### **Monitoring Report Submittal Form**

Attn:			Ron Falkowski Region 5 Redding Office
Discharger: Name of Facility: Order Number: WDID: County:	McCloud Community Serving McCloud WWTF R5-2017-0078 5A470102002 Siskiyou	ces District	
I am herby submitting information:	to the Central Valley Regio	nal Water Quality	Control Board the following
Check all that apply	9		
	eport for the month of le one) Quarterly Monitoring		5)
1 <sup>st</sup> / 2 <sup>nd</sup> (circle one) S	Semi-annual Monitoring Rep	ort for the year of	
Annual Monitoring Re	port for the year		
Violation Notification	<u>n</u>		
During the monitoring	period there were / were no	ot (circle one) an	y violations of the WDRs.
The violations	were:		
Have the viola correct the vio	tions been corrected? Yes / lations?	No (circle one).	If no, what will be done to
Certification Stateme	<u>ent</u>		
information submitted those individuals imme information is true, ac-	of law that I have personal in this document and all atta ediately responsible for obta curate, and complete. I am nation, including the possibil	achments and the aining the informa aware that there	at, based on my inquiry of tion, I believe that the are significant penalties for
Signature:	Miller	Da	ate: 7-8-19
Print Name: Amos	McAbier	_ Position:	General Manager
Contact Phone #:	530-964-2017		

## McCloud CSD

#### WDID # 5A470102002

Monitoring and Reporting Program No. R5-2017-0078

#### **INFLUENT MONITORING**

#### Influent flow:

Amount	Month 1	Month 2	Month 3
Total Gallons	5,257,000	5,077,000	5,370,000
Average GPD	175,000	164,000	179,000

GPD denotes, Gallons Per Day

#### **EFFLUENT MONITORING (May 14, 2019)**

#### Quarterly Sampling point EFF-1:

Constituent	Units	Results
RP elevation, approx. MSL	0.01 Feet	3,192.37
Groundwater Elevation	0.01 Feet	>3,178.37
Depth to Groundwater	0.01 Feet	<14.00 (dry)
Dissolved Oxygen	mg/L	-
pН	Standard	=
EC	umhos/cm	
BOD	mg/L	-
TDS	mg/L	-
FDS	mg/L	l -
Total Kjeldahl Nitrogen	mg/L	-
Ammonia as N	mg/L	
Nitrate as N	mg/L	-
Nitrite as N	mg/L	<b>3</b> 0
Total Nitrogen	mg/L	(#I)

#### POND MONITORING (May 14, 2019)

#### Pond 1- Quarterly Laboratory monitoring:

Constituent	Units	Results	
Dissolved Oxygen*	mg/L	3.5	
pH	Standard	7.55	
EC	umhos/cm	158	
BOD	mg/L	30	
TDS	mg/L	178	
FDS	mg/L	95	
Total Kjeldahl Nitrogen	mg/L	9.46	
Ammonia as N	mg/L	2.25	
Nitrate as N	mg/L	<0.02	
Nitrite as N	mg/L	0.007J	
Total Nitrogen	mg/L	9.46	
Freeboard	0.1 feet	3.1	
Berm Condition	observations	Good	

<sup>\*</sup>Dissolved Oxygen monitoring applies to any pond containing more than two feet of standing wastewater.

J indicates detected, but below the reporting limit; therefore, result is an estimated concentration.

# **McCloud CSD**

#### WDID # 5A470102002

#### Monitoring and Reporting Program No. R5-2017-0078

#### **Pond 1- Monthly Observations**

	Pond conditions Pond 1										
Condition	Month 1	Month 2	Month 3								
Weeds in water or along berm	None	None	None								
Algae, vegetation, scum, or debris on pond surface	None	None	None								
Animal burrows in berms	None	None	None								
Seepage from berms or downslope of ponds	None	None	None								
Tears, abrasions, cracks, and holes in liners	None	None	None								

