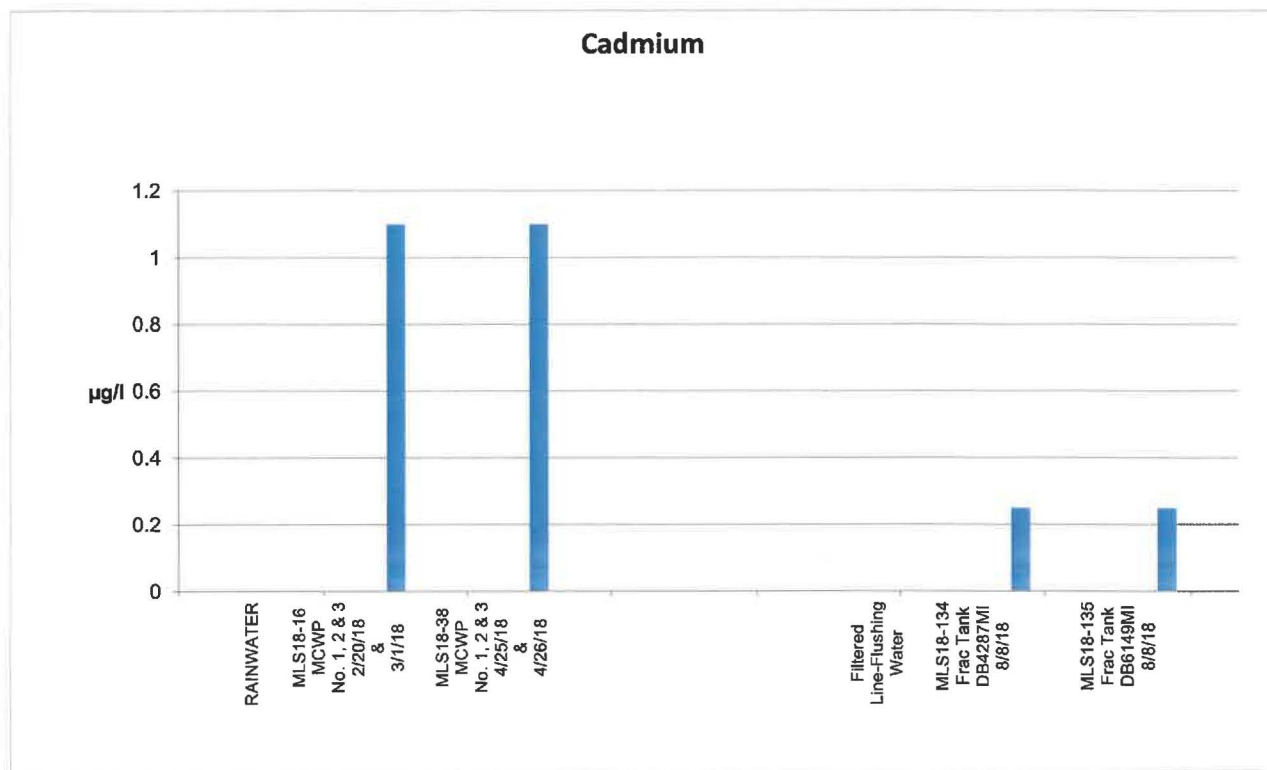
MOSS LANDING POWER PLANT
Analytical Results for Rainwater & Filtered Line-Flushing Water
Discharges from Metal Cleaning Waste Pond Nos. 1, 2 and 3 in 2018



