



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 19, 2019

Regina Mullen
EA Engineering
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Big Sky OrderNo.: 1903148

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/5/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/19/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: LRG-4116

 Project:
 Big Sky
 Collection Date: 3/4/2019 12:01:00 PM

 Lab ID:
 1903148-001
 Matrix: AQUEOUS
 Received Date: 3/5/2019 10:00:00 AM

Analyses	Result	RL	Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analys	st: MRA
Chloride	380	50	mg/L	100 3/5/2019 5:05:02 PM	R58153
Nitrogen, Nitrite (As N)	ND	1.0	mg/L	10 3/5/2019 4:27:47 PM	R58153
Nitrogen, Nitrate (As N)	ND	1.0	mg/L	10 3/5/2019 4:27:47 PM	R58153
SM2540C MOD: TOTAL DISSOLVED SOLIDS				Analys	st: CJS
Total Dissolved Solids	1510	20.0	* mg/L	1 3/11/2019 3:35:00 PM	43589
SM 4500 NORG C: TKN				Analys	st: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1 3/8/2019 3:00:00 PM	43573

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 11
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Lab Order **1903148**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/19/2019

**CLIENT:** EA Engineering Client Sample ID: LRG-4001-5-2

 Project:
 Big Sky
 Collection Date: 3/4/2019 9:28:00 AM

 Lab ID:
 1903148-002
 Matrix: AQUEOUS
 Received Date: 3/5/2019 10:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: MRA
Nitrogen, Nitrite (As N)	ND	1.0	mg/L	10	3/5/2019 5:17:26 PM	R58153
Nitrogen, Nitrate (As N)	3.4	1.0	mg/L	10	3/5/2019 5:17:26 PM	R58153
SM 4500 NORG C: TKN					Analys	:: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1	3/8/2019 3:00:00 PM	43573

Qualifiers:	* Value	e exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D Samp	ple Diluted Due to Matrix	E	Value above quantitation range
	H Holdi	ing times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 11
	ND Not I	Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL Pract	cical Quanitative Limit	RL	Reporting Detection Limit
	S % Re	ecovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	ND Not I	Detected at the Reporting Limit ical Quanitative Limit	P RL	Reporting Detection Limit

#### Date Reported: 3/19/2019

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering Client Sample ID: 833-02

 Project:
 Big Sky
 Collection Date: 3/4/2019 9:25:00 AM

 Lab ID:
 1903148-003
 Matrix: AQUEOUS
 Received Date: 3/5/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF Date Analyzed Ba	atch
EPA METHOD 300.0: ANIONS					Analyst: <b>M</b> l	RA
Chloride	1300	50		mg/L	100 3/5/2019 5:54:39 PM R5	58153
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10 3/5/2019 5:42:14 PM R5	58153
Nitrogen, Nitrate (As N)	66	1.0	*	mg/L	10 3/5/2019 5:42:14 PM R5	58153
Sulfate	720	50		mg/L	100 3/5/2019 5:54:39 PM R5	58153
SM2540C MOD: TOTAL DISSOLVED SOLIDS					Analyst: C.	JS
Total Dissolved Solids	4180	20.0	*	mg/L	1 3/11/2019 3:35:00 PM 43	3589
SM 4500 NORG C: TKN					Analyst: O	G
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1 3/8/2019 3:00:00 PM 43	3573

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 11
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Date Reported: 3/19/2019

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering Client Sample ID: 833-04

 Project:
 Big Sky
 Collection Date: 3/4/2019 11:51:00 AM

 Lab ID:
 1903148-004
 Matrix: AQUEOUS
 Received Date: 3/5/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF Date Analyzed B	Batch
EPA METHOD 300.0: ANIONS					Analyst: N	MRA
Chloride	830	50		mg/L	100 3/5/2019 6:19:27 PM F	R58153
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10 3/5/2019 6:07:03 PM F	R58153
Nitrogen, Nitrate (As N)	31	1.0	*	mg/L	10 3/5/2019 6:07:03 PM F	R58153
Sulfate	480	50		mg/L	100 3/5/2019 6:19:27 PM F	R58153
SM2540C MOD: TOTAL DISSOLVED SOLIDS					Analyst: C	CJS
Total Dissolved Solids	2900	20.0	*	mg/L	1 3/11/2019 3:35:00 PM 4	43589
SM 4500 NORG C: TKN					Analyst: C	)G
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1 3/8/2019 3:00:00 PM 4	43573

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 11
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 3/19/2019

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering Client Sample ID: 833-07

 Project:
 Big Sky
 Collection Date: 3/4/2019 10:18:00 AM

 Lab ID:
 1903148-005
 Matrix: AQUEOUS
 Received Date: 3/5/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF D	ate Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	1100	50		mg/L	100 3	3/5/2019 7:09:05 PM	R58153
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10 3	3/5/2019 6:56:40 PM	R58153
Nitrogen, Nitrate (As N)	65	10	*	mg/L	100 3	3/5/2019 7:09:05 PM	R58153
Sulfate	600	50		mg/L	100 3	3/11/2019 10:59:34 AM	R58285
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	CJS
Total Dissolved Solids	3680	20.0	*	mg/L	1 3	3/11/2019 3:35:00 PM	43589
SM 4500 NORG C: TKN						Analyst:	OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1 3	3/8/2019 3:00:00 PM	43573

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 11
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Date Reported: 3/19/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: 833-09

 Project:
 Big Sky
 Collection Date: 3/4/2019 10:47:00 AM

 Lab ID:
 1903148-006
 Matrix: AQUEOUS
 Received Date: 3/5/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Ana	yst: MRA
Chloride	760	50		mg/L	100 3/5/2019 7:33:54 Pf	M R58153
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10 3/5/2019 7:21:30 Pf	И R58153
Nitrogen, Nitrate (As N)	45	1.0	*	mg/L	10 3/5/2019 7:21:30 Pf	M R58153
Sulfate	560	50		mg/L	100 3/11/2019 11:12:26	AM R58285
SM2540C MOD: TOTAL DISSOLVED SOLIDS					Ana	yst: CJS
Total Dissolved Solids	3130	20.0	*	mg/L	1 3/11/2019 3:35:00 F	PM 43589
SM 4500 NORG C: TKN					Ana	yst: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1 3/8/2019 3:00:00 Pf	M 43573

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 11
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

### Date Reported: 3/19/2019

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering Client Sample ID: 833-10

 Project:
 Big Sky
 Collection Date: 3/4/2019 11:15:00 AM

 Lab ID:
 1903148-007
 Matrix: AQUEOUS
 Received Date: 3/5/2019 10:00:00 AM

Analyses	Result	RL Qual	Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS				Analyst: MRA
Chloride	580	50	mg/L	100 3/5/2019 7:58:43 PM R58153
Nitrogen, Nitrite (As N)	ND	1.0	mg/L	10 3/5/2019 7:46:18 PM R58153
Nitrogen, Nitrate (As N)	1.8	1.0	mg/L	10 3/5/2019 7:46:18 PM R58153
Sulfate	400	50	mg/L	100 3/11/2019 11:25:18 AM R58285
SM2540C MOD: TOTAL DISSOLVED SOLIDS				Analyst: <b>CJS</b>
Total Dissolved Solids	2520	20.0 *	mg/L	1 3/11/2019 3:35:00 PM 43589
SM 4500 NORG C: TKN				Analyst: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1 3/8/2019 3:00:00 PM 43573

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 11
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903148** 

19-Mar-19

Client: EA Engineering

**Project:** Big Sky

Sample ID: 1903148-001AMS	SampT	ype: <b>ms</b>	1	Tes	tCode: El	PA Method	300.0: Anion	5		
Client ID: LRG-4116	Batch	1D: <b>R5</b>	8153	F	RunNo: 5	8153				
Prep Date:	Analysis Date: 3/5/2019			8	SeqNo: 1	950287	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	9.6	1.0	10.00	0	95.9	82.4	108			
Nitrogen, Nitrate (As N)	27	1.0	25.00	0.4793	104	79.1	116			
Sulfate	300	5.0	100.0	190.1	106	74.9	123			

Sample ID: 1903148-001AMSD	SampT	ype: <b>ms</b>	sd	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID: LRG-4116	Batch	n ID: <b>R5</b>	8153	F	RunNo: 5	8153				
Prep Date:	Analysis D	ate: 3/	5/2019	S	SeqNo: 1	950288	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	9.4	1.0	10.00	0	93.7	82.4	108	2.37	20	
Nitrogen, Nitrate (As N)	26	1.0	25.00	0.4793	102	79.1	116	2.37	20	
Sulfate	290	5.0	100.0	190.1	105	74.9	123	0.358	20	

Sample ID: MB	SampT	ype: <b>m</b> k	olk	Tes	tCode: El	PA Method	300.0: Anions	3		
Client ID: PBW	Batch	ID: <b>R5</b>	8153	R	tunNo: 5	8153				
Prep Date:	Analysis D	ate: 3/	6/2019	S	SeqNo: 1	950327	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: LCS	SampT	ype: Ics	i	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID: LCSW	Batch	n ID: <b>R5</b>	8153	F	RunNo: 5	8153				
Prep Date:	Analysis D	ate: 3/	6/2019	8	SeqNo: 1	950328	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.5	90	110			
Nitrogen, Nitrite (As N)	0.97	0.10	1.000	0	97.4	90	110			
Nitrogen, Nitrate (As N)	2.6	0.10	2.500	0	103	90	110			
Sulfate	10	0.50	10.00	0	103	90	110			

Sample ID: MB	SampTy	/pe: <b>ME</b>	BLK	Tes	tCode: El	PA Method	300.0: Anions	s		
Client ID: PBW	Batch	ID: R5	8285	F	tunNo: 5	8285				
Prep Date:	Analysis Da	ate: 3/	11/2019	SeqNo: 1954951			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfato	ND	0.50								

# Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 8 of 11

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 1903148

19-Mar-19

Client: EA Engineering

**Project:** Big Sky

Sample ID: LCS SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R58285 RunNo: 58285

Prep Date: Analysis Date: 3/11/2019 SeqNo: 1954952 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Sulfate 9.6 0.50 10.00 0 95.9 90 110

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 9 of 11

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903148** 

19-Mar-19

**Client:** EA Engineering

**Project:** Big Sky

Sample ID: MB-43589 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43589 RunNo: 58261

Prep Date: 3/8/2019 Analysis Date: 3/11/2019 SeqNo: 1954109 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43589 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43589 RunNo: 58261

Prep Date: 3/8/2019 Analysis Date: 3/11/2019 SeqNo: 1954110 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 975 20.0 1000 0 97.5 80 120

Sample ID: 1903148-003ADUP SampType: DUP TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: 833-02 Batch ID: 43589 RunNo: 58261

Prep Date: 3/8/2019 Analysis Date: 3/11/2019 SeqNo: 1954115 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 4130 20.0 1.03 10 \*

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 10 of 11

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 1903148

19-Mar-19

**Client: EA** Engineering

**Project:** Big Sky

Sample ID: MB-43573 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43573 RunNo: 58238

Prep Date: 3/7/2019 Analysis Date: 3/8/2019 SeqNo: 1953199 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

ND Nitrogen, Kjeldahl, Total 1.0

Sample ID: LCS-43573 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43573 RunNo: 58238

Prep Date: 3/7/2019 Analysis Date: 3/8/2019 SeqNo: 1953200 Units: mg/L

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 104 120

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Analyte detected in the associated Method Blank