#### **QUARTERLY GROUNDWATER MONITORING (May 14, 2019)**

Constituent	Units	MW-1	MW-2	MW-3
RP elevation, approx. MSL	0.01 Feet	3,190.50	3,186.33	3,160.33
Groundwater Elevation	0.01 Feet	3,185.10	<3,171.65	3,153.08
Depth to Groundwater	0.01 Feet	5.40	Dry (>14.68)	7.25
Gradient	Feet/Feet	0.022	-	0.022
Gradient Direction	Degrees	188°27'31"	-	188°27'31"
рН	Standard	6.96	-	6.28
Total Dissolved Solids	mg/L	72	:=:	57
Nitrate as N	mg/L	0.28	:=:	<0.02
Nitrite as N	mg/L	<0.003		<0.003
Ammonia as N	mg/L	<0.020	-	<0.020
Total Kjeldahl Nitrogen	mg/L	0.19J	•	<0.09
Total Nitrogen	mg/L	0.469	_	<0.09
Sodium	mg/L	7.6	-	3.2
Chloride	mg/L	0.39J	75.6	0.60
Total Coliform Organisms	MPN/100 mL	<2	-	<2

J indicates detected, but below the reporting limit; therefore, result is an estimated concentration.

# McCloud CSD

#### WDID # 5A470102002

Monitoring and Reporting Program No. R5-2017-0078

#### SOLIDS/BIOSOLIDS DISPOSAL MONITORING

Annual Volume Generated (dry metric tons per year):0	
Annual Monitoring*: Comprehensive test results of older stockpile previously submitted	1/9/19

Parameter	Units	Results	
Arsenic	mg/Kg		
Lead	mg/Kg		
Nickel	mg/Kg		
Cadmium	mg/Kg		
Mercury	mg/Kg		
Selenium	mg/Kg		
Copper	mg/Kg		
Molybdenum	mg/Kg		
Zinc	mg/Kg		
Total Nitrogen	mg/Kg		
Total Solids	mg/Kg		

<sup>\*</sup>If annual volume generated exceeds 290 dry metric tons per year, see Monitoring and Reporting Program R5-2017-0078 for schedule of monitoring frequency based on volume generated.



# Groundwater Monitoring Field-Data Sheet McCloud CSD Wastewater Ponds

Date: 5-14-2019

Sampled By: Dan Tener

POINT	DTW	рН	EC	Temp.	Turbidity	DO		Time
	feet	рН	μmhos/c	deg. C	NTU	mg/L		
MW-1	5.40							08 45
		7.24	65	9.4°°	68.3			0850
		7.12	60	9,100	21.3	9		0855
		7.05	59	8.8°	35.7			0900
		6.96	60	8.904	28.0			0905
		6.96	59	9,0	27.01			0910
MW-2	Dry	>14.68						1105
MW-3	7.25	57.10		00				1110
		7.12	560	9.6		6.90		1115
-	-	6.90	56	10.7		4.24		1120
	-	6.51	55	10.7		4.05		1125
		6.30	55 56	10.700		5.18		
EFF-1		6.28	56	70.7		1,21		1135
	Dry	714.00						0935
								,
Pond 1	Burn Cond Good	7.55	158	20.0	18.2	3.5 "gL	3-1"	1040