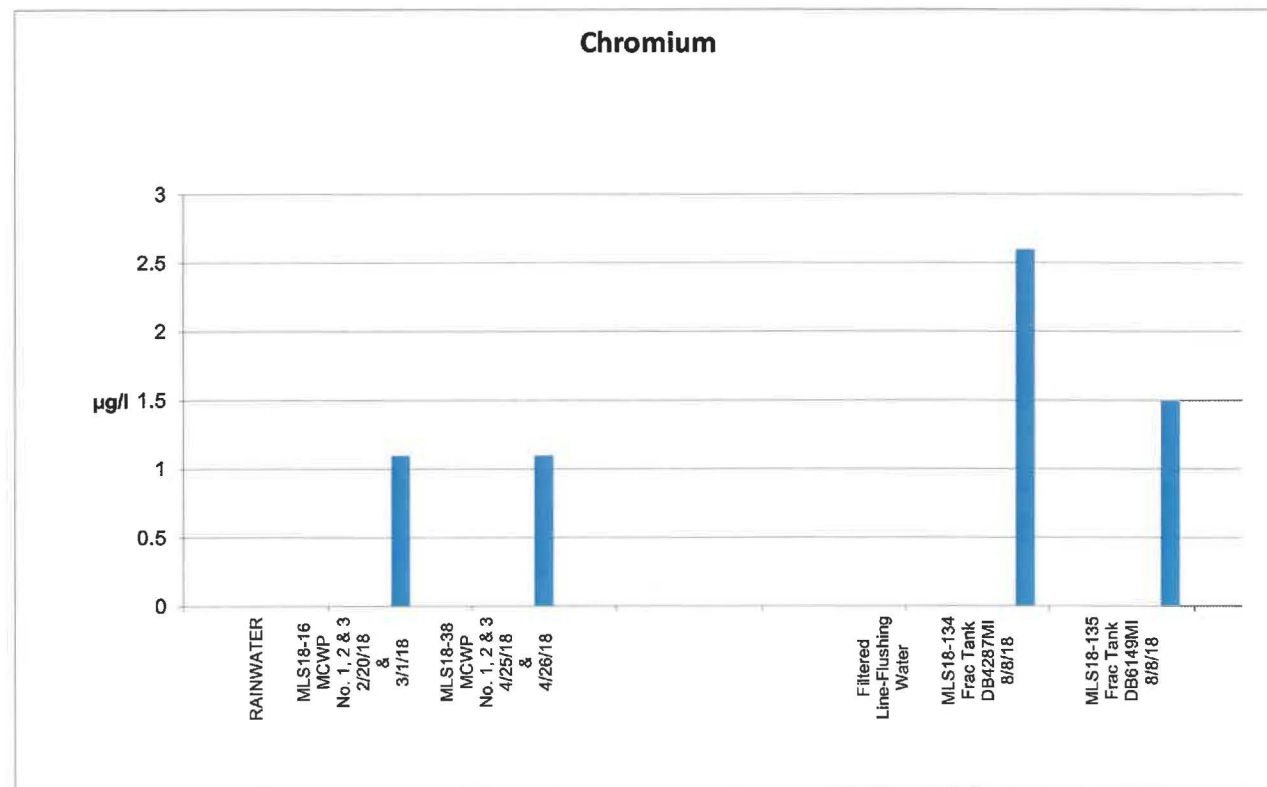
MOSS LANDING POWER PLANT
Analytical Results for Rainwater & Filtered Line-Flushing Water
Discharges from Metal Cleaning Waste Pond Nos. 1, 2 and 3 in 2018