Page 11 of 11



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name:	EA Engineering Alb	Work Order Number:	1903	148		RoptNo: 1
Received By:	Isaiah Ortiz	3/5/2019 10:00:00 AM			INC	4
Completed By:	Isaiah Ortiz	3/5/2019 10:07:48 AM			ILC	4
Reviewed By:	Thm. 3-9-9					
CR' DI	AD 3/5/19					
Chain of Cus						
Name of the second	ustody complete?		Yes	V	No 🗆	Not Present
2. How was the	sample delivered?		FedE	x		
Log In						
<ol><li>Was an atten</li></ol>	npt made to cool the samp	es?	Yes	<b>V</b>	No 🗆	NA 🗆
4. Were all samp	ples received at a tempera	ture of >0° C to 6.0°C	Yes	<b>v</b>	№ □	NA 🗌
5. Sample(s) in	proper container(s)?		Yes	<b>V</b>	No 🗌	
6. Sufficient sam	nple volume for indicated te	est(s)?	Yes	~	No 🗆	
	(except VOA and ONG) pro		Yes	~	No 🗆	
	tive added to bottles?		Yes		No 🗹	NA 🗆
9. VOA vials hav	/e zero headspace?		Yes		No 🗆	No VCA Vials 🗹
10. Were any san	mple containers received b	roken?	Yes		No 🔽	# -/
99						# of preserved bottles checked
	ork match bottle labels? ancies on chain of custody	Y:	Yes	~	No 🗀	for pH: (Or >12 unless noted)
	correctly identified on Chair		Yes	<b>V</b>	No 🗆	Adjusted? ND
	t analyses were requested	Caramarana and	Yes	25.00	No 🗆	
14. Were all holdi	ng times able to be met?			<b>v</b>	No 🗆	Checked by: DAO 3/5/19
0.00	ustomer for authorization.)					
	ling (if applicable) otified of all discrepancies v	idle this and av	Yes	П	No 🗆	NA 🛂
		viol tills older:	res	ш	NO L	NA BE
	Notified:	Date:	12000	W 192	Carlo Assess	
By Who	,	Via:	_ eMa	ail _	Phone Fax	In Person
Regard Client In	nstructions:					
16. Additional re						
<ol> <li>Cooler Infor Cooler No</li> </ol>	14211-17	Seal Intact   Seal No   S	Cool D	nto	Cinned D.	i .
1	1.2 Good	Yes	Seal D	ate	Signed By	

U	hain-	of-Cu	Chain-of-Custody Record	Turn-Around Time:	Lime:		Ī					COL		Ė		
Client:		eering, Sci	EA Enginearing, Science, and Technology	页 Standard	□ Rush			1		A P	SIS	AALL ENVIRONMEN IAL ANALYSIS LABORATORY	PRA'	20	۲ ≿	
				Project Name:				童	W	w.halle	nviron	www.hallenvironmental.com				
Maing Add	ress. 320 Gold	Ave SW Suite	Mainry Address. 320 Gold Ave SW Suite 1300 Albuquerque, NM, 37102		Big Sky		490	1 Ha	wkins	NE	Mbuqu	4901 Hawkins NE - Albuquerque, NM 87109	37109			
				Project #:			Tel	505	345-	Tel. 505-345-3975	Fax	Fax 505-345-4107	20			
Phone #:	#	505-715-4279	4279							An	alysis	Analysis Request				
email o	email or Fax#:		rmullen@eaest.com	Project Manager:	jer.		0.0						•			
QA/QC Packa □ Standard	QA/QC Package:		☐ Level 4 (Full Validation)		Gina Mullen		OE pou	0	-		8		14			
Accreditation:	itation:	3		72	Justin Vasgres	2	eM A	2500000	50000000		0109				(N -	1
O EDC	C EDD (Type)			Sample Temp	1,	2.2	d3 e:	A C - 4 2 2 2	Maraic		/d3 :		-		0 1)	0 11
Date	Dute. Firme	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	Nitrate/Nitrit	TKN SM 45	Chloride EP	Sulfate EPA	Phosphorus	Total Sulfur			Selddu8 1iA	DOLGODO III I
100	34-19	W	LR6-4116	2		100-	×		×							
720	1	_	186-4001-5-2	d		7007	X	×							-	- 1
925			833-02	4		-003	×	X	×	X						
1511			ha-689	7		100-	×	X	X	X						-11
8101			833 c7	7		500-	X	X	X	×					194	7.0
440,			633-09	2		900-	X	X	X	×						
1112	0	-	833-10	2		ر ص-	Х	X	X	X				_		
								+	+				#	+	Carrie	
								+	+	1	+		1	+	-	- 1
								+	+	#	+		+	+		
								+	+		+					-
Date:	Time:	Relinquished by:	ed by:	Received by:	201.07	Date Time	Remarks									2
Date:	Time:	Relinquished by	ed by:	Received by:	202	Date	_									

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 19, 2019

Regina Mullen
EA Engineering
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Big Sky OrderNo.: 1903204

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/6/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

# Lab Order **1903204**Date Reported: **3/19/2019**

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: 833-05

 Project:
 Big Sky
 Collection Date: 3/5/2019 8:58:00 AM

 Lab ID:
 1903204-001
 Matrix: AQUEOUS
 Received Date: 3/6/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	1200	50		mg/L	100	3/6/2019 7:11:18 PM	R58184
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/6/2019 6:58:26 PM	R58184
Nitrogen, Nitrate (As N)	46	1.0	*	mg/L	10	3/6/2019 6:58:26 PM	R58184
Sulfate	510	50		mg/L	100	3/6/2019 7:11:18 PM	R58184
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: KS
Total Dissolved Solids	3520	20.0	*	mg/L	1	3/12/2019 7:22:00 PM	43609
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/12/2019 2:00:00 PM	43614

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 6
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

# Lab Order **1903204**Date Reported: **3/19/2019**

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering Client Sample ID: 833-06

 Project:
 Big Sky
 Collection Date: 3/5/2019 10:55:00 AM

 Lab ID:
 1903204-002
 Matrix: AQUEOUS
 Received Date: 3/6/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	780	50		mg/L	100	3/6/2019 7:37:01 PM	R58184
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/6/2019 7:24:09 PM	R58184
Nitrogen, Nitrate (As N)	47	1.0	*	mg/L	10	3/6/2019 7:24:09 PM	R58184
Sulfate	500	5.0		mg/L	10	3/6/2019 7:24:09 PM	R58184
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	KS
Total Dissolved Solids	2710	20.0	*	mg/L	1	3/12/2019 7:22:00 PM	43609
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/12/2019 2:00:00 PM	43614

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 6
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

# Lab Order **1903204**Date Reported: **3/19/2019**

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering Client Sample ID: 833-08

 Project:
 Big Sky
 Collection Date: 3/5/2019 9:42:00 AM

 Lab ID:
 1903204-003
 Matrix: AQUEOUS
 Received Date: 3/6/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	890	50		mg/L	100	3/6/2019 8:02:44 PM	R58184
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/6/2019 7:49:53 PM	R58184
Nitrogen, Nitrate (As N)	48	1.0	*	mg/L	10	3/6/2019 7:49:53 PM	R58184
Sulfate	460	50		mg/L	100	3/6/2019 8:02:44 PM	R58184
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	KS
Total Dissolved Solids	3040	20.0	*	mg/L	1	3/12/2019 7:22:00 PM	43609
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/12/2019 2:00:00 PM	43614

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	Е	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 6
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 1903204

19-Mar-19

**Client:** EA Engineering

**Project:** Big Sky

Sample ID: MB	SampT	ype: <b>m</b> k	olk	Tes	tCode: El	PA Method	300.0: Anion	6		
Client ID: PBW	Batch	1D: <b>R5</b>	8184	R	tunNo: 5	8184				
Prep Date:	Analysis D	ate: 3/	6/2019	S	SeqNo: 1	951427	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: LCS	SampT	ype: Ics	i	Tes	tCode: El	PA Method	300.0: Anions	6		
Client ID: LCSW	Batcl	n ID: <b>R5</b>	8184	F	RunNo: 5	8184				
Prep Date:	Analysis D	ate: 3/	6/2019	8	SeqNo: 1	951428	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	98.1	90	110			
Nitrogen, Nitrite (As N)	1.0	0.10	1.000	0	100	90	110			
Nitrogen, Nitrate (As N)	2.6	0.10	2.500	0	104	90	110			
Sulfate	10	0.50	10.00	0	102	90	110			

#### NOTES:

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 4 of 6

<sup>\*</sup> A cleanup step was performed on the extract before analysis.

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903204** 

19-Mar-19

**Client:** EA Engineering

**Project:** Big Sky

Sample ID: MB-43609 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43609 RunNo: 58309

Prep Date: 3/11/2019 Analysis Date: 3/12/2019 SeqNo: 1955585 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43609 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43609 RunNo: 58309

Prep Date: 3/11/2019 Analysis Date: 3/12/2019 SeqNo: 1955586 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

Sample ID: 1903204-002ADUP SampType: DUP TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: 833-06 Batch ID: 43609 RunNo: 58309

Prep Date: 3/11/2019 Analysis Date: 3/12/2019 SeqNo: 1955589 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 2720 20.0 0.553 10 \*

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 5 of 6

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 1903204

19-Mar-19

Client: EA Engineering

**Project:** Big Sky

Sample ID: MB-43614 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43614 RunNo: 58308

Prep Date: 3/11/2019 Analysis Date: 3/12/2019 SeqNo: 1955564 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43614 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43614 RunNo: 58308

Prep Date: 3/11/2019 Analysis Date: 3/12/2019 SeqNo: 1955565 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 102 80 120

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NL Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

C	lient Name:	EA Engine	ering Alb	Work	Order Numbe	r. 190	3204			RcptNo: 1
Re	eceived By:	Isaiah Ort	iz	3/6/201	9 9:00:00 AM			工	_0	4
	ompleted By: eviewed By: B* VVZ	Erin Meler (20) (3)		3/6/2019	9 9:40:06 AM 9			I U	uz	7
Ch	ain of Cust									
355	Is Chain of Cu		lete?			Yes	V	No		Not Present
2.	How was the s	sample deliv	ered?			Fed	Ex			
L	og In									
3.	Was an attem	pt made to o	ool the samp	les?		Yes	~	No		NA 🗆
4.	Were all samp	les received	at a tempera	ture of >0° C t	o 6.0°C	Yes	V	No		NA 🗆
5.	Sample(s) in p	roper contai	ner(s)?			Yes	V	No		
6.	Sufficient samp	ole volume f	or indicated to	est(s)?		Yes	<b>V</b>	No		
7.	Are samples (e	except VOA	and ONG) pro	perly preserve	d?	Yes	~	No		
8.	Was preservat	ive added to	bottles?			Yes		No	~	NA 🗆
9.	VOA vials have	e zero heads	pace?			Yes		No		No VOA Vials 🗹
10.	Were any sam	ple containe	ers received b	roken?		Yes		No	V	# of preserved
	Does paperwo (Note discrepa			Y		Yes	<b>V</b>	No		bottles checked for pH: (<2)gr >12 unless noted)
	Are matrices o			33		Yes	~	No		Adjusted ()
13.	ls it clear what	analyses we	ere requested	?		Yes	~	No		86.00
	Were all holdin (If no, notify cu					Yes	<b>Y</b>	No		Checked by: VVZ3[6[19]
	cial Handli									
320	Was client not	2. W		with this order?		Yes		No		NA 🗹
	Person I By Who				Date:   Via:	eM	ail 🔲	Phone	] Fax	☐ In Person
	Regardii Client In	ng: structions:								
16.	Additional ren	narks:								
17.	Cooler Inform	mation Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Signed	Ву	
	1	0.1	Good	Yes					15	

_	Shain	-of-CL	Chain-of-Custody Record	Turn-Around Time:	Time:				,	- 1				j			200	
Client		ncering, Sc	EA Engineering, Science, and Technology	Z Standard	□ Rush	4			T @	Z Z		Ź	IR	HALL ENVIRONMENTAL ANAI YSTS I ABODATODY	M	ΞÈ	<b>E</b> 8	.>
				Project Name:	v				•						2		5	-
Maling Ad	dress: 320 Go	ld Ave SW Suite	Mailing Address: 320 Gold Ave SW Suite 1360 Albuquerque, NM, 87102		Big Sky		—— ₹	901	Jawk	N SU	Y - 1	Ibuan	ins NE - Albuqueraue, NM	www.raireirvirolinteritai.com 4901 Hawkins NE - Albuquerque, NM 87109	7109	1992		
				Project #:			_	el 5	05-34	Tel. 505-345-3975	7.	Fax	505-3	Fax 505-345-4107	70			
Phone #:	#	505-715-4279	4279								Ana	lysis	Analysis Request	est				
email	email or Fax#:		rmullen@eaest.com	Project Manager:	jer.		0.0			r	H	L		H	L			H
QA/QC	QA/QC Package:						)0E P											
□ Standard	ndard		□ Level 4 (Full Validation)		Gina Mullen		С			-	_	80						
Accreditati	Accreditation:	□ Other		Sampler: J	Justin Vesque	\ □ No	∍M A	-000,00000	0.00		0.	)109 A						(N -
O EDI	□ EDD (Type)				Temperature:	2.17	9 EE		)E A		300	Eb)						o V)
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	1903704	Vitrate/Nitrit	TKN SM 45	Chloride EP	TDS SM 25	Sulfate EPA	Phosphorus	Total Sulfur		7			Air Bubbles
4-5	253	3	633-45	7		- 001	×	X	X	X	X							-
_	1055	>	833-06	77		-002	X	X	×	X	Y							
1	942	3	G33-00	7		-003	X	X	X	X	Y							
				63														
													-					
										$\forall$	_		$\forall$					
										$\forall$	$\dashv$			4			$\forall$	
										$\dashv$	$\dashv$							
										+	_							
Date:	Time:	Relinquished by:	ed by:	Received by:		Date Time	Remarks			$\dashv$	$\dashv$							
5-19	1630	P	en	95	todex	3619 0900												
Date:	Time:	Relinquished by:	ed by:	Received by:														