# FIELD METER CALIBRATION RECORDS

METER #: #6 METER #: #3 METER #: £XTech

	ients																	
	Соттептя																	
6102-71-5	Problems? If yes, comment on Extended	✓ YES NO	YES NO	YES NO	YES NO		YES X NO		YES NO		YES NO		YES NO		YES 💢 NO	YES NO	YES NO	YES NO
Date: 5-1	PH 4 Standard pH 10 Standard pH 10 Standard pH 10 Standard Expiration Date Reading Before Reading After Expiration Date Reset & Lot Number																	
Jensen	pH 10 Standard Reading After Reset																	
Dan Je	pH 4 Standard pH 10 Standard Expiration Date Reading Before & Lot Number Reset																	
Name:		\$2.52.18				\												
	pH 4 Standard  e Reading After  Reset	4.05				dard		eset							*			
	PH 4 Standard Reading Before	4.03				EC 447 Standard		EC Before Reset		10.0	10.0		4.93		Sensor			
4 CSD	PH 7 Standard PH 7 Standard PH 7 Standard Reading Before Reading After Expiration Date Reading Before Reset Reset	3202-60-10					01-07-208			1.00	1.03	Turbidity Before Reset	1.05		2.0. Poole			
McCloud CSD	pH 7 Standard Reading After Reset	7.03				ndard		set		0.00	0.01	Turbidity	0.01	uc.				
SITE NAME:	pH 7 Standard Reading Before Reset	7.11				EC 1413 Standard	1413	EC Before Reset	1414	Turbidity				DO Calibration	Repland			
ris	Initials	Ri					É				10	<b>S</b>			Ba			





2218 Railroad Avenue Redding, California 96001 fax 530.243.7494

voice 530,243,7234

JUN 2 1 2019

3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966 fax 530.894.5143

June 21, 2019

Lab ID: 19E0846

**BRYAN GARTNER LAWRENCE & ASSOCIATES** 3590 IRON COURT SHASTA LAKE, CA 96019

RE: McCLOUD CSD PONDS GROUNDWATER MONITORING 015100.00

Dear BRYAN GARTNER,

Enclosed are the analysis results for Work Order number 19E0846. All analyses were performed under strict adherence to our established Quality Assurance Plan. Any abnormalities are listed in the qualifier section of this report.

If you have any questions regarding these results, please feel free to contact us at any time. We appreciate the opportunity to service your environmental testing needs.

Sincerely,

Ricky D. Jensen Laboratory Director

California ELAP Certification Number 1677





2218 Railroad Avenue Redding, California 96001 fax 530.243.7494

voice 530.243.7234

JUN 2 1 2019

SIG. 3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966 fax 530.894.5143

Report To: LAWRENCE & ASSOCIATES

3590 IRON COURT

SHASTA LAKE, CA 96019

Lab No: Reported:

19E0846 06/21/19

Phone: (530) 275-4800

P.O. #

Attention:

**BRYAN GARTNER** 

Project: McCLOUD CSD PONDS GROUNDWATER MONITORING 015100.00

#### **General Chemistry**

Nitrate as N	Analyt	Analyte		Units	s Results	Qualifie	r Analyst	MDL	RL	Method	Analyzed	l Prepared	Batch
Nitrate as N	MW-1	Water	(19E0846-	01)	Sampled:05/14	/19 09:10	Received:05/14/	19 14:5	O Temp (C	): 15.9			
Nitrate as N	Chloride			mg/l	0.39	J	AMV	0.16	0.50	EPA 300.0	05/20/19	05/20/19	B9E1311
Nitride as N	Nitrate a	s N		34	0.28		RRG	0.02	0.05	EPA 353.2	05/15/19	05/15/19	B9E1194
Nitrogen, Total	Nitrite as i	N		311	ND		RRG	0.003	0.010	H	11	H	
Nitrogen, Total (	Total Dis	solved So	lids	**	72		JC	3	6	SM 2540C	05/16/19	05/16/19	B9E1251
Total Kjeldahi Nitrogen    O.19	Nitrogen	, Total		**	0.469		JC	0.0900	0.200	(CALC)	05/22/19	05/21/19	[CALC]
Ammonla as N " ND JC 0.020 0.050 EPA 350.1 05/20/19 05/20/19 89E13 Nitrate+Nitrite as N " 0.28 Received:05/14/19 14:50 Temp (C): 13.2  Chloride mg/ 0.60 AMV 0.16 0.50 EPA 353.2 05/15/19 05/20/19 89E13  NItrate as N " ND RRG 0.02 0.05 EPA 353.2 05/15/19 05/20/19 89E13  Nitrate as N " ND RRG 0.003 0.010 " " " " " 89E13  Nitrate as N " ND RRG 0.003 0.010 " " " " " 89E13  Nitrate as N " ND RRG 0.003 0.010 " " " " " 89E13  Nitrate as N ND JC 0.0900 0.200 (CALC) 05/22/19 05/21/19 [CALC)  Nitrogen, Total ND JC 0.0900 0.200 (CALC) 05/22/19 05/21/19 [CALC)  Northal Nitrogen " ND JC 0.0900 0.200 EPA 350.1 05/20/19 05/20/19 89E13  NITRATE ND JC 0.0020 0.050 EPA 350.1 05/20/19 05/20/19 89E13  NITRATE ND ND RRG 0.02 0.05 EPA 350.1 05/20/19 05/20/19 89E13  NITRATE ND RRG 0.02 0.05 EPA 350.2 05/15/19 05/15/19 89E11  NITRATE SN MG/N ND RRG 0.02 0.05 EPA 350.2 05/15/19 05/15/19 89E11  NITRATE SN MG/N ND RRG 0.02 0.05 EPA 350.2 05/15/19 05/15/19 89E11  NITRATE SN MG/N ND RRG 0.02 0.05 EPA 350.2 05/15/19 05/15/19 89E11  NITRATE ND RRG 0.003 0.010 " " " " " " " " " " " " " " " " " "	Total Kje	ldahl Nitr	ogen	**	0.19	3.	JC	0.09	0.20		u	"	B9E1334
Nitrate+Nitrite as N	Ammonia -	as N		**	ND		JC	0.020	0.050	EPA 350.1	05/20/19	05/20/19	B9E1305
MW-3   Water   (19E0846-02)   Sampled:05/14/19   11:35   Received:05/14/19   14:50   Temp (C): 13.2	Nitrate+I	Nitrite as	N	100	0.28		RRG	0.02	0.05	EPA 353.2			B9E1194
Nitrate as N	MW-3	Water	(19E0846-0	02)	Sampled:05/14,	19 11:35	Received:05/14/	19 14:5	Temp (C)	: 13.2			
Nitrate as N	Chloride			mg/l	0.60		AMV	0.16	0.50	EPA 300.0	05/20/19	05/20/19	B9E1311
Nitrote as N	Vitrate as	N		11	ND		RRG	0.02	0.05	EPA 353.2			B9E1194
ND   JC   0.090   0.200   (CALC)   0.5/22/19   0.5/21/19   0.5/2	Nitrite as N	V		(6)	ND		RRG	0.003	0.010	11	" "	It	0
ND   JC   0.0900   0.200   (CALC)   05/22/19   05/21/19   [CALC   COTAL KJeldahl Nitrogen   ND   JC   0.090   0.200   EPA 351.2   "	Total Diss	solved So	lids	н	57		JC	3	6	SM 2540C	05/16/19	05/16/19	B9E1251
ND   JC   0.09   0.20   EPA 351.2   "   "   B9E13   Mmonola as N   "   ND   JC   0.020   0.050   EPA 350.1   05/20/19   05/20/19   B9E13   Mltrate+Nltrite as N   ND   RRG   0.02   0.05   EPA 353.2   05/15/19   05/15/19   B9E11   Mltrate as N   ND   RRG   0.02   0.05   EPA 353.2   05/15/19   05/15/19   B9E11   Mltrate as N   Mg/l   ND   RRG   0.02   0.05   EPA 353.2   05/15/19   05/15/19   B9E11   Mltrate as N   ND   RRG   0.003   0.010   "   "   "   "   "   "   "   "   "	Vitrogen, 7	Total		**	ND		JC	0.0900	0.200	(CALC)	05/22/19		[CALC]