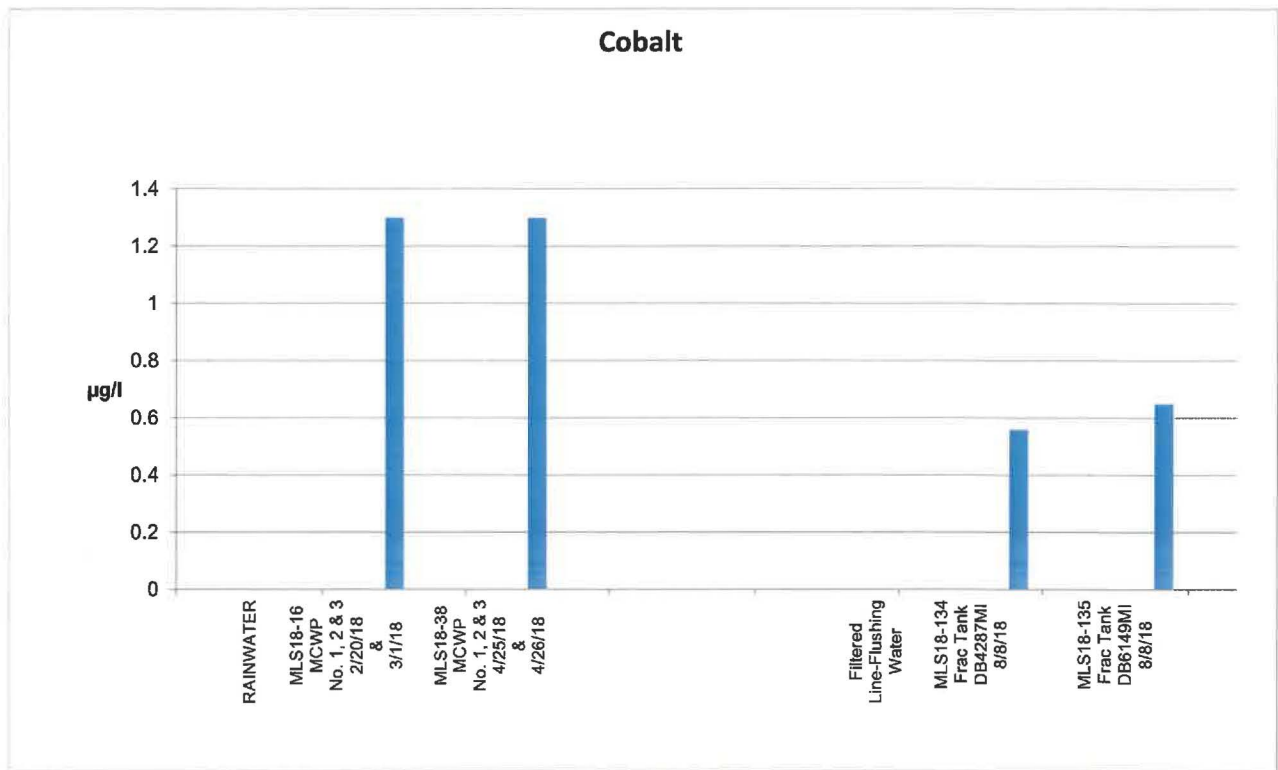
MOSS LANDING POWER PLANT
Analytical Results for Rainwater & Filtered Line-Flushing Water
Discharges from Metal Cleaning Waste Pond Nos. 1, 2 and 3 in 2018