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 12, 2019

Regina Mullen
EA Engineering Alb
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Bright Star Dairy OrderNo.: 1902A67

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 5 sample(s) on 2/26/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/12/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: LRG-00953

**Project:** Bright Star Dairy
 Collection Date: 2/25/2019 11:42:00 AM

 **Lab ID:** 1902A67-001
 Matrix: AQUEOUS
 Received Date: 2/26/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	870	50		mg/L	100	2/26/2019 3:11:17 PM	R57967
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/26/2019 2:58:25 PM	R57967
Nitrogen, Nitrate (As N)	12	1.0	*	mg/L	10	2/26/2019 2:58:25 PM	R57967
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: KS
Total Dissolved Solids	2700	20.0	*	mg/L	1	3/3/2019 6:56:00 PM	43445
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/4/2019 5:00:00 PM	43460

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 8
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 3/12/2019

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering Alb Client Sample ID: 340-01

**Project:** Bright Star Dairy
 Collection Date: 2/25/2019 11:19:00 AM

 **Lab ID:** 1902A67-002
 Matrix: AQUEOUS
 Received Date: 2/26/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	630	50		mg/L	100	2/26/2019 4:02:44 PM	R57967
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/26/2019 3:49:52 PM	R57967
Nitrogen, Nitrate (As N)	50	1.0	*	mg/L	10	2/26/2019 3:49:52 PM	R57967
Sulfate	520	50		mg/L	100	2/26/2019 4:02:44 PM	R57967
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: KS
Total Dissolved Solids	3020	100	*D	mg/L	1	3/3/2019 6:56:00 PM	43445
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/4/2019 5:00:00 PM	43460

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 8
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 3/12/2019

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering Alb Client Sample ID: 340-02

**Project:** Bright Star Dairy
 Collection Date: 2/25/2019 11:32:00 AM

 **Lab ID:** 1902A67-003
 Matrix: AQUEOUS
 Received Date: 2/26/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	770	50		mg/L	100	2/26/2019 4:28:29 PM	R57967
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/26/2019 4:15:36 PM	R57967
Nitrogen, Nitrate (As N)	67	10	*	mg/L	100	2/26/2019 4:28:29 PM	R57967
Sulfate	420	50		mg/L	100	2/26/2019 4:28:29 PM	R57967
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: KS
Total Dissolved Solids	3080	40.0	*D	mg/L	1	3/3/2019 6:56:00 PM	43445
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/4/2019 5:00:00 PM	43460

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 8
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/12/2019

CLIENT: EA Engineering Alb Client Sample ID: 86/340-01

**Project:** Bright Star Dairy
 Collection Date: 2/25/2019 9:41:00 AM

 **Lab ID:** 1902A67-004
 Matrix: AQUEOUS
 Received Date: 2/26/2019 8:50:00 AM

Analyses	Result	RL	Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst	MRA
Chloride	250	50	mg/L	100 2/26/2019 4:54:13 PM	R57967
Nitrogen, Nitrite (As N)	ND	1.0	mg/L	10 2/26/2019 4:41:20 PM	R57967
Nitrogen, Nitrate (As N)	7.0	1.0	mg/L	10 2/26/2019 4:41:20 PM	R57967
Sulfate	650	50	mg/L	100 2/26/2019 4:54:13 PM	R57967
SM2540C MOD: TOTAL DISSOLVED SOLIDS				Analyst	: KS
Total Dissolved Solids	1910	20.0	* mg/L	1 3/3/2019 6:56:00 PM	43445
SM 4500 NORG C: TKN				Analyst	OG
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1 3/4/2019 5:00:00 PM	43460

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 8
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 3/12/2019

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering Alb Client Sample ID: 70/86/340-01

**Project:** Bright Star Dairy
 Collection Date: 2/25/2019 10:58:00 AM

 **Lab ID:** 1902A67-005
 Matrix: AQUEOUS
 Received Date: 2/26/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF 1	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	1700	50		mg/L	100	2/26/2019 5:19:56 PM	R57967
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/26/2019 5:07:05 PM	R57967
Nitrogen, Nitrate (As N)	21	1.0	*	mg/L	10	2/26/2019 5:07:05 PM	R57967
Sulfate	950	50		mg/L	100	2/26/2019 5:19:56 PM	R57967
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	KS
Total Dissolved Solids	4750	20.0	*	mg/L	1	3/3/2019 6:56:00 PM	43445
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/4/2019 5:00:00 PM	43460

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 8
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1902A67** 

12-Mar-19

Client: EA Engineering Alb
Project: Bright Star Dairy

Sample ID: MB SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBW Batch ID: **R57967** RunNo: 57967 Prep Date: Analysis Date: 2/26/2019 SeqNo: 1941276 Units: mg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride ND 0.50 Nitrogen, Nitrite (As N) ND 0.10 Nitrogen, Nitrate (As N) ND 0.10 Sulfate ND 0.50

Sample ID: LCS	SampT	ype: Ics	i	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID: LCSW	Batch	n ID: <b>R5</b>	7967	F	RunNo: 5	7967				
Prep Date:	Analysis D	oate: 2/	26/2019	\$	SeqNo: 1	941277	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.8	90	110			
Nitrogen, Nitrite (As N)	0.95	0.10	1.000	0	94.9	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	98.7	90	110			
Sulfate	9.8	0.50	10.00	0	98.3	90	110			

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 6 of 8

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 1902A67

12-Mar-19

**Client:** EA Engineering Alb **Project: Bright Star Dairy** 

Sample ID: MB-43445 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43445 RunNo: 58064

Prep Date: 3/1/2019 Analysis Date: 3/3/2019 SeqNo: 1945938 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43445 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43445 RunNo: 58064

Prep Date: 3/1/2019 Analysis Date: 3/3/2019 SeqNo: 1945939 Units: mg/L

SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result **PQL** Qual

Total Dissolved Solids 1010 20.0 1000 0 101 120

Sample ID: 1902A67-005ADUP SampType: DUP TestCode: SM2540C MOD: Total Dissolved Solids

70/86/340-01 Batch ID: 43445 RunNo: 58064

Prep Date: 3/1/2019 Analysis Date: 3/3/2019 SeqNo: 1945946 Units: mg/L

SPK value SPK Ref Val %REC LowLimit Result **PQL** HighLimit %RPD **RPDLimit** Analyte Qual

Total Dissolved Solids 4740 20.0 0.295

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Η

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

P

Sample pH Not In Range

RLReporting Detection Limit Sample container temperature is out of limit as specified Page 7 of 8

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1902A67** 

12-Mar-19

Client: EA Engineering Alb
Project: Bright Star Dairy

Sample ID: MB-43460 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43460 RunNo: 58101

Prep Date: 3/1/2019 Analysis Date: 3/4/2019 SeqNo: 1947962 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43460 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43460 RunNo: 58101

Prep Date: 3/1/2019 Analysis Date: 3/4/2019 SeqNo: 1947963 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 104 80 120

Sample ID: 1902A67-004AMS SampType: MS TestCode: SM 4500 Norg C: TKN

Client ID: 86/340-01 Batch ID: 43460 RunNo: 58101

Prep Date: 3/1/2019 Analysis Date: 3/4/2019 SeqNo: 1947977 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 102 75 125

Sample ID: 1902A67-004AMSD SampType: MSD TestCode: SM 4500 Norg C: TKN

Client ID: 86/340-01 Batch ID: 43460 RunNo: 58101

Prep Date: 3/1/2019 Analysis Date: 3/4/2019 SeqNo: 1947978 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 104 75 125 1.36 20

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 8 of 8



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

(EL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name:	EA Engineering Alb	Work Order Nun	nber: 1902A67		RcptNo:	1
Received By:	Leah Baca	2/26/2019 8:50:00	AM	M Page		
Completed By:	Isaiah Ortiz	2/26/2019 9:11:36	AM	In Bren	` i!	
•	TUM 2-26-19			make heart than	<b>~</b>	
	2/24/1K					
Chain of Cus	, ,					
· ·	sustody complete?		Yes 🗹	No 🗔	Not Present	
2. How was the	sample delivered?		Courier		_	
Log In  3 Was an atten	npt made to cool the sample	n?	V [7]	Na 🗂	NA 🗔	
o. Was an atten	internace to cool the sample	51	Yes 🗹	No	NA L	
4. Were all sam	ples received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sam	nple volume for indicated tes	t(s)?	Yes 🗹	No 🗌		
7. Are samples (	(except VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗌		
8. Was preserva	tive added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. VOA vials hav	e zero headspace?		Yes 🗌	No 🗌	No VOA Vials <b>✓</b>	
10. Were any sar	mple containers received bro	ken?	Yes	No 🗹		
					# of preserved bottles checked	<
	ork match bottle labels?		Yes 🗹	No 🗆	for pH:	)
	ancies on chain of custody) correctly identified on Chain	of Custody?	V	Na 🗆	Adjusted?	>12 unless noted)
	t analyses were requested?	of Custody?	Yes ✔ Yes ✔	No □   No □		
	ng times able to be met?		Yes 🗹	No 🗆	Checked by:	16 21261
	ustomer for authorization.)		100 🖭			
Special Handl	ing (if applicable)					
15. Was client no	tified of all discrepancies wi	th this order?	Yes	No 🗌	NA 🗹	
Person	Notified:	Date	:			
By Who	om:	Via:	eMail P	hone  Fax	☐ In Person	
Regardi	ing:					
Client Ir	nstructions:	Z				
16. Additional rer	marks:					I
17. <u>Cooler Infor</u> Cooler No	Temp °C   Condition	Seal Intact   Seal No	Seal Date	Signed By		
		77777 T C W A Law 200	* CAPPATA PERE, PERENTANA DE COMPANION CONTRANTANA DE CAPPATA A ANTICA DE CAPPATA A AN			

J	hain	-of-Cu	Chain-of-Custody Record	Turn-Around Time:	Lime:					•							•		
Client:		neering, Sci	EA Engineering, Science, and Technology	∰Standard	□ Rush			200.00 200.00 200.00 200.00 200.00		K Z	     		HALL ENVIKONMENTAL ANALYSIS LABORATORY		ת האל	2	<u> </u>	. >	
				Project Name:					_	, X	v.halle		www.hallenvironmental.com	Com				■.	
Mailing Ado	ress: 320 Golt	d Ave SW Suite	Mailing Address: 320 Gold Ave SW Suite 1300 Albuquerque, NM, 87102		Bright Star Dairy	Dairy		4901	Haw	kins	¥	Albuq	4901 Hawkins NE - Albuquerque, NM 87109	NN 8	37109	_	•		
				Project #:				Te.	505-3	505-345-3975	375	Fax	505-3	505-345-4107	07			-	
Phone #:	#	505-715-4279	4279	٠							An	alysis	Analysis Request	est					
email c	email or Fax#:	rmullen@	rmullen@eaest.com	Project Manager:	jer.		-	.008	· ·						· -				
QA/QC	QA/QC Package:				Gina Mullen			po											
☐ Standard	ıdard		☐ Level 4 (Full Validation)							•		801							
Accreditation:	itation: AP	□ Other		Sampler: To On loe:	Justin Vusg.	7¢					0.0	.09 AG						(N JC	/2
	□ EDD (Type)	'		Sample Temp	remperature: $- \hat{O}$	4				<u> </u>	30							) <u>(</u> )	, : \
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO 1902/167		Nitrate/Nitr TKN SM 45	Chloride El	TDS SM 25	Sulfate EPA	Phosphoru	uìlu8 letoT				;	Air Bubbles	coldanal
2-25-19	11:42	3	LRG-00953	7		188	3	メ	ᆚ	×								•	
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	11:32		340-62	ત		0003		×	×	×	×								
	11/6	÷	86/346-01	ત		004	,,	×	X	×	×								
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Date:	Time:	Relinquished by:	d by:	Received by:	Commercan	7. Date Time						÷				÷			
	If necessary,	samples subr	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	ontracted to other ac	credited laboratori	es. This serves as notice of this	ligissod	ty. Any	sup-co	ntracte	data w	ll be clea	rly notate	d on the	analytic	al repor	نوا		1