No	Fotal Kjeld	ahl Nitroge	n	**	ND		JC	0.09	0.20	EPA 351.2	н		B9E1334
ND   RRG   0.02   0.05   EPA 353.2   05/15/19   05/15/19   B9E11	Ammonia a	as N		(M)	ND		JC	0.020	0.050	EPA 350.1	05/20/19	05/20/19	B9E1305
Nitrate as N mg/l ND RRG 0.02 0.05 EPA 353.2 05/15/19 05/15/19 B9E11 Nitrite as N " 0.007 J RRG 0.003 0.010 " " " " " " " " " " " " " " " " " "	Nitrate+Ni	trite as N			ND		RRG	0.02	0.05	EPA 353.2	05/15/19	05/15/19	B9E1194
Nitrite as N	POND-1	Water	(19E0846	i-03)	Sampled:05/1	4/19 10:40	Received:05/14	4/19 14:	50 Temp (	C): 15.7		0.01	
litrite as N         0.007         J         RRG         0.003         0.010         """"""""""""""""""""""""""""""""""""	litrate as I	N		mg/l	ND		RRG	0.02	0.05	EPA 353.2	05/15/19	05/15/19	B9E1194
30   3C   3   3   3   3   3   3   3   3	litrite as	N			0.007	J	RRG	0.003	0.010	n	11	н	н
Fixed Dissolved Solids         95         I-04         JC         3         6         SM 2540E         05/30/19         05/30/19         B9E12           litrogen, Total         9.46         JC         0.900         2.00         (CALC)         05/22/19         05/21/19         [CALC           Total Kjeldahl Nitrogen         9.46         JC         0.90         2.00         EPA 351.2         "         B9E13           Immonia as N         2.25         JC         0.100         0.250         EPA 350.1         05/20/19         05/20/19         B9E13	otal Diss	olved Sol	ids	200	178		JC	3	6	SM 2540C	05/16/19	05/16/19	B9E1252
#REED DISSOVED SOIRGS 95 1-04 JC 3 6 SM 2540E 05/30/19 05/30/19 B9E12  ##REED DISSOVED SOIRGS 95 1-04 JC 3 6 SM 2540E 05/30/19 05/30/19 B9E12  ##REED DISSOVED SOIRGS 95 1-04 JC 0.900 2.00 (CALC) 05/22/19 05/21/19 [CALC of CALC of	30D - 5 D	ay		**	30		JC	3	3	SM 5210B	05/20/19	05/15/19	B9E1198
litrogen, Total         9.46         JC         0.900         2.00         (CALC)         05/22/19         05/21/19         [CALC otal Kjeldahl Nitrogen           otal Kjeldahl Nitrogen         9.46         JC         0.90         2.00         EPA 351.2         "         B9E13.3           Immonia as N         2.25         JC         0.100         0.250         EPA 350.1         05/20/19         05/20/19         B9E13.3	ixed Dis	solved Sol	ids		95	I-04	JC	3	6	SM 2540E	05/30/19		B9E1253
Otal Kjeldahl Nitrogen         9.46         JC         0.90         2.00         EPA 351.2         "         "         B9E13.3           Immonia as N         2.25         JC         0.100         0.250         EPA 350.1         05/20/19         05/20/19         B9E13.3	Nitrogen, Total			n	9.46		JC	0.900	2.00	(CALC)	05/22/19	, ,	[CALC]
mmonia as N 2.25 JC 0.100 0.250 EPA 350.1 05/20/19 05/20/19 B9E13	otal Kjel	dahl Nitro	gen		9.46		JC	0.90	2.00	EPA 351.2	u u	п'	B9E1334
	\mmonia	as N			2.25		JC	0.100	0.250	EPA 350.1	05/20/19	05/20/19	B9E1305
100 0.00 0.00 0.01 0.01 0.01 0.01 0.01	Nitrate+Nit	rite as N		**	ND		RRG	0.02	0.05	EPA 353.2	05/15/19	05/15/19	B9E1194