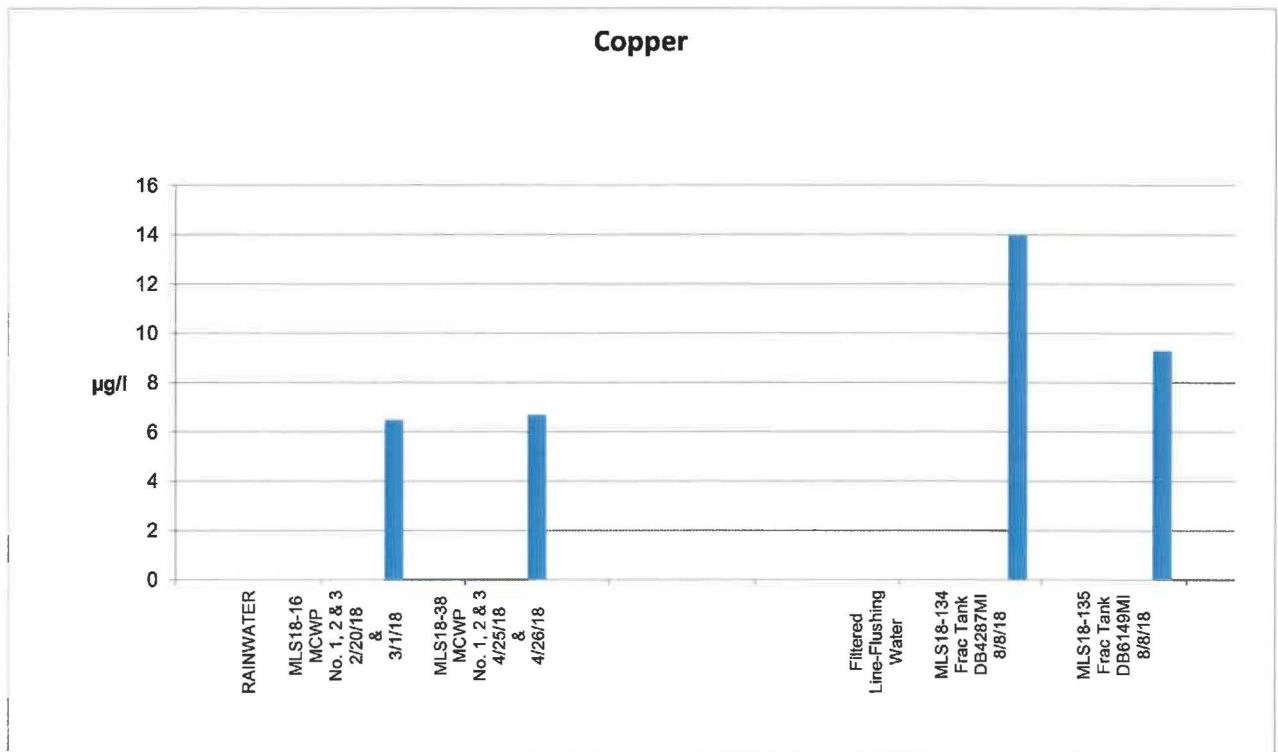
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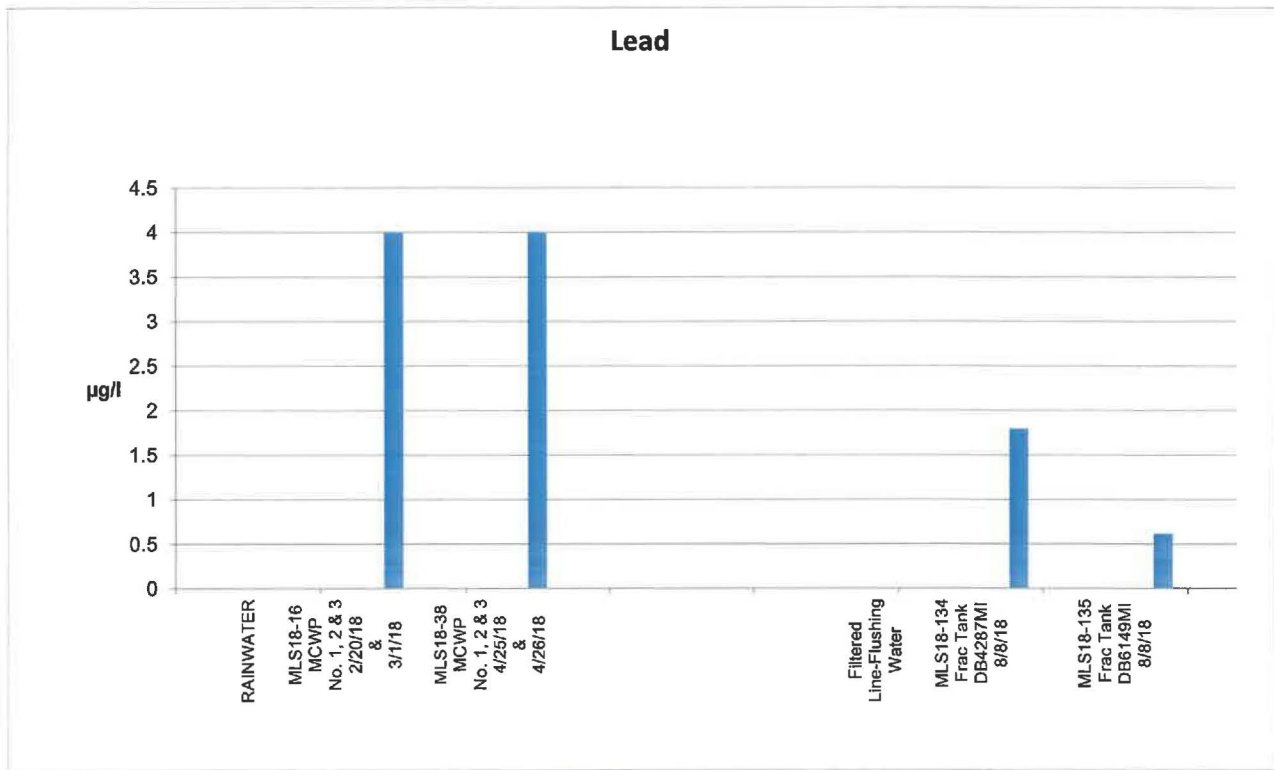
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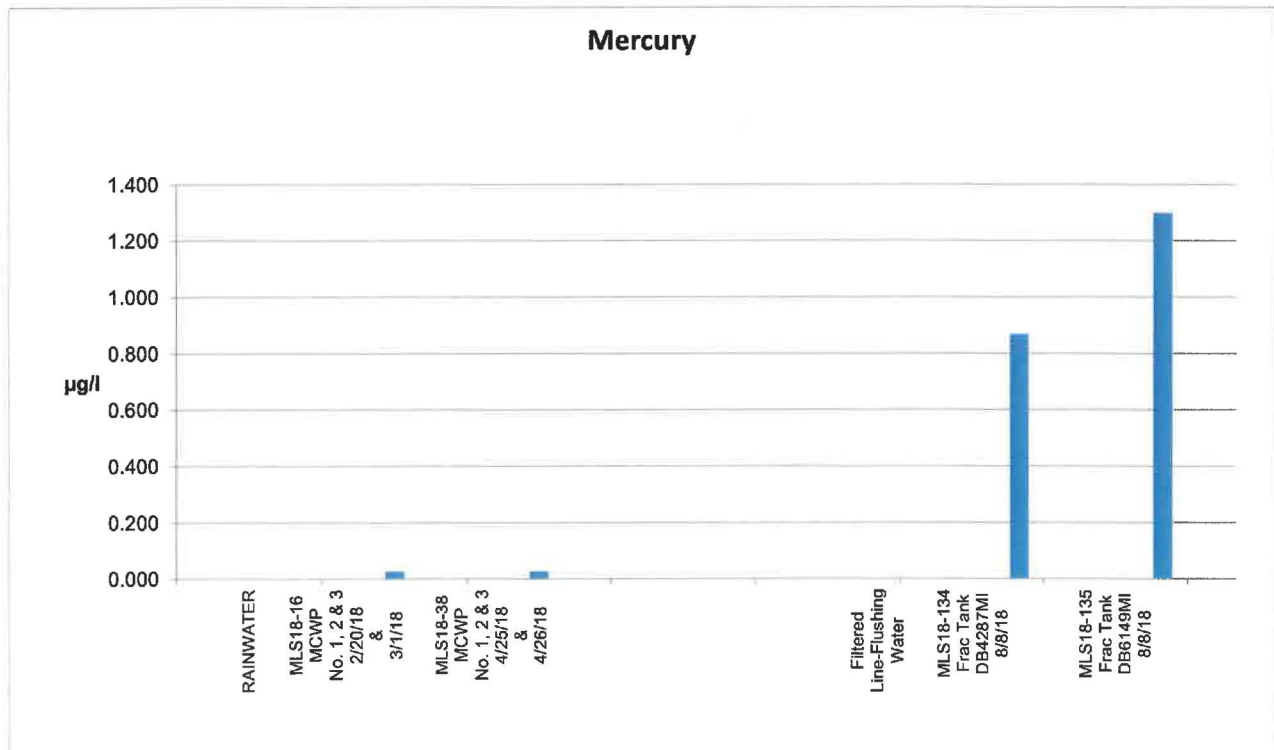