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 19, 2019

Regina Mullen
EA Engineering Alb
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Buena Vista Dairy #2 OrderNo.: 1903022

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/1/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

### Lab Order 1903022

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/19/2019

CLIENT: EA Engineering Alb Client Sample ID: LRG-01876

 Project:
 Buena Vista Dairy #2
 Collection Date: 2/28/2019 11:17:00 AM

 Lab ID:
 1903022-001
 Matrix: AQUEOUS
 Received Date: 3/1/2019 8:53:00 AM

Analyses	Result	RL (	Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst: I	MRA
Chloride	370	50	mg/L	100 3/1/2019 2:58:01 PM	R58078
Nitrogen, Nitrite (As N)	ND	1.0	mg/L	10 3/1/2019 2:45:10 PM	R58078
Nitrogen, Nitrate (As N)	1.5	1.0	mg/L	10 3/1/2019 2:45:10 PM	R58078
SM2540C MOD: TOTAL DISSOLVED SOLIDS				Analyst: (	CJS
Total Dissolved Solids	1450	20.0	* mg/L	1 3/8/2019 9:35:00 AM	43522
SM 4500 NORG C: TKN				Analyst: (	OG
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1 3/7/2019 2:00:00 PM	43543

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 7
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Lab Order **1903022**Date Reported: **3/19/2019**

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 74-01

 Project:
 Buena Vista Dairy #2
 Collection Date: 2/28/2019 1:15:00 PM

 Lab ID:
 1903022-002
 Matrix: AQUEOUS
 Received Date: 3/1/2019 8:53:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	930	50		mg/L	100	3/1/2019 3:49:28 PM	R58078
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/1/2019 3:36:36 PM	R58078
Nitrogen, Nitrate (As N)	52	1.0	*	mg/L	10	3/1/2019 3:36:36 PM	R58078
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	3460	20.0	*	mg/L	1	3/8/2019 9:35:00 AM	43522
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/7/2019 2:00:00 PM	43543

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 7
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Lab Order 1903022

Client Sample ID: 74-02

Date Reported: 3/19/2019

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering Alb

**Project:** Buena Vista Dairy #2 **Collection Date:** 2/28/2019 11:58:00 AM

**Lab ID:** 1903022-003 **Matrix:** AQUEOUS **Received Date:** 3/1/2019 8:53:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	560	50		mg/L	100	3/1/2019 4:15:13 PM	R58078
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/1/2019 4:02:20 PM	R58078
Nitrogen, Nitrate (As N)	36	1.0	*	mg/L	10	3/1/2019 4:02:20 PM	R58078
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	2400	20.0	*	mg/L	1	3/8/2019 9:35:00 AM	43522
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/7/2019 2:00:00 PM	43543

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 7
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Lab Order **1903022**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/19/2019

CLIENT: EA Engineering Alb Client Sample ID: 74-03

**Project:** Buena Vista Dairy #2 **Collection Date:** 2/28/2019 12:28:00 PM

**Lab ID:** 1903022-004 **Matrix:** AQUEOUS **Received Date:** 3/1/2019 8:53:00 AM

Analyses	Result	RL	Qual 1	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	250	50		mg/L	100	3/1/2019 4:40:57 PM	R58078
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/1/2019 4:28:05 PM	R58078
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	3/1/2019 4:28:05 PM	R58078
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	1550	40.0	*D	mg/L	1	3/8/2019 9:35:00 AM	43522
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/7/2019 2:00:00 PM	43543

-				
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 7
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903022** 

19-Mar-19

Client: EA Engineering Alb
Project: Buena Vista Dairy #2

Sample ID: MB	SampT	ype: <b>ml</b>	olk	Tes	tCode: E	PA Method	300.0: Anions	6		
Client ID: PBW	Batch	n ID: <b>R5</b>	8078	F	RunNo: 5	8078				
Prep Date:	Analysis D	oate: 3/	1/2019	5	SeqNo: 1	946868	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								

Sample ID: LCS	SampT	Type: Ics	;	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: LCSW	Batcl	h ID: <b>R5</b>	8078	F	RunNo: 5	8078				
Prep Date:	Analysis D	Date: 3/	1/2019	9	SeqNo: 1	946869	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	97.0	90	110			
Nitrogen, Nitrite (As N)	1.0	0.10	1.000	0	99.5	90	110			
Nitrogen, Nitrate (As N)	2.6	0.10	2.500	0	102	90	110			

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 5 of 7

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903022** 

19-Mar-19

Client: EA Engineering Alb
Project: Buena Vista Dairy #2

Sample ID: MB-43522 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43522 RunNo: 58224

Prep Date: 3/5/2019 Analysis Date: 3/8/2019 SeqNo: 1953005 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43522 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43522 RunNo: 58224

Prep Date: 3/5/2019 Analysis Date: 3/8/2019 SeqNo: 1953006 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1000 20.0 1000 0 100 80 120

Sample ID: 1903022-001ADUP SampType: DUP TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LRG-01876 Batch ID: 43522 RunNo: 58224

Prep Date: 3/5/2019 Analysis Date: 3/8/2019 SeqNo: 1953008 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1460 20.0 0.895 10 \*

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 6 of 7

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903022** 

19-Mar-19

Client: EA Engineering Alb
Project: Buena Vista Dairy #2

Sample ID: MB-43543 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43543 RunNo: 58218

Prep Date: 3/6/2019 Analysis Date: 3/7/2019 SeqNo: 1952830 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43543 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43543 RunNo: 58218

Prep Date: 3/6/2019 Analysis Date: 3/7/2019 SeqNo: 1952831 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 101 80 120

Sample ID: 1903022-001AMS SampType: MS TestCode: SM 4500 Norg C: TKN

Client ID: LRG-01876 Batch ID: 43543 RunNo: 58218

Prep Date: 3/6/2019 Analysis Date: 3/7/2019 SeqNo: 1952838 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 102 75 125

Sample ID: 1903022-001AMSD SampType: MSD TestCode: SM 4500 Norg C: TKN

Client ID: LRG-01876 Batch ID: 43543 RunNo: 58218

Prep Date: 3/6/2019 Analysis Date: 3/7/2019 SeqNo: 1952839 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 102 75 125 0 20

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 7 of 7



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name:	EA Engineering Alb	Work Order Numb	per: 1903022	······································	RcptNo: 1
Received By:	Yazmine Garduno	3/1/2019 8:53:00 AI	М	Afaznin léfnáste	
Completed By:	Victoria Zellar	3/1/2019 10:17:32 A	λM	Victoria Gil	lanı,
Reviewed By: V	1723/1/19				labeled by
Chain of Cust	ody				DUD SILLA
1. Is Chain of Cu	stody complete?		Yes 🗹	No 🗌	Not Present
2. How was the s	sample delivered?		FedEx		
<u>Log In</u>					
3. Was an attemp	ot made to cool the sample	s?	Yes 🗹	No 🗌	NA 🗆
4. Were all sampl	les received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆
5. Sample(s) in p	roper container(s)?		Yes 🗹	No 🗌	
6. Sufficient samp	ole volume for indicated tes	t(s)?	Yes 🗹	No 🗌	
7. Are samples (e	xcept VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗀	
8. Was preservati	ve added to bottles?		Yes 🗌	No 🗹	NA 🗆
9. VOA vials have	zero headspace?		Yes	No 🗌	No VOA Vials
10. Were any sam	ple containers received bro	ken?	Yes 🗌	No 🗹	# of preserved
	k match bottle labels?		Yes 🗹	No 🗆	for pH:
	ncies on chain of custody)		🗖	$\Box$	Adjusted?
	orrectly identified on Chain analyses were requested?	of Custody?	Yes ✔ Yes ✔	No □ No □	Adjusted? NO
14. Were all holdin	g times able to be met?		Yes 🗹	No 🗆	Checked by: <u>5/40 3////9</u>
	stomer for authorization.)  ng (if applicable)			_	,
	ified of all discrepancies wi	th this order?	Yes 🗌	No 🗌	NA <b>⊻</b>
Person N	Miles and a second a second and	Date	1		
By Whon	у	Via:	≀ □ eMail □	Phone Fax	In Person
Regardin	ng:				
Client Ins	structions:				The state of the s
16. Additional rem	narks:				
17. <u>Cooler Inform</u> Cooler No	Temp °C Condition	Seal Intact   Seal No	Seal Date	Signed By	

J	hain.	-of-Cu	Chain-of-Custody Record	Turn-Around Time:	Time:				3	-		į	Ş			ŀ	-	
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		-		Project Name:		1.1			¦	www.hallenvironmental.com	envirc	nmen	tal.co	E			•	
ailing Add	ress: 320 Gold	Ave SW Suite	ailing Address: 320 Gold Ave SW Suite 1300 Albuquerque, NM, 87102	-	Buena Vista Dairy #2	Dairy #2	490	Ha	wkins	4901 Hawkins NE - Albuquerque, NM 87109	Albuc	luerqu	ē. N	1871	60			
:				Project #:			Ţ	. 505	-345	Tel. 505-345-3975	Fax	. 505	505-345-4107	1107	٠			
hone #:	#:	505-715-4279	4279		-	,				٧	Analysis Request	s Req	uest					
mail o	mail or Fax#:	rmullen@	<u>rmullen@eaest.com</u>	Project Manager:	Jer:		0.0					_		•				
3A/QC	AA/QC Package:				Gina Mullen		300			-	-							
Star	Standard		☐ Level 4 (Full Validation)				ф	၁		٠.								
Accred	Accreditation:	□ Other		Sampler: J	Tuth Progra	no.	∌M Aq											(N x
] EDL	EDD (Type)				emperature: 0	8.C	∃ <del> </del>								•			o Y)
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	Vitrate/Vitrit	TKN SM 450	Chloride EP.			•		-				Air Bubbles
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	If necessary,	samples subr	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	ontracted to other ac	redited laboratorie	s. This serves as notice of this	possibility. A	ny sub-	contrac	ed data	vill be cle	arly nota	ted on t	he analy	dical re	ort.		]



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 13, 2019

Regina Mullen
EA Engineering Alb
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Buena Vista Dairy #2 OrderNo.: 1903066

### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/2/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

## Date Reported: 3/13/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 74-05

**Project:** Buena Vista Dairy #2
 Collection Date: 3/1/2019 10:11:00 AM

 **Lab ID:** 1903066-001
 Matrix: AQUEOUS
 Received Date: 3/2/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: smb
Chloride	590	50		mg/L	100	3/4/2019 10:38:11 PM	A58113
Nitrate+Nitrite as N	15	1.0	*	mg/L	5	3/4/2019 11:42:29 PM	A58113
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	2140	20.0	*	mg/L	1	3/11/2019 9:16:00 AM	43564
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/8/2019 1:00:00 PM	43572

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 5
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 3/13/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 74-04

 Project:
 Buena Vista Dairy #2
 Collection Date: 3/1/2019 9:26:00 AM

 Lab ID:
 1903066-002
 Matrix: AQUEOUS
 Received Date: 3/2/2019 9:30:00 AM

**RL Qual Units Analyses** Result **DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: smb 100 3/4/2019 11:03:53 PM Chloride A58113 600 50 mg/L Nitrate+Nitrite as N 12 1.0 mg/L 3/4/2019 11:55:21 PM A58113 SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: CJS **Total Dissolved Solids** 20.0 3/11/2019 9:16:00 AM 43564 2140 mg/L SM 4500 NORG C: TKN Analyst: **OG** Nitrogen, Kjeldahl, Total ND 2.0 mg/L 3/8/2019 1:00:00 PM 43572