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2218 Railroad Avenue

voice 530.243.7234 Redding, California 96001 fax 530.243.7494

3860 Morrow Lane, Suite F Chico, California 95928

SIG.

voice 530.894.8966 fax 530.894.5143

Report To:

**LAWRENCE & ASSOCIATES** 

3590 IRON COURT

SHASTA LAKE, CA 96019

**Lab No:** 19E0846 Reported:

06/21/19 Phone: (530) 275-4800

P.O. #

Attention:

**BRYAN GARTNER** 

Project: McCLOUD CSD PONDS GROUNDWATER MONITORING 015100.00

**Microbiology** 

Analy	te	Units	s Results	Qualifie	r Analyst	MDL	RL	Method	Analyzed	Prepared	Batch
MW-1	Water	(19E0846-01)	Sampled:05/14	1/19 09:10	Received:05/14/	19 14:50	Temp (C	): 15.9			
Total Co	liforms	MPN/100	ml <2		TMN		2	SM 9221B	05/16/19	05/14/19	B9E1255
MW-3	Water	(19E0846-02)	Sampled:05/14	1/19 11:35	Received:05/14/	19 14:50	Temp (C	): 13.2			
Total Co	llforms	MPN/100	ml <2		TMN		2	SM 9221B	05/16/19	05/14/19	B9E1255

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2218 Railroad Avenue Redding, California 96001

voice 530.243.7234 fax 530.243.7494

SIG. 3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966 fax 530.894.5143

Report To:

**LAWRENCE & ASSOCIATES** 

3590 IRON COURT

SHASTA LAKE, CA 96019

Lab No:

**Reported:** 06/21/19 👱 Phone:

(530) 275-4800

19E0846

P.O. #

Attention:

**BRYAN GARTNER** 

Project: McCLOUD CSD PONDS GROUNDWATER MONITORING 015100.00

**Metals - Total** 

Analyte	•	Unit	s Results	Qualifie	r Analyst	MDL	RL	Method	Analyzed	Prepared	Batch
MW-1	Water	(19E0846-01)	Sampled:05/14	4/19 09:10	Received:05/14/	19 14:50	Temp (C	): 15.9			
Sodium		mg/l	7.6	R-08	CH	1.0	5.0	EPA 200.7	05/22/19	05/16/19	B9E1213
MW-3	Water	(19E0846-02)	Sampled:05/14	4/19 11:35	Received:05/14/	19 14:50	Temp (C	): 13.2			
Sodium		mg/l	3.2		СН	0.2	1.0	EPA 200.7	05/22/19	05/16/19	B9E1213