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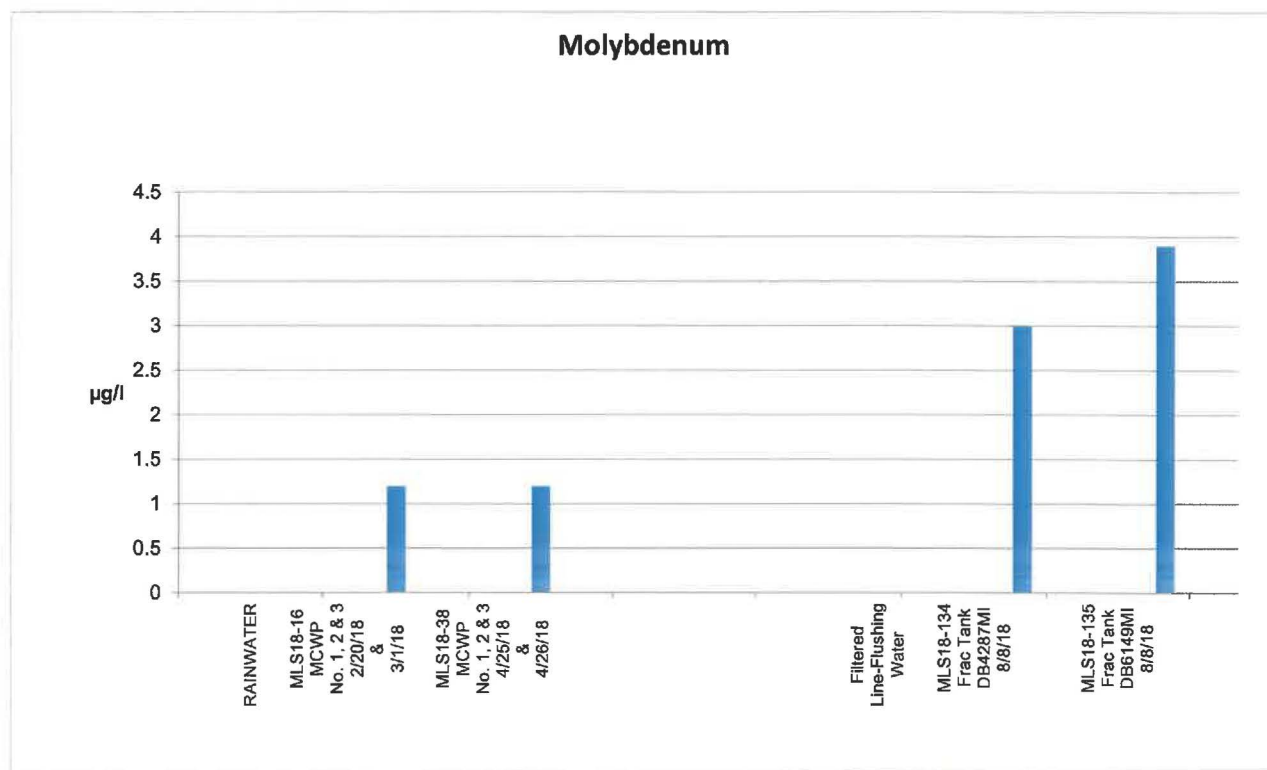
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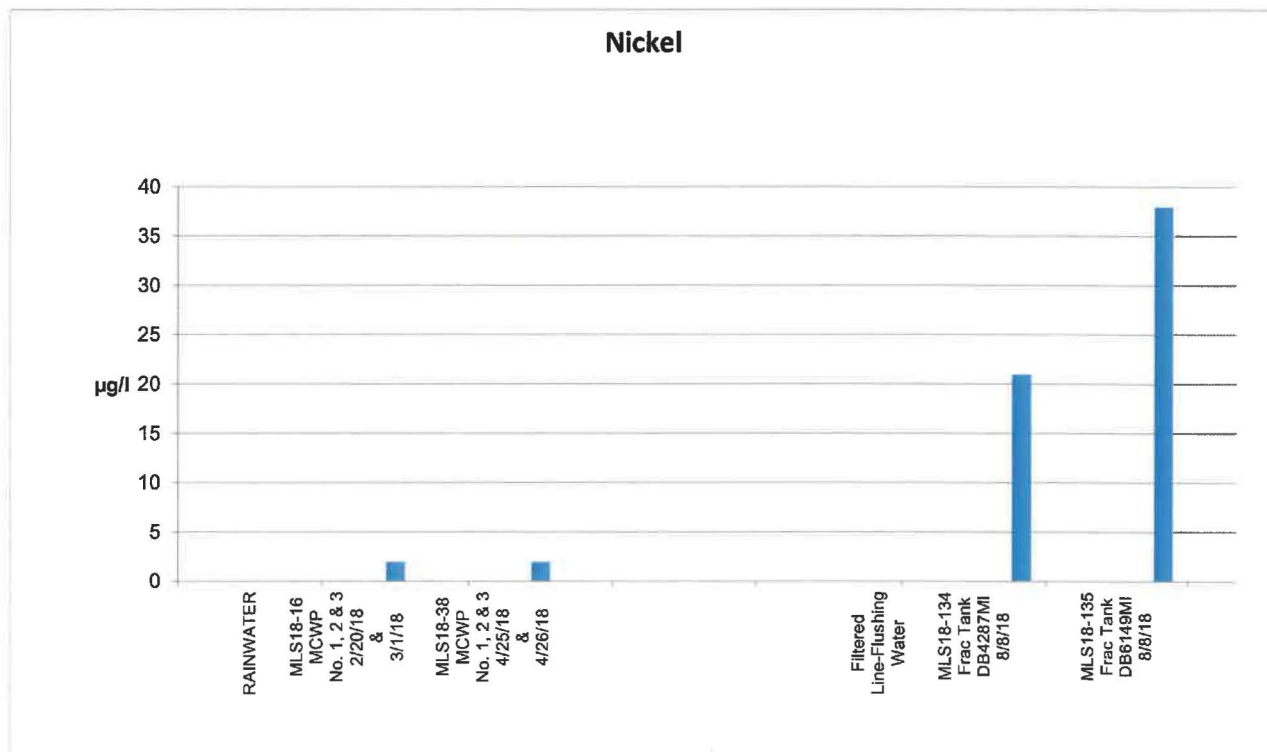