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 5
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903066** 

Qual

13-Mar-19

Client: EA Engineering Alb
Project: Buena Vista Dairy #2

Sample ID: MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: A58113 RunNo: 58113

Prep Date: Analysis Date: 3/4/2019 SeqNo: 1948632 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Chloride
 ND
 0.50

 Nitrate+Nitrite as N
 ND
 0.20

Sample ID: LCS SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: A58113 RunNo: 58113

Prep Date: Analysis Date: 3/4/2019 SeqNo: 1948633 Units: mg/L

**RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Chloride 4.8 0.50 5.000 0 95.3 90 110 3.5 3.500 0 99.8 90 Nitrate+Nitrite as N 0.20 110

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 3 of 5

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903066** 

13-Mar-19

Client: EA Engineering Alb
Project: Buena Vista Dairy #2

Sample ID: MB-43564 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43564 RunNo: 58249

Prep Date: 3/7/2019 Analysis Date: 3/11/2019 SeqNo: 1953574 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43564 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43564 RunNo: 58249

Prep Date: 3/7/2019 Analysis Date: 3/11/2019 SeqNo: 1953575 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

Sample ID: 1903066-002ADUP SampType: DUP TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: 74-04 Batch ID: 43564 RunNo: 58249

Prep Date: 3/7/2019 Analysis Date: 3/11/2019 SeqNo: 1953591 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 2140 20.0 0.281 10 \*

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 4 of 5

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1903066

13-Mar-19

Client: EA Engineering Alb
Project: Buena Vista Dairy #2

Sample ID: MB-43572 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43572 RunNo: 58237

Prep Date: 3/7/2019 Analysis Date: 3/8/2019 SeqNo: 1953179 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43572 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43572 RunNo: 58237

Prep Date: 3/7/2019 Analysis Date: 3/8/2019 SeqNo: 1953180 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 102 80 120

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name:	EA Engineering Alb	Work Order Nu	mber: 1903066		RcptNo: 1
Received By:	Desiree Dominguez	3/2/2019 9:30:00	AM	TP>	
Completed By:	Desiree Dominguez	3/2/2019 10:01:1		1	
Reviewed By:	_ਰ	3/5/19			
_	DAD 3/2/19	1 / /			
Chain of Cust					
1. Is Chain of Cu			Yes 🗹	No 🗌	Not Present
2. How was the s	•		FedEx		
Log In					
	ot made to cool the sample	es?	Yes 🗹	No 🗌	NA 🗆
				_	
4. Were all sampl	es received at a temperati	ure of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗀
5. Sample(s) in p	roper container(s)?		Yes 🗸	No 🗆	
6. Sufficient samp	ole volume for indicated te	st(s)?	Yes 🗹	No 🖸	
7. Are samples (e	xcept VOA and ONG) proj	perly preserved?	Yes 🗹	No 🗌	
8. Was preservati	ve added to bottles?		Yes 🗌	No 🗹	NA $\square$
9. VOA vials have	zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹
10. Were any sam	ple containers received br	oken?	Yes	No 🗹	# 45
44 -					# of preserved bottles checked
	k match bottle labels? ncies on chain of custody)		Yes 🗹	No □	for pH: (Or >12 unless noted)
-	prrectly identified on Chain	of Custody?	Yes 🗹	No □	Adjusted? ►
13. Is it clear what	analyses were requested?		Yes 🗸	No 🗆	
	g times able to be met? stomer for authorization.)		Yes 🗹	No 🗌	Checked by: <u>DAO 3/2/19</u>
	ng (if applicable)				
	ified of all discrepancies w	ith this order?	Yes 🗌	No 🗆	na 🗹
Person N	Notified:	Da	re: [		
By Whor	m:	Via	: eMail Pl	none  Fax	☐ In Person
Regardin	ng:				
Client Ins	structions:				
16. Additional rem	narks:				
17. Cooler Inform	nation				
Cooler No	Temp ⁰C Condition	Seal Intact   Seal No	Seal Date	Signed By	
1	1.4 Good	Not Present			

	hain.	-of-Cu	ord	Turn-Around Time:	Time:					4	4	HALL ENVIRONMENTAL	5	8	Ž		F	A	
llent:	EA Engin	leering, aci	JIENT EA Engineering, science, and recrinology	ZÎ∽Standard	□ Rush		e -		-	Ž	A	<b>ANALYSIS LABORATORY</b>	S	¥	000	2	E	X	
,	•. •			Project Name:						<b>W</b>	.hall€	www.hallenvironmental.com	nmer	ıtal.co	Ho		!		
lailing Add	ress: 320 Gold	Ave SW Suite	ailing Address: 320 Gold Ave SW Suite 1300 Albuquerque, NM, 87102		Buena Vista Dairy #2	Dairy #2		4901 Hawkins NE	Haw	kins N	Щ	- Albuquerque, NM 87109	nerd	Z Ye	M 87	109			
	-			Project #:				Tel. 505-345-3975	05-3	45-3	975	Еа	506	Fax 505-345-4107	410				
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\ccreditatic	Accreditation:	□ Other		Sampler: $\mathcal{Z}$ On Ice:	: Justin Unsquel	o.					*	•		1.					(M. ac
EDD	EDD (Type)				oerature: 🖺	.8=0.4= 14°C													) <u>()</u>
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No 1903DG		Nitrate/Nitri	Chloride EF	TDS SM 25			•						SəldduB iiA
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 25, 2019

Regina Mullen
EA Engineering
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Dona Ana Dairies Consortium OrderNo.: 1903407

### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/8/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

### Date Reported: 3/25/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-20

Project:Dona Ana Dairies ConsortiumCollection Date: 3/7/2019 12:22:00 PMLab ID:1903407-001Matrix: AQUEOUSReceived Date: 3/8/2019 8:50:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: smb
Chloride	900	50		mg/L	100	3/8/2019 6:09:11 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/8/2019 5:31:57 PM
Nitrogen, Nitrate (As N)	35	1.0	*	mg/L	10	3/8/2019 5:31:57 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: CJS
Total Dissolved Solids	2530	40.0	*D	mg/L	1	3/18/2019 10:30:00 AM
SM 4500 NORG C: TKN						Analyst: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/19/2019 5:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Date Reported: 3/25/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-26

Project:Dona Ana Dairies ConsortiumCollection Date: 3/7/2019 11:53:00 AMLab ID:1903407-002Matrix: AQUEOUSReceived Date: 3/8/2019 8:50:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: smb
Chloride	800	50		mg/L	100	3/8/2019 6:34:00 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/8/2019 6:21:35 PM
Nitrogen, Nitrate (As N)	50	1.0	*	mg/L	10	3/8/2019 6:21:35 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: CJS
Total Dissolved Solids	2670	40.0	*D	mg/L	1	3/18/2019 10:30:00 AM
SM 4500 NORG C: TKN						Analyst: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/19/2019 5:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 3/25/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-22

Project:Dona Ana Dairies ConsortiumCollection Date: 3/7/2019 11:27:00 AMLab ID:1903407-003Matrix: AQUEOUSReceived Date: 3/8/2019 8:50:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: <b>smb</b>
Chloride	670	50		mg/L	100	3/8/2019 7:23:39 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/8/2019 7:11:14 PM
Nitrogen, Nitrate (As N)	26	1.0	*	mg/L	10	3/8/2019 7:11:14 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: CJS
Total Dissolved Solids	2200	40.0	*D	mg/L	1	3/18/2019 10:30:00 AM
SM 4500 NORG C: TKN						Analyst: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/19/2019 5:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Date Reported: 3/25/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-09

Project:Dona Ana Dairies ConsortiumCollection Date: 3/7/2019 11:15:00 AMLab ID:1903407-004Matrix: AQUEOUSReceived Date: 3/8/2019 8:50:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: <b>smb</b>
Chloride	950	50		mg/L	100	3/8/2019 7:48:28 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/8/2019 7:36:03 PM
Nitrogen, Nitrate (As N)	100	10	*	mg/L	100	3/8/2019 7:48:28 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: CJS
Total Dissolved Solids	3290	40.0	*D	mg/L	1	3/18/2019 10:30:00 AM
SM 4500 NORG C: TKN						Analyst: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/19/2019 5:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Date Reported: 3/25/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-21

Project:Dona Ana Dairies ConsortiumCollection Date: 3/7/2019 10:54:00 AMLab ID:1903407-005Matrix: AQUEOUSReceived Date: 3/8/2019 8:50:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: <b>smb</b>
Chloride	860	50		mg/L	100	3/8/2019 8:13:17 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/8/2019 8:00:53 PM
Nitrogen, Nitrate (As N)	80	10	*	mg/L	100	3/8/2019 8:13:17 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: CJS
Total Dissolved Solids	3030	40.0	*D	mg/L	1	3/18/2019 10:30:00 AM
SM 4500 NORG C: TKN						Analyst: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/19/2019 5:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903407** 

25-Mar-19

Client:	EA Engineering

**Project:** Dona Ana Dairies Consortium

Sample ID: MB	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	300.0: Anions	6		
Client ID: PBW	Batch	1D: <b>R5</b>	8228	F	tunNo: 5	8228				
Prep Date:	Analysis D	ate: 3/	8/2019	S	SeqNo: 1	953630	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sample ID: LCS	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	300.0: Anions	5		
Sample ID: LCS Client ID: LCSW	·	ype: LC i ID: R5			tCode: El tunNo: 5		300.0: Anions	5		
,	·	n ID: <b>R5</b>	8228	F		8228	300.0: Anions Units: mg/L	5		
Client ID: LCSW	Batch	n ID: <b>R5</b>	8228 8/2019	F	tunNo: 5	8228		%RPD	RPDLimit	Qual
Client ID: LCSW Prep Date:	Batch Analysis D	n ID: <b>R5</b> vate: <b>3/</b>	8228 8/2019	F	RunNo: <b>5</b> SeqNo: <b>1</b>	8228 953631	Units: mg/L		RPDLimit	Qual
Client ID: LCSW Prep Date: Analyte	Batch Analysis D Result	n ID: <b>R5</b> Pate: <b>3/</b> PQL	<b>8228</b> <b>8/2019</b> SPK value	SPK Ref Val	tunNo: <b>5</b> SeqNo: <b>1</b> %REC	8228 953631 LowLimit	Units: mg/L HighLimit		RPDLimit	Qual
Client ID: LCSW Prep Date: Analyte Chloride	Batch Analysis D Result 4.8	PQL 0.50	8228 8/2019 SPK value 5.000	SPK Ref Val	RunNo: <b>5</b> SeqNo: <b>1</b> %REC 96.6	8228 953631 LowLimit 90	Units: mg/L HighLimit		RPDLimit	Qual

Sample ID: 1903407-001AMS	SampT	ype: <b>MS</b>	5	Tes	tCode: El	PA Method	300.0: Anions	i		
Client ID: DAD-20	Batch	ID: <b>R5</b>	8228	R	tunNo: 5	8228				
Prep Date:	Analysis D	ate: <b>3/</b>	8/2019	S	SeqNo: 19	953670	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	9.0	1.0	10.00	0	89.7	82.4	108			
Nitrogen, Nitrate (As N)	63	1.0	25.00	34.77	112	79.1	116			

Sample ID: 1903407-001AMSE	<b>S</b> ampT	уре: М	SD	Tes	tCode: El	PA Method	300.0: Anions	;		
Client ID: DAD-20	Batch	ID: <b>R5</b>	8228	F	RunNo: <b>5</b>	8228				
Prep Date:	Analysis D	ate: 3/	8/2019	S	SeqNo: 1	953671	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	8.8	1.0	10.00	0	88.4	82.4	108	1.50	20	
Nitrogen, Nitrate (As N)	61	1.0	25.00	34.77	105	79.1	116	2.61	20	

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

C----1- --II N-+ I- D----

Page 6 of 8

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903407** 

25-Mar-19

**Client:** EA Engineering

**Project:** Dona Ana Dairies Consortium

Sample ID: MB-43683 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43683 RunNo: 58425

Prep Date: 3/14/2019 Analysis Date: 3/18/2019 SeqNo: 1960537 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43683 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43683 RunNo: 58425

Prep Date: 3/14/2019 Analysis Date: 3/18/2019 SeqNo: 1960538 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 999 20.0 1000 0 99.9 80 120