Basic Laboratory Inc California ELAP Cert #1677 and #2718

Page 4 of 8





2218 Railroad Avenue voice 530.243.7234 Redding, California 96001 fax 530.243.7494

JUN 2 1 2019

SIG. 3860 Morrow Lane, Suite F

voice 530.894.8966 fax 530.894.5143

Chico, California 95928

**Lab No:** 19E0846

Reported: 06/21/19

Phone: (530) 275-4800

P.O. #

Report To: LAWRENCE & ASSOCIATES

3590 IRON COURT SHASTA LAKE, CA 96019

Attention: **BRYAN GARTNER** 

Project: McCLOUD CSD PONDS GROUNDWATER MONITORING 015100.00

#### **Quality Control Data**

Analyte		Result	RL	Units	Spike Level	Source	0/ 050	%REC	DDD	RPD	Ouelië -
miniyes		Result				Result	%REC	Limits	RPD	Limit	Qualifie
			Ge	neral Che	mistry						
Batch B9E1194 - Ge	neral Prep - GC										
Blank											
Nitrate as N		ND	0.05	mg/l							
Nitrite as N		ND	0.010	mg/l							
Nitrate+Nitrite as N		ND	0.05	mg/l							
LCS											
Nitrate as N		1.48	0.05	mg/l	1.50		98.9	90-110			
Nitrite as N		0.525	0.010	mg/l	0.500		105	90-110			
Nitrate+Nitrite as N		2.01	0.05	mg/l	2.00		100	90-110			
Duplicate	Source: 19E0846-01										
Nitrate as N		0.28	0.05	mg/l		0.28			0.831	20	
Nitrite as N		ND	0.010	mg/l		ND				20	
Nitrate+Nitrite as N		0.28	0.05	mg/l		0.28			0.831	20	
	Source: 19E0846-01										
Nitrate as N		1.84	0.05	mg/l	1.50	0.28	104	90-110			
Nitrite as N Nitrate+Nitrite as N		0.534	0.010	mg/l	0.500	ND	107	90-110			
		2.38	0.05	mg/l	2.00	0.28	105	90-110			
Batch B9E1198 - Ger	nerai Prep - GC										
Blank		ND									
BOD - 5 Day		ND	3	mg/l							
LCS											
BOD - 5 Day		205	3	mg/l	198		104	84.8-115.2			
Batch B9E1251 - Ger	neral Prep - GC										
Blank											
Total Dissolved Solids		ND	6	mg/l							
.cs											
Fotal Dissolved Solids		201	6	mg/l	200		100	80-120			
Ouplicate :	Source: 19E0924-02								-		
Total Dissolved Solids		4060	6	mg/l		4080			0.491	5	
Batch B9E1252 - Gen	ieral Prep - GC			-							
Blank											
Total Dissolved Solids		ND	6	mg/l							
.cs				5,					-		
otal Dissolved Sollds		202	6	mg/l	200		101	80-120			
	Source: 19E0846-03		<del>-</del>	mg/	200		101	30 120			_
otal Dissolved Solids	Jource, 1520040 US	173	6	mg/l		178			2.85	5	
atch B9E1253 - Gen	eral Pren - GC	1.4		mg/1		1/0			2.03		
lank										-	
ixed Dissolved Solids		ND	6	mg/l							
Gloodiyed Jones		110	J	mg/I							

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#### AMENDED

JUN 2 1 2019

www.basiclab.com

2218 Railroad Avenue Redding, California 96001 fax 530.243.7494

voice 530.243.7234

3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966 fax 530.894.5143

**Lab No:** 19E0846 Reported:

06/21/19 (530) 275-4800

P.O. #

Phone:

Attention:

**BRYAN GARTNER** 

3590 IRON COURT

Report To: LAWRENCE & ASSOCIATES

McCLOUD CSD PONDS GROUNDWATER MONITORING 015100.00 Project:

SHASTA LAKE, CA 96019

**Quality Control Data** 

Analyte		Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
			Ge	neral Che	mistry						
Batch B9E1253 - (	General Prep - GC										
LCS		- //									
Fixed Dissolved Sollo	ds	181	6	mg/l	200		90.5	80-120			
Duplicate	Source: 19E0846-03										
Fixed Dissolved Sollo	ds	95	6	mg/l		95			0.00	5	
Batch B9E1305 - (	General Prep - GC										
Blank											
Ammonia as N		ND	0.050	mg/l							
LCS											
Ammonia as N		0.494	0.050	mg/l	0.500		98.8	90-110			
Duplicate	Source: 19E0846-01					4.					
Ammonia as N		ND	0.050	mg/t		ND				20	
Duplicate	Source: 19E0959-03									20	
Ammonia as N		ND	0.050	mg/l		ND				20	
Matrix Spike	Source: 19E0846-01							00.110			
Ammonia as N		0.487	0.050	mg/l	0.500	ND	97.4	90-110			
Matrix Spike	Source: 19E0959-03				0.500	MD	00.1	90-110			
Ammonia as N	2/12/2	0.490	0.050	mg/l	0.500	ND	98.1	90-110			
Batch B9E1311 - (	General Prep - GC										
Blank											
Chloride		ND	0.50	mg/l							
LCS								20.110			
Chloride		4.98	0.50	mg/l	5.00		99.6	90-110		_	
Duplicate	Source: 19E0548-02								0.160	20	
Chloride		13.6	0.50	mg/l		13.5			0.160	20	
Duplicate	Source: 19E0653-04					24.2			0,0316	20	
Chloride		34.2	0.50	mg/l		34.2			0.0210	20	
Matrix Spike	Source: 19E0548-02				F 00	12.5	101	80-120			
Chloride		18.6	0.50	mg/I	5.00	13.5	101	80-120			
Matrix Spike	Source: 19E0653-04				- F 00	34.2	97.7	80-120			
Chloride		39.1	0.50	mg/l	5.00	34.2	97.7	00-120			
Batch B9E1334 - 0	General Prep - GC										
Blank											
Total Kjeldahl Nitrog	en	ND	0.20	mg/l							
LCS							104	00 110		7/1	
Total Kjeldahl Nitrog	en	1.01	0.20	mg/l	1.00		101	90-110			
Duplicate	Source: 19E0846-01					0.45			4.00	20	
Total Kjeldahl Nitrog	en	0.18	0.20	mg/l		0.19			4,00	20	