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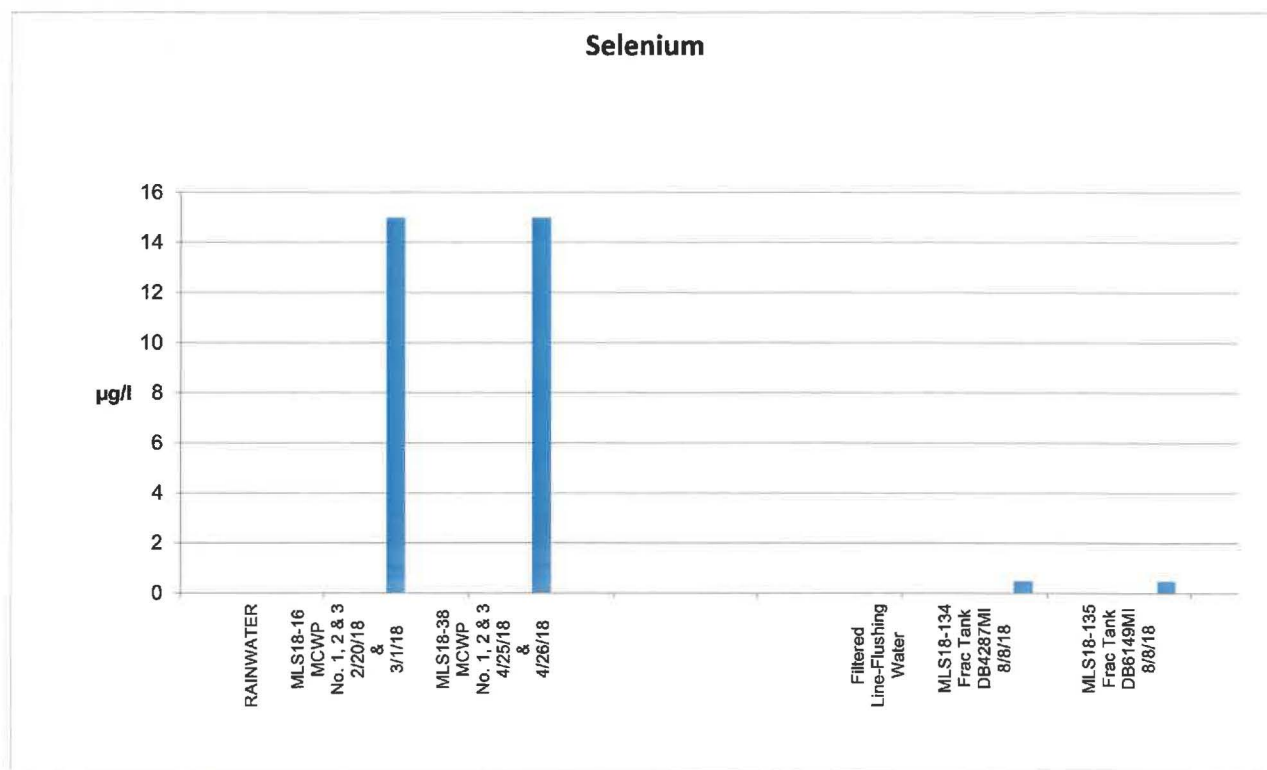
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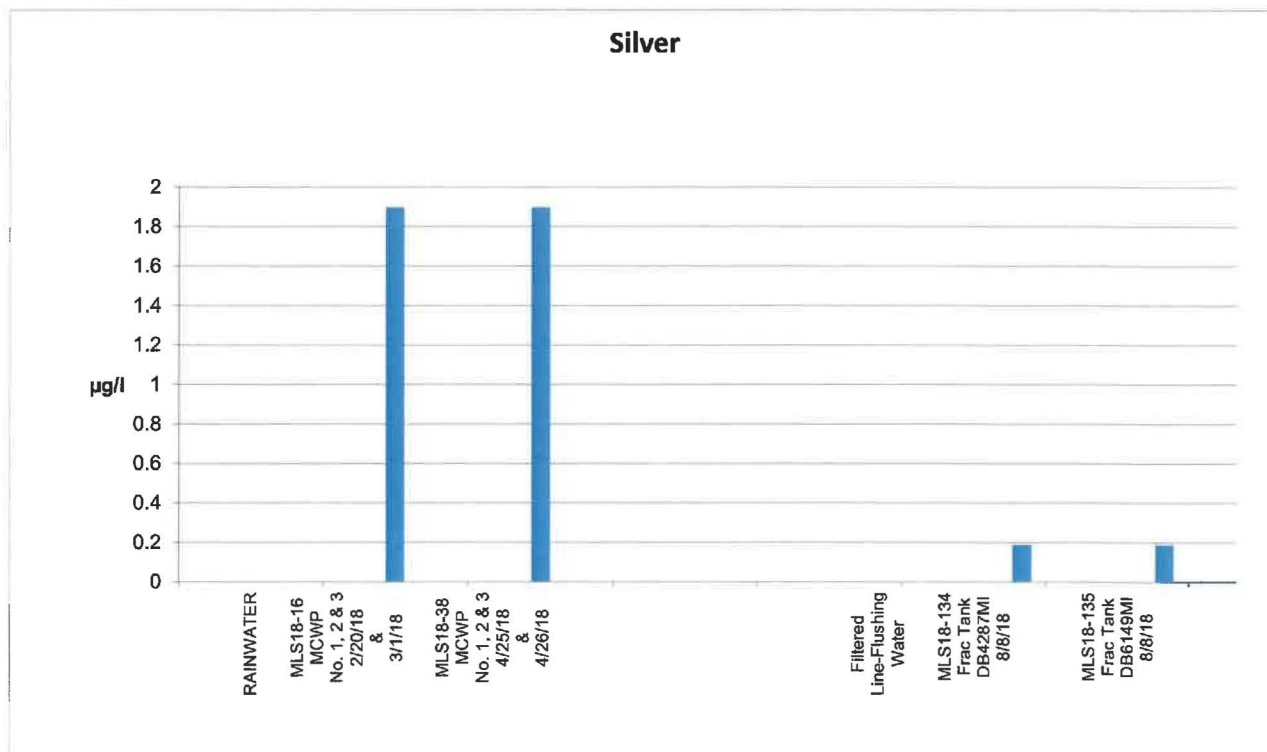