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 7 of 8

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903407** 

25-Mar-19

**Client:** EA Engineering

**Project:** Dona Ana Dairies Consortium

Sample ID: MB-43774 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43774 RunNo: 58486

Prep Date: 3/19/2019 Analysis Date: 3/19/2019 SeqNo: 1963233 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43774 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43774 RunNo: 58486

Prep Date: 3/19/2019 Analysis Date: 3/19/2019 SeqNo: 1963234 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 102 80 120

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 8 of 8



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: EA Engineering Alb Work Order Number: 1903407 RcptNo: 1 Received By: Isaiah Ortiz 3/8/2019 8:50:00 AM unas Completed By: Erin Melendrez 3/8/2019 9:36:20 AM IO 3/8/19 Reviewed By: Chain of Custody Yes 🗸 No 🗌 Not Present 1. Is Chain of Custody complete? 2. How was the sample delivered? FedEx Log In No 🗌 3. Was an attempt made to cool the samples? Yes 🗸 NA 🗌 No \_ Were all samples received at a temperature of >0° C to 6.0°C NA 🗌 5. Sample(s) in proper container(s)? No 🗌 Yes 🗸 6. Sufficient sample volume for indicated test(s)? Yes 🗸 7. Are samples (except VOA and ONG) properly preserved? Yes No 🗸 8. Was preservative added to bottles? Yes NA 🔲 9. VOA vials have zero headspace? Yes No No VOA Vials 🗸 No 🗸 10. Were any sample containers received broken? Yes # of preserved bottles checked Yes 🗸 for pH: 11. Does paperwork match bottle labels? No r >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 12. Are matrices correctly identified on Chain of Custody? Yes 13. Is it clear what analyses were requested? ~ No 14. Were all holding times able to be met? No 🗌 Yes 🗸 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? NA 🗸 Yes \_ No Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Temp °C Cooler No Condition Seal Intact Seal No Seal Date Signed By 0.8 Good Yes

	HALL ENVIRONMENTAL ANALYSIS LABORATORY	www.hallenvironmental.com	ns NE - Albuquerque, NM 87109	505-345-3975 Fax 505-345-4107	Analysis						TDS SM 254	*	<u></u>	×									
		#	4901 Hawkins NE	Tel. 505-3		0:0	00.		ове	N 00	TKN SM 450	X	X	X X	メメ	X					ks:		
			4			0 0	300	poq	eM Αα	13 6	Nitrate/Nitrite	×	×	X	,X	×		6	-		Remarks:		
d Time:	rd 🗆 Rush	ne:	Dona Ana Dairies Consortium			nager:	Gina Mullen		Justin Vusque	O	Preservative HEAL No.	100-	200-	-003	H00-	-02					Date Time	Feder sight oxso	Date Time
Turn-Around Time:	Standard	Project Name:		Project #:		Project Manager:			Sampler:	Sample Temperature:	Container Type and #	7	7	Q	2	7		-			Received by:	100	Received by:
Chain-of-Custody Record	EA Engineering, Science, and Technology		Mailing Address: 320 Gold Ave SW Suite 1300 Albuquerque, NM, 87102	-	5-4279	t.com	=	☐ Level 4 (Full Validation)			Sample Request ID	DAN-20	DAD-26	DAD-23	DAB-69	DAD-21						Sond	
of-C	eering, S		f Ave SW Sui		505-715-4279	rmullen			other -		Matrix	3	-			-					Relinquished by:		Relinquished by:
hain-	EA Engin	-	ess: 320 Gold		#:	Fax#:	QA/QC Package:	dard	tation:	(Type)	Time	722	6511	TEII	5111	iosy					Time:	1330	Time:
S	Client:	(2 (4 (5	Mailing Addr		Phone #:	email or Fax#:	QA/QC F	□ Standard	Accreditation:	□ EDD (Type)	Date	1-1-19	_			-8	9				Date:	6	



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 21, 2019

Regina Mullen
EA Engineering
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Dona Ana Dairies Consortium OrderNo.: 1903218

### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 6 sample(s) on 3/6/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Onlist

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/21/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-01

Project:Dona Ana Dairies ConsortiumCollection Date: 3/5/2019 11:28:00 AMLab ID:1903218-001Matrix: AQUEOUSReceived Date: 3/6/2019 9:00:00 AM

Analyses	Result	RL Qual Units			DF	Date Analyzed		
EPA METHOD 300.0: ANIONS						Analyst: smb		
Chloride	350	50		mg/L	100	3/6/2019 6:46:17 PM		
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/6/2019 6:33:27 PM		
Nitrogen, Nitrate (As N)	11	1.0	*	mg/L	10	3/6/2019 6:33:27 PM		
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS		
Total Dissolved Solids	1690	100	*D	mg/L	1	3/12/2019 7:22:00 PM		
SM 4500 NORG C: TKN						Analyst: <b>OG</b>		
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/15/2019 12:00:00 PM		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 3/21/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-02

Project:Dona Ana Dairies ConsortiumCollection Date: 3/5/2019 11:50:00 AMLab ID:1903218-002Matrix: AQUEOUSReceived Date: 3/6/2019 9:00:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: <b>smb</b>
Chloride	290	50	mg/L	100	3/6/2019 7:12:01 PM
Nitrogen, Nitrite (As N)	ND	1.0	mg/L	10	3/6/2019 6:59:10 PM
Nitrogen, Nitrate (As N)	7.6	1.0	mg/L	10	3/6/2019 6:59:10 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS					Analyst: KS
Total Dissolved Solids	1350	40.0 *D	mg/L	1	3/12/2019 7:22:00 PM
SM 4500 NORG C: TKN					Analyst: <b>og</b>
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1	3/15/2019 12:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Lab Order **1903218**Date Reported: **3/21/2019**

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering

Client Sample ID: DAD-03

Project: Dona Ana Dairies Consortium Collection Date: 3/5/2019 12:11:00 PM
Lab ID: 1903218-003 Matrix: AQUEOUS Received Date: 3/6/2019 9:00:00 AM

Analyses	Result	RL Qua	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: <b>smb</b>
Chloride	330	50	mg/L	100	3/6/2019 8:29:15 PM
Nitrogen, Nitrite (As N)	ND	1.0	mg/L	10	3/6/2019 8:16:24 PM
Nitrogen, Nitrate (As N)	ND	1.0	mg/L	10	3/6/2019 8:16:24 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS					Analyst: <b>KS</b>
Total Dissolved Solids	2180	200 *D	mg/L	1	3/12/2019 7:22:00 PM
SM 4500 NORG C: TKN					Analyst: <b>og</b>
Nitrogen, Kjeldahl, Total	3.1	2.0 D	mg/L	1	3/15/2019 12:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Lab Order **1903218**Date Reported: **3/21/2019**

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-04

Project:Dona Ana Dairies ConsortiumCollection Date: 3/5/2019 12:32:00 PMLab ID:1903218-004Matrix: AQUEOUSReceived Date: 3/6/2019 9:00:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: <b>smb</b>
Chloride	340	50	mg/L	100	3/6/2019 8:54:58 PM
Nitrogen, Nitrite (As N)	ND	1.0	mg/L	10	3/6/2019 8:42:07 PM
Nitrogen, Nitrate (As N)	ND	1.0	mg/L	10	3/6/2019 8:42:07 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS					Analyst: KS
Total Dissolved Solids	1820	40.0 *D	mg/L	1	3/12/2019 7:22:00 PM
SM 4500 NORG C: TKN					Analyst: <b>oG</b>
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1	3/15/2019 12:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Lab Order **1903218**Date Reported: **3/21/2019**

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-05

Project:Dona Ana Dairies ConsortiumCollection Date: 3/5/2019 1:08:00 PMLab ID:1903218-005Matrix: AQUEOUSReceived Date: 3/6/2019 9:00:00 AM

Analyses	Result	RL Qual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS				Analyst: <b>smb</b>
Chloride	370	50 mg/L	100	3/6/2019 9:20:42 PM
Nitrogen, Nitrite (As N)	ND	1.0 mg/L	10	3/6/2019 9:07:50 PM
Nitrogen, Nitrate (As N)	2.0	1.0 mg/L	10	3/6/2019 9:07:50 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS				Analyst: KS
Total Dissolved Solids	2260	100 *D mg/L	1	3/12/2019 7:22:00 PM
SM 4500 NORG C: TKN				Analyst: <b>oG</b>
Nitrogen, Kjeldahl, Total	1.3	1.0 mg/L	1	3/15/2019 12:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 3/21/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-08

Project:Dona Ana Dairies ConsortiumCollection Date: 3/5/2019 1:25:00 PMLab ID:1903218-006Matrix: AQUEOUSReceived Date: 3/6/2019 9:00:00 AM

Analyses	Result	RL (	)ual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: smb
Chloride	1900	50		mg/L	100	3/6/2019 9:46:24 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/6/2019 9:33:33 PM
Nitrogen, Nitrate (As N)	42	1.0	*	mg/L	10	3/6/2019 9:33:33 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	5460	100	*D	mg/L	1	3/12/2019 7:22:00 PM
SM 4500 NORG C: TKN						Analyst: <b>oG</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/15/2019 12:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903218** 

21-Mar-19

**Client:** EA Engineering

**Project:** Dona Ana Dairies Consortium

Sample ID: MB SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: PBW Batch ID: A58183 RunNo: 58183 Prep Date: Analysis Date: 3/6/2019 SeqNo: 1951348 Units: mg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride ND 0.50 Nitrogen, Nitrite (As N) ND 0.10 Nitrogen, Nitrate (As N) ND 0.10

Sample ID: LCS TestCode: EPA Method 300.0: Anions SampType: LCS Client ID: LCSW Batch ID: A58183 RunNo: 58183 Prep Date: Analysis Date: 3/6/2019 SeqNo: 1951349 Units: mg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0 95.0 Chloride 4.7 0.50 5.000 90 110 Nitrogen, Nitrite (As N) 0.95 0.10 1.000 0 95.0 90 110 Nitrogen, Nitrate (As N) 2.5 0.10 2.500 0 101 90 110

Sample ID: MB SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: PBW Batch ID: **R58183** RunNo: 58183 Prep Date: Analysis Date: 3/6/2019 SeqNo: 1951364 Units: mg/L Analyte SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Result **PQL** HighLimit Qual Chloride ND 0.50 Nitrogen, Nitrite (As N) ND 0.10 Nitrogen, Nitrate (As N) ND 0.10

Sample ID: LCS TestCode: EPA Method 300.0: Anions SampType: LCS Client ID: LCSW Batch ID: **R58183** RunNo: 58183 Prep Date: Analysis Date: 3/6/2019 SeqNo: 1951365 Units: mg/L Analyte SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Result **PQL** Qual Chloride 0.50 5.000 90 4.7 93.7 Nitrogen, Nitrite (As N) 0.95 0 0.10 1.000 94.7 90 110 Nitrogen, Nitrate (As N) 2.5 0.10 2.500 0 99.3 90 110

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 7 of 8

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903218** 

21-Mar-19

**Client:** EA Engineering

**Project:** Dona Ana Dairies Consortium

Sample ID: MB-43609 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43609 RunNo: 58309

Prep Date: 3/11/2019 Analysis Date: 3/12/2019 SeqNo: 1955585 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43609 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43609 RunNo: 58309

Prep Date: 3/11/2019 Analysis Date: 3/12/2019 SeqNo: 1955586 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 8 of 8