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voice 530.243.7234 Redding, California 96001 fax 530.243.7494

JUN 2 1 2019

SIG. 3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966 fax 530.894.5143

**LAWRENCE & ASSOCIATES** Report To:

3590 IRON COURT

SHASTA LAKE, CA 96019

**Attention: BRYAN GARTNER** 

Project:

McCLOUD CSD PONDS GROUNDWATER MONITORING 015100.00

Lab No: 19E0846 Reported:

06/21/19 Phone: (530) 275-4800

P.O. #

**Quality Control Data** 

					Spike	Source		%REC		RPD	
Analyte		Result	RL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
			Ge	neral Che	mistry						
Batch B9E1334 -	- General Prep - GC										
Duplicate	Source: 19E1009-01										
Total Kjeldahi Nitro	ogen	ND	0.20	mg/I		ND				20	
Matrix Spike	Source: 19E0846-01										
Total Kjeldahl Nitrogen		1.25	0.20	mg/l	1.00	0.19	106	75-125			-
Matrix Spike	Source: 19E1009-01										
Total Kjeldahi Nitro	ogen	0.98	0.20	mg/l	1.00	ND	98.4	75-125			
				Metals - T	otal						
Batch B9E1213 -	EPA 200 Series										
Blank											
Sodlum		ND	1.0	mg/l							
LCS						-				-	
Sodium	V .III	50.8	1.0	mg/l	50.0		102	85-115			
Duplicate	Source: 19E0800-01							-			
Sodium		2.3	1.0	mg/l		2.3			1.30	20	
Matrix Spike	Source: 19E0800-01				-						
Sodlum		53.3	1.0	mg/i	50.0	2.3	102	75-125			

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Report To:

**LAWRENCE & ASSOCIATES** 3590 IRON COURT

SHASTA LAKE, CA 96019

**BRYAN GARTNER** 

Attention:

Lab No: 19E0846

SIG.

Reported: 06/21/19 Phone: (530) 275-4800

P.O. #

Project: McCLOUD CSD PONDS GROUNDWATER MONITORING 015100.00

#### **Notes and Definitions**

R-08 The sample was diluted due to sample matrix resulting in elevated reporting limits.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). The J flag is equivalent to the DNQ Estimated Concentration flag.

I-04 Sample was re-analyzed past the EPA recommended hold time.

A-01 <2

Analyte DETECTED DET

ND Analyte NOT DETECTED at or above the detection limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference < Less than reporting limit

Less than or equal to reporting limit <

Greater than reporting limit

Greater than or equal to reporting limit ≥

MDL Method Detection Limit RL/ML Minimum Level of Quantitation

MCL/AL Maxium Contaminant Level/Action Level

mg/kg Results reported as wet weight TTLC Total Threshold Limit Concentration

STLC Soluble Threshold Limit Concentration TCLP Toxicity Characteristic Leachate Procedure

Received Temperature - according to EPA guidelines, samples for most chemistry methods should be held at ≤6 degrees C after collection, including during Note 1

transportation, unless the time from sampling to delivery is <2 hours. Regulating agencies may invalidate results if temperature requirements are not met.

Note 2 According to 40 CFR Part 136 Table II, the following tests should be analyzed in the field within 15 minutes of sampling: pH, chlorine, dissolved oxygen, and sulfite.

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