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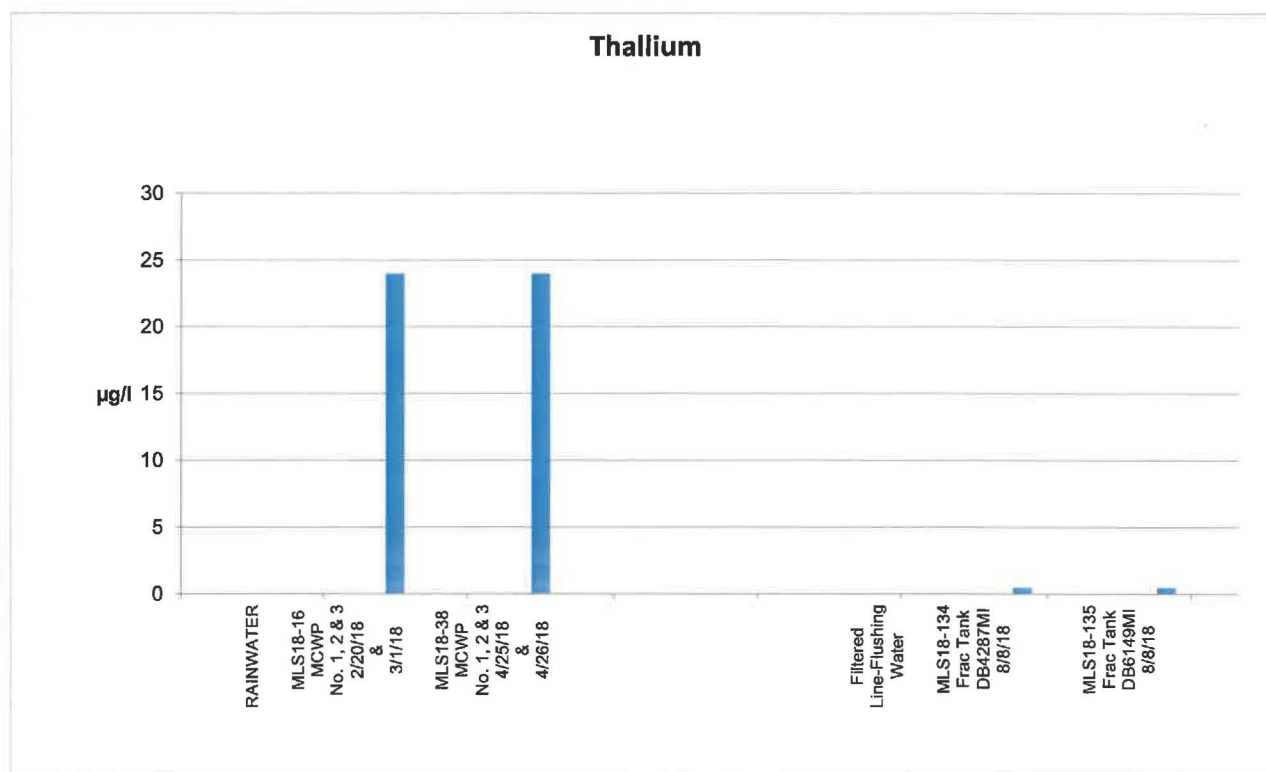
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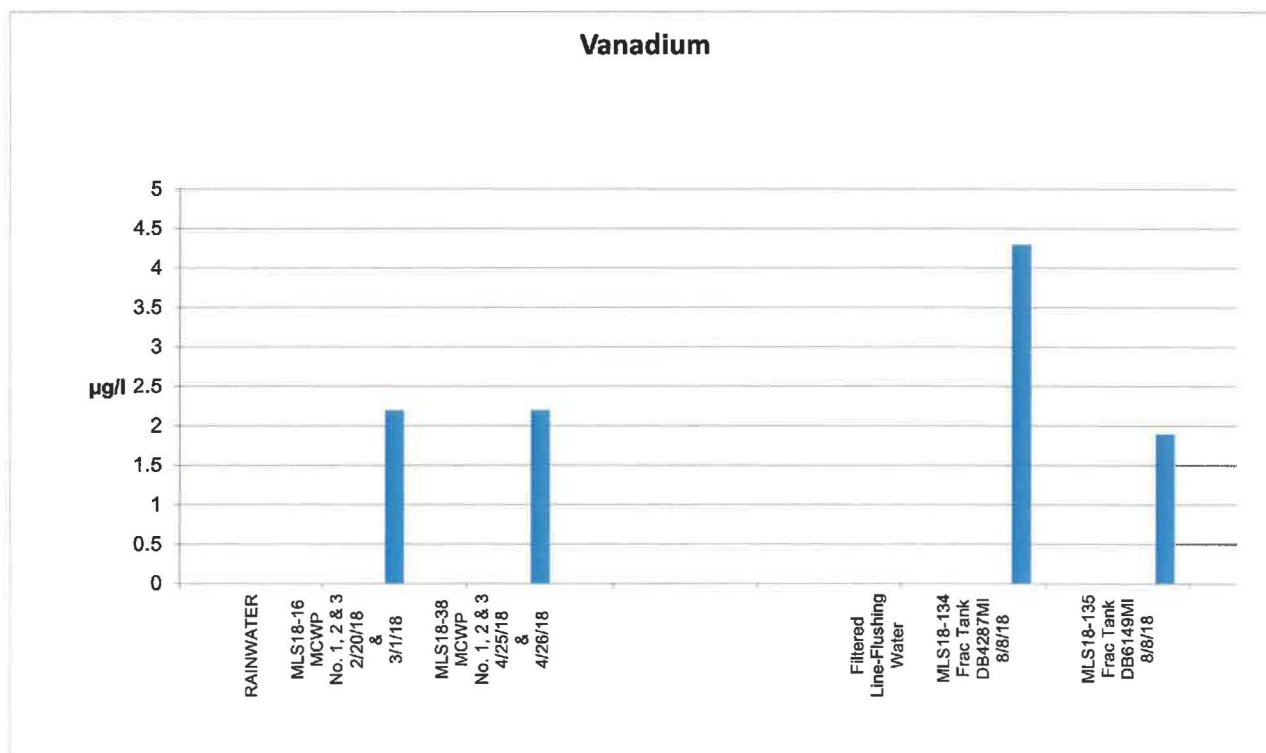
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