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hollenvironmental.com

## Sample Log-In Check List

Clien	nt Name:	EA Enginee	ring Alb	Work	Order Numbe	r. 190	3218			RcptNo: 1
Rece	ived By:	Isaiah Orti	iz	3/6/2019	9 9:00:00 AM			#	_0	4
Comp	pleted By:	Isaiah Orti	iz	3/6/2019	9 10:43:45 AM	M		I	-0	4
Revie	wed By:	To		3/6/1	9					
ĺ	B: V	17 311	0/19	, ,						
	n of Cus									
82 1916		ustody compl	ete?			Yes	~	No		Not Present
2. Ho	w was the	sample delive	ered?			Fedi	ĒΧ			
Log	<u>In</u>									
_	_	pt made to c	ool the samp	les?		Yes	<b>V</b>	No		NA 🗆
4. We	ere all samp	oles received	at a tempera	ture of >0° C t	to 6.0°C	Yes	V	Na		NA 🗆
5. Sa	mple(s) in	proper contai	ner(s)?			Yes	V	No		
6. Suf	fficient sam	ple volume fo	or indicated te	est(s)?		Yes	~	No		
7. Are	samples (	except VOA a	and ONG) pro	perly preserve	d?	Yes	V	No		
-		tive added to				Yes		No	V	NA 🗆
9. vo	A vials hav	e zero heads	pace?			Yes		No		No VOA Vials 🗹
10. We	ere any san	nple containe	rs received b	roken?		Yes		Na	V	# of preserved
		ork match bot ancies on cha		,		Yes	~	No		for pH: (2 or >12 unless noted)
				n of Custody?		Yes	V	No		Adjusted? NO
		analyses we				Yes	V	No		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
14. We	ere all holdi	ng times able	to be met?			Yes	<b>v</b>	No		Checked by: V VZ 3/6/19
		ing (if app								
	and the second	real Way - 100	energy Har	with this order?		Yes		No		NA 🗹
	Person	Notified:			Date:				-	
	By Who	m: ]			Via:	□ eM	ail [	Phone [	Fax	In Person
	Regard									
	Client Ir	nstructions:							*****	1011-1
16. Ad	dditional re	marks:								
17. <u>c</u>	ooler Infor									
65	Ccoler No	- 1	Condition	Seal Intact	Seal No	Seal D	ate	Signed	Ву	
1	1	0.1	Good	Yes						

Froject Name:   Project Name	Chail	n-of-Cu	Chain-of-Custody Record	Turn-Around Time:	Time:				HALL ENVIRONMENTAL	
Project Name:   Project Name;   Project Name		gineering, Sc.	ience, and Technology	Standard	□ Rush			A	ALYSIS LABORATOR	-
10   10   10   10   10   10   10   10				Project Name				/www	hallenvironmental.com	8
Tels. 505-345-3975   Fax 506-345-3407	dress 320 (	Sold Ave SW Suite	3 1300 Albuquerque, NM, 87102		Dona Ana Da	airies Consortium	4901 H	awkins N	E - Albuquerque, NM 87109	
Container   Con				Project #:			Tel. 50	5-345-39	75 Fax 505-345-4107	
Contained   Cont	#	505-715	-4279						Analysis Request	
Contained by   Cont	or Fax#		Deaest.com	Project Mana	ger.		0.00			
Time   Matrix   Sample   Tought   Nuclear   Compared	) Packag	<u>:-</u>	☐ Level 4 (Full Validation)		Gina Mullen					
Time   Matrix   Sample Request   D   Time   Matrix   Sample Request   D   Time   Matrix   Sample Request   D   Time   Time   Matrix   Sample Request   D   Time   Time   Time   Received by:   Time   Time   Time   Received by:   Time	ditation.		1	Sampler		Squee		- X (A. )		(N -
Time   Matrix   Sample Request   D   Container   Preservative   HEAL No.   GEST   S   ZEST   G   GEST   S   ZEST   G   GEST	D (Type			Sample Tem	0	5,10		****		U //
[120   DAD-0  2	Date Time	-	Sample Request ID	Container Type and #	Preservative Type	HEAL No.		and the second of the second		2elddu8 3i∆
	3-5-19 1128	-	DAD-0/	7		189-				$\vdash$
121    DAD-03   2   -003   × × ×     1232		-	DAD-02	7		-002	X	- 1		
1332         DAB-04         2         -O3         ×××           1345         DAB-05         2         -O3         ×××           1325         V         DAB-05         2         -O3         V         ×××           1325         V         DAB-05         2         -O3         V         ×××         ×××           1325         V         DAB-05         2         -O3         V         ×××         ×××           1326         V         DAB-05         2         -O3         V         ×××         ×××           1327         V         Date Time         Remarks:         Remarks:         Image: Time         Remarks:	1211	_	DAD-03	2		-	_			-
1325   DAD-05  2 - OO 5 ×××   A DAD-05  2 - OO 6 ×××   A X X X X X X X X X X X X X X X X X X	/232	- 1	40- QW	2		-84		0.0		$\dashv$
1325   ***	1302	pon	DM-08-	2		_	-			-4
Time:         Relinquished by         Received by:         Date Time           Time:         Relinquished by:         Received by:         Date Time	/325		DAD-08	2		982-	_	web.		-
Time: Reilinquished by.  Received by:  Recei										+
Time: Relinquished by Received by:  Received					-					$\vdash$
Time: Relinquished by:    Fellowed by:   Fellowed by:   Fellowed by:   Fellowed by:   Pellowed by:   Date Time   Date Time   Perceived by:   Date Time   Date   Date Time   Date   Date Time   Date   D										
Time: Relinquished by.  Received by:  Received by:  Received by:  Received by:  Date Time  Time: Relinquished by:  Date Time							-			$\vdash$
1630 Frodex 3-6-19 0900 Time: Reinquished by: Received by: Date Time	Time:	Reinquish	ed by:	Received by:		100	Remarks:			7.3
Reinquished by: Date	_	77.0	Land	100	Frolex					
	Time:	Reinquist	led by:	Received by:						

f necessary, samples submitted to Hall Environmental may be subcontracted to other accredited aboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 25, 2019

Regina Mullen
EA Engineering
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Dona Ana Dairies Consortium OrderNo.: 1903407

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/8/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

### Date Reported: 3/25/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-20

Project:Dona Ana Dairies ConsortiumCollection Date: 3/7/2019 12:22:00 PMLab ID:1903407-001Matrix: AQUEOUSReceived Date: 3/8/2019 8:50:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: smb
Chloride	900	50		mg/L	100	3/8/2019 6:09:11 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/8/2019 5:31:57 PM
Nitrogen, Nitrate (As N)	35	1.0	*	mg/L	10	3/8/2019 5:31:57 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: CJS
Total Dissolved Solids	2530	40.0	*D	mg/L	1	3/18/2019 10:30:00 AM
SM 4500 NORG C: TKN						Analyst: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/19/2019 5:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Date Reported: 3/25/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-26

Project:Dona Ana Dairies ConsortiumCollection Date: 3/7/2019 11:53:00 AMLab ID:1903407-002Matrix: AQUEOUSReceived Date: 3/8/2019 8:50:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: smb
Chloride	800	50		mg/L	100	3/8/2019 6:34:00 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/8/2019 6:21:35 PM
Nitrogen, Nitrate (As N)	50	1.0	*	mg/L	10	3/8/2019 6:21:35 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: CJS
Total Dissolved Solids	2670	40.0	*D	mg/L	1	3/18/2019 10:30:00 AM
SM 4500 NORG C: TKN						Analyst: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/19/2019 5:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 3/25/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-22

Project:Dona Ana Dairies ConsortiumCollection Date: 3/7/2019 11:27:00 AMLab ID:1903407-003Matrix: AQUEOUSReceived Date: 3/8/2019 8:50:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: <b>smb</b>
Chloride	670	50		mg/L	100	3/8/2019 7:23:39 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/8/2019 7:11:14 PM
Nitrogen, Nitrate (As N)	26	1.0	*	mg/L	10	3/8/2019 7:11:14 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: CJS
Total Dissolved Solids	2200	40.0	*D	mg/L	1	3/18/2019 10:30:00 AM
SM 4500 NORG C: TKN						Analyst: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/19/2019 5:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Date Reported: 3/25/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-09

Project:Dona Ana Dairies ConsortiumCollection Date: 3/7/2019 11:15:00 AMLab ID:1903407-004Matrix: AQUEOUSReceived Date: 3/8/2019 8:50:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: <b>smb</b>
Chloride	950	50		mg/L	100	3/8/2019 7:48:28 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/8/2019 7:36:03 PM
Nitrogen, Nitrate (As N)	100	10	*	mg/L	100	3/8/2019 7:48:28 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: CJS
Total Dissolved Solids	3290	40.0	*D	mg/L	1	3/18/2019 10:30:00 AM
SM 4500 NORG C: TKN						Analyst: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/19/2019 5:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Date Reported: 3/25/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-21

Project:Dona Ana Dairies ConsortiumCollection Date: 3/7/2019 10:54:00 AMLab ID:1903407-005Matrix: AQUEOUSReceived Date: 3/8/2019 8:50:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: <b>smb</b>
Chloride	860	50		mg/L	100	3/8/2019 8:13:17 PM
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/8/2019 8:00:53 PM
Nitrogen, Nitrate (As N)	80	10	*	mg/L	100	3/8/2019 8:13:17 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: CJS
Total Dissolved Solids	3030	40.0	*D	mg/L	1	3/18/2019 10:30:00 AM
SM 4500 NORG C: TKN						Analyst: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/19/2019 5:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903407** 

25-Mar-19

Client:	EA Engineering

**Project:** Dona Ana Dairies Consortium

Sample ID: MB	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	300.0: Anions	6		
Client ID: PBW	Batch	1D: <b>R5</b>	8228	F	tunNo: 5	8228				
Prep Date:	Analysis D	ate: 3/	8/2019	S	SeqNo: 1	953630	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sample ID: LCS	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	300.0: Anions	5		
Sample ID: LCS Client ID: LCSW	·	ype: LC i ID: R5			tCode: El tunNo: 5		300.0: Anions	5		
,	·	n ID: <b>R5</b>	8228	F		8228	300.0: Anions Units: mg/L	5		
Client ID: LCSW	Batch	n ID: <b>R5</b>	8228 8/2019	F	tunNo: 5	8228		%RPD	RPDLimit	Qual
Client ID: LCSW Prep Date:	Batch Analysis D	n ID: <b>R5</b> vate: <b>3/</b>	8228 8/2019	F	RunNo: <b>5</b> SeqNo: <b>1</b>	8228 953631	Units: mg/L		RPDLimit	Qual
Client ID: LCSW Prep Date: Analyte	Batch Analysis D Result	n ID: <b>R5</b> Pate: <b>3/</b> PQL	<b>8228</b> <b>8/2019</b> SPK value	SPK Ref Val	tunNo: <b>5</b> SeqNo: <b>1</b> %REC	8228 953631 LowLimit	Units: mg/L HighLimit		RPDLimit	Qual
Client ID: LCSW Prep Date: Analyte Chloride	Batch Analysis D Result 4.8	PQL 0.50	8228 8/2019 SPK value 5.000	SPK Ref Val	RunNo: <b>5</b> SeqNo: <b>1</b> %REC 96.6	8228 953631 LowLimit 90	Units: mg/L HighLimit		RPDLimit	Qual

Sample ID: 1903407-001AMS	SampT	/pe: <b>MS</b>	5	Tes	tCode: El	PA Method	300.0: Anions	;		
Client ID: DAD-20	Batch	ID: <b>R5</b>	8228	R	RunNo: 5	8228				
Prep Date:	Analysis Da	ate: <b>3/</b>	8/2019	S	SeqNo: 19	953670	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	9.0	1.0	10.00	0	89.7	82.4	108			
Nitrogen, Nitrate (As N)	63	1.0	25.00	34.77	112	79.1	116			

Sample ID: 1903407-001AMSE	<b>S</b> ampT	ype: <b>MS</b>	SD	Tes	tCode: El	PA Method	300.0: Anions	;		
Client ID: DAD-20	Batch	ID: <b>R5</b>	8228	F	RunNo: 5	8228				
Prep Date:	Analysis D	ate: 3/	8/2019	S	SeqNo: 1	953671	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	8.8	1.0	10.00	0	88.4	82.4	108	1.50	20	
Nitrogen, Nitrate (As N)	61	1.0	25.00	34.77	105	79.1	116	2.61	20	

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

C----1- --II N-+ I- D----

Page 6 of 8

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903407** 

25-Mar-19

**Client:** EA Engineering

**Project:** Dona Ana Dairies Consortium

Sample ID: MB-43683 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: **PBW** Batch ID: **43683** RunNo: **58425** 

Prep Date: 3/14/2019 Analysis Date: 3/18/2019 SeqNo: 1960537 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43683 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43683 RunNo: 58425

Prep Date: 3/14/2019 Analysis Date: 3/18/2019 SeqNo: 1960538 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 999 20.0 1000 0 99.9 80 120

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 7 of 8

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903407** 

25-Mar-19

**Client:** EA Engineering

**Project:** Dona Ana Dairies Consortium

Sample ID: MB-43774 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43774 RunNo: 58486