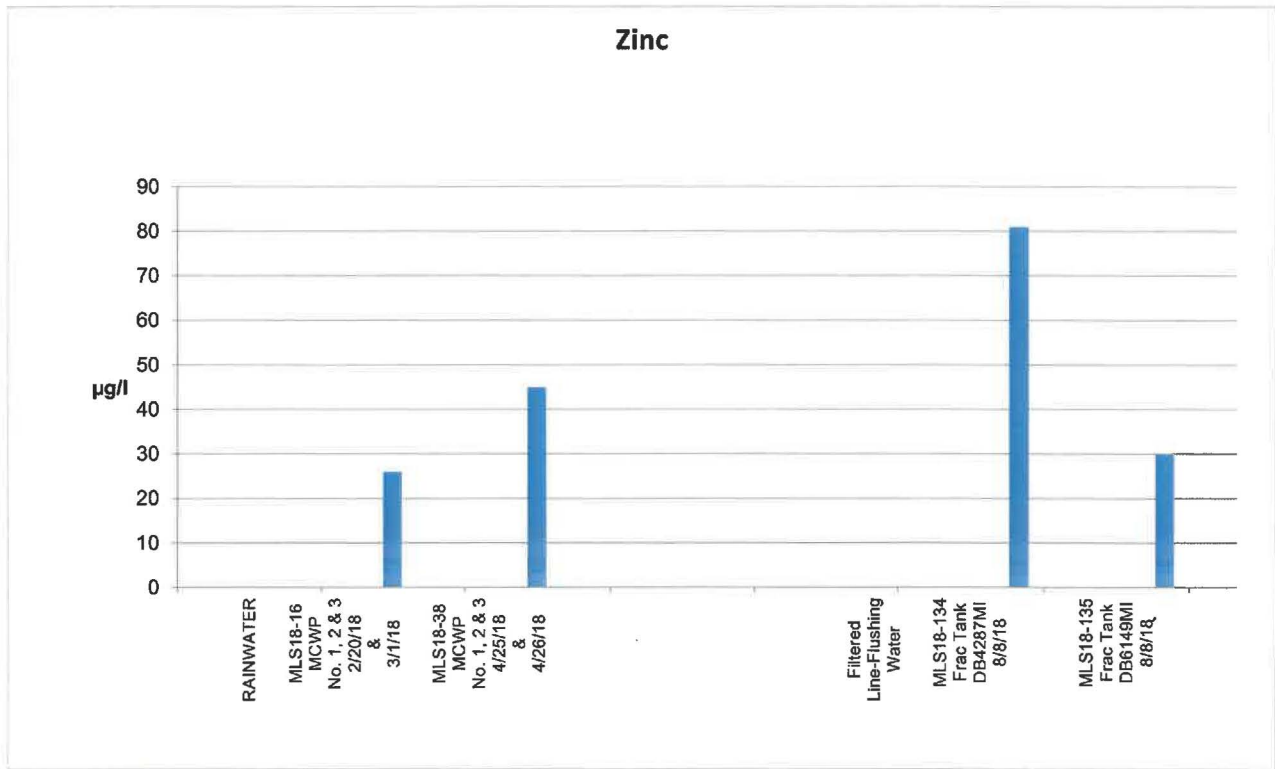
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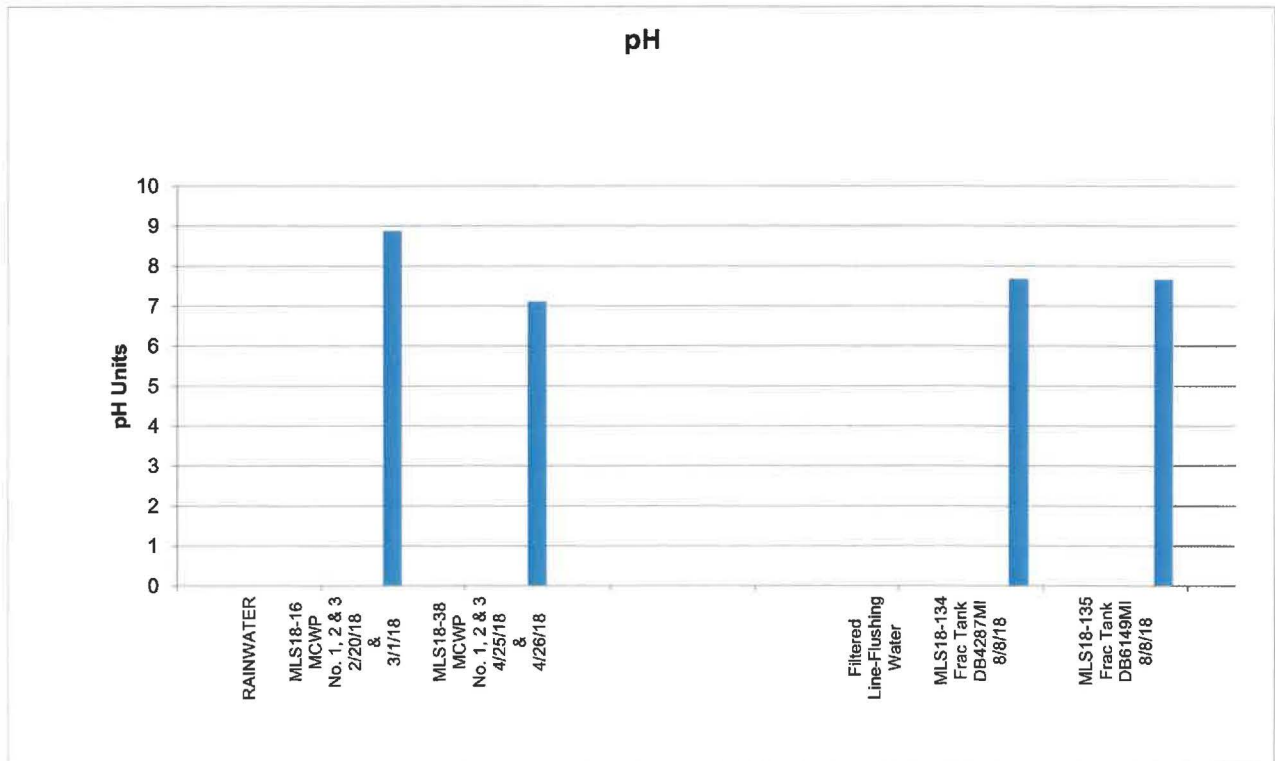
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