Prep Date: 3/19/2019 Analysis Date: 3/19/2019 SeqNo: 1963233 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43774 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43774 RunNo: 58486

Prep Date: 3/19/2019 Analysis Date: 3/19/2019 SeqNo: 1963234 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 102 80 120

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 8 of 8



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

### Sample Log-In Check List

Client Name: EA Engineering Alb Work Order Number: 1903407 RcptNo: 1 Received By: Isaiah Ortiz 3/8/2019 8:50:00 AM unas Completed By: Erin Melendrez 3/8/2019 9:36:20 AM IO 3/8/19 Reviewed By: Chain of Custody Yes 🗸 No 🗌 Not Present 1. Is Chain of Custody complete? 2. How was the sample delivered? FedEx Log In No 🗌 3. Was an attempt made to cool the samples? Yes 🗸 NA 🗌 No \_ Were all samples received at a temperature of >0° C to 6.0°C NA 🗌 5. Sample(s) in proper container(s)? No 🗌 Yes 🗸 6. Sufficient sample volume for indicated test(s)? Yes 🗸 7. Are samples (except VOA and ONG) properly preserved? Yes No 🗸 8. Was preservative added to bottles? Yes NA 🔲 9. VOA vials have zero headspace? Yes No No VOA Vials 🗸 No 🗸 10. Were any sample containers received broken? Yes # of preserved bottles checked Yes 🗸 for pH: 11. Does paperwork match bottle labels? No r >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 12. Are matrices correctly identified on Chain of Custody? Yes 13. Is it clear what analyses were requested? ~ No 14. Were all holding times able to be met? No 🗌 Yes 🗸 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? NA 🗸 Yes \_ No Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Temp °C Cooler No Condition Seal Intact Seal No Seal Date Signed By 0.8 Good Yes

THE COLD IN THE PERSON OF THE	ANALYSIS LABORATORY	www.hallenvironmental.com	ns NE - Albuquerque, NM 87109	505-345-3975 Fax 505-345-4107	Analysis						TDS SM 254	*	\\	×										
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d Time:	rd 🗆 Rush	ne:	Dona Ana Dairies Consortium			nager:	Gina Mullen		Justin Vasque	O	Preservative HEAL No.	- 1001	200-	-003	H00-	-02						Date Time	Feder sight oxso	Date Time
Turn-Around Time:	Standard	Project Name:		Project #:		Project Manager:			Sampler:	Sample Temperature:	Container Type and #	7	7	Q	2	7		-				Received by:	100	Received by:
Chain-of-Custody Record	EA Engineering, Science, and Technology		Mailing Address: 320 Gold Ave SW Suite 1300 Albuquerque, NM, 87102	•	5-4279	t.com	=	☐ Level 4 (Full Validation)			Sample Request ID	DAB-20	DAD-26	DAD-23	DAB-69	DAD-21							Jus	
of-C	eering, S		f Ave SW Sui		505-715-4279	rmullen			Other		Matrix	3	-			-						Relinquished by:		Relinquished by:
hain.	EA Engin	-	ess: 320 Gold		**	Fax#:	QA/QC Package:	dard	tation:	(Type)	Time	722	6511	LEII	5111	hsol				1		Time:	1330	Time:
S	Client:	ia N	Mailing Addr		Phone #:	email or Fax#:	QA/QC F	□ Standard	Accreditation:	□ EDD (Type)	Date	1-1-19	_			-8	9					Date:	6	



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 26, 2019

Regina Mullen
EA Engineering
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Dona Ana Dairies Consortium OrderNo.: 1903460

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/9/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/26/2019

CLIENT: EA Engineering Client Sample ID: DAD-07

Project:Dona Ana Dairies ConsortiumCollection Date: 3/8/2019 12:26:00 PMLab ID:1903460-001Matrix: AQUEOUSReceived Date: 3/9/2019 10:50:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: <b>smb</b>
Chloride	530	50		mg/L	100	3/11/2019 7:20:49 PM
Nitrate+Nitrite as N	12	1.0	*	mg/L	5	3/11/2019 10:59:35 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: CJS
Total Dissolved Solids	2050	20.0	*	mg/L	1	3/18/2019 9:44:00 AM
SM 4500 NORG C: TKN						Analyst: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/21/2019 3:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/26/2019

CLIENT: EA Engineering Client Sample ID: DAD-13

Project:Dona Ana Dairies ConsortiumCollection Date: 3/8/2019 9:06:00 AMLab ID:1903460-002Matrix: AQUEOUSReceived Date: 3/9/2019 10:50:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: <b>smb</b>
Chloride	570	50	mg/L	100	3/11/2019 7:46:32 PM
Nitrate+Nitrite as N	10	1.0	mg/L	5	3/11/2019 11:12:27 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS					Analyst: CJS
Total Dissolved Solids	2000	40.0 *D	mg/L	1	3/18/2019 9:44:00 AM
SM 4500 NORG C: TKN					Analyst: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1	3/21/2019 3:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 3/26/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-14

Project:Dona Ana Dairies ConsortiumCollection Date: 3/8/2019 9:44:00 AMLab ID:1903460-003Matrix: AQUEOUSReceived Date: 3/9/2019 10:50:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: <b>smb</b>
Chloride	830	50		mg/L	100	3/11/2019 8:38:05 PM
Nitrate+Nitrite as N	22	1.0	*	mg/L	5	3/11/2019 11:25:18 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: CJS
Total Dissolved Solids	3310	40.0	*D	mg/L	1	3/18/2019 9:44:00 AM
SM 4500 NORG C: TKN						Analyst: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/21/2019 3:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Date Reported: 3/26/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-15

Project:Dona Ana Dairies ConsortiumCollection Date: 3/8/2019 10:57:00 AMLab ID:1903460-004Matrix: AQUEOUSReceived Date: 3/9/2019 10:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: <b>smb</b>
Chloride	540	50	mg/L	100	3/11/2019 9:03:50 PM
Nitrate+Nitrite as N	7.5	1.0	mg/L	5	3/11/2019 11:38:10 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS					Analyst: CJS
Total Dissolved Solids	1970	20.0	* mg/L	1	3/18/2019 9:44:00 AM
SM 4500 NORG C: TKN					Analyst: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1	3/21/2019 3:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/26/2019

CLIENT: EA Engineering Client Sample ID: DAD-16

Project:Dona Ana Dairies ConsortiumCollection Date: 3/8/2019 11:19:00 AMLab ID:1903460-005Matrix: AQUEOUSReceived Date: 3/9/2019 10:50:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: <b>smb</b>
Chloride	450	50	mg/L	100	3/11/2019 9:29:33 PM
Nitrate+Nitrite as N	ND	1.0	mg/L	5	3/11/2019 11:51:01 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS					Analyst: CJS
Total Dissolved Solids	1990	40.0	*D mg/L	1	3/18/2019 9:44:00 AM
SM 4500 NORG C: TKN					Analyst: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1	3/21/2019 3:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/26/2019

CLIENT: EA Engineering Client Sample ID: DAD-17

Project:Dona Ana Dairies ConsortiumCollection Date: 3/8/2019 11:58:00 AMLab ID:1903460-006Matrix: AQUEOUSReceived Date: 3/9/2019 10:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: <b>smb</b>
Chloride	89	5.0	mg/L	10	3/11/2019 9:42:25 PM
Nitrate+Nitrite as N	2.4	1.0	mg/L	5	3/12/2019 12:03:53 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS					Analyst: CJS
Total Dissolved Solids	638	40.0 *	D mg/L	1	3/18/2019 9:44:00 AM
SM 4500 NORG C: TKN					Analyst: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1	3/21/2019 3:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/26/2019

CLIENT: EA Engineering Client Sample ID: DAD-23

Project:Dona Ana Dairies ConsortiumCollection Date: 3/8/2019 10:11:00 AMLab ID:1903460-007Matrix: AQUEOUSReceived Date: 3/9/2019 10:50:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: smb
Chloride	540	50		mg/L	100	3/11/2019 10:21:00 PM
Nitrate+Nitrite as N	17	1.0	*	mg/L	5	3/12/2019 12:16:44 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: CJS
Total Dissolved Solids	2260	100	*D	mg/L	1	3/18/2019 9:44:00 AM
SM 4500 NORG C: TKN						Analyst: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/21/2019 3:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903460** 

26-Mar-19

**Client:** EA Engineering

**Project:** Dona Ana Dairies Consortium

Sample ID: MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: A58285 RunNo: 58285

Prep Date: Analysis Date: 3/11/2019 SeqNo: 1954986 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Chloride
 ND
 0.50

 Nitrate+Nitrite as N
 ND
 0.20

Nitrate+Nitrite as N

Sample ID: LCS SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: A58285 RunNo: 58285

0.20

3.5

Prep Date: Analysis Date: 3/11/2019 SeqNo: 1954987 Units: mg/L

3.500

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 90 Chloride 4.8 0.50 5.000 0 96.2 110

0

99.9

90

110

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 8 of 10

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903460** 

26-Mar-19

**Client:** EA Engineering

**Project:** Dona Ana Dairies Consortium

Sample ID: MB-43695 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43695 RunNo: 58418

Prep Date: 3/14/2019 Analysis Date: 3/18/2019 SeqNo: 1960343 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43695 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43695 RunNo: 58418

Prep Date: 3/14/2019 Analysis Date: 3/18/2019 SeqNo: 1960344 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 993 20.0 1000 0 99.3 80 120

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 9 of 10

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903460** 

26-Mar-19

**Client:** EA Engineering

**Project:** Dona Ana Dairies Consortium

Sample ID: MB-43805 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43805 RunNo: 58564

Prep Date: 3/20/2019 Analysis Date: 3/21/2019 SeqNo: 1966420 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43805 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43805 RunNo: 58564

Prep Date: 3/20/2019 Analysis Date: 3/21/2019 SeqNo: 1966421 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 101 80 120

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 10 of 10

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

### Sample Log-In Check List

Client Name: EA Engineering Alb Work Order Number: 1903460 RcptNo: 1 an Ilma Lad Basa Received By: **Anne Thorne** 3/9/2019 10:50:00 AM Completed By: Leah Baca 3/11/2019 8:11:33 AM Reviewed By: DAD 3/11/19 Labeled by Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 No 🗌 NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗸 NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 No 🗌 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No 8. Was preservative added to bottles? Yes No 🗸 NA 🗌 9. VOA vials have zero headspace? No 🗌 Yes 🗌 No VOA Vials Yes 🗀 10. Were any sample containers received broken? No V # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 1.0 Good Yes

	Science and lechnology	•		
	EA Englieering, Science, and Technology	☐ Standard ☐ Rush	nsh	ANALYSIS LABORATORY
	āl .	Project Name:	10 T	www.hallenvironmental.com
320 Gold Ave SM	Mailing Address: 320 Gold Ave SW Suite 1300 Albuquerque, NM, 87102	Dona An	Dona Ana Dairies Consortium	4901 Hawkins NE - Albuquerque, NM 87109
		Project #:		
-202-	505-715-4279			ına
email or Fax#: rmul	rmullen@eaest.com	Project Manager:		0.0
QA/QC Package:		Gina Mullen	len	08 P
□ Standard	☐ Level 4 (Full Validation)			Э
Accreditation:	ther	Sampler: Justin On Ice: \Z'Yes	Ksycer Do	10RG 0.00
□ EDD (Type)		Sample Temperature:	7001	1 00 E A
Time Matrix	rrix Sample Request ID	Container Preservative Type and # Type	ive HEAL No. 1902460	Nitrate/Nitrit
(226 W	DAD-07	d	000-	× × × × × × × × × × × × × × × × × × ×
906	DAD-13	7	-007.	XXX
hhb	DAD-CY	7	-003	XXX
1057	DAD-IS	2	700Y	XXXX
1119	DAD-16	2	-005	XXXX
1158	Deort	2	900-	XXXX
1011	DAD-23	7	-007	XXXX
•				
Time: Reling	Relinquished by: P-B	Received by:	Date Time 7 (35)	Remarks:
Time: Reling	Relinquished by:	Received by:	Date Time	



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 26, 2019

Regina Mullen
EA Engineering
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Dona Ana Dairies Consortium OrderNo.: 1903515

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/12/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

# Lab Order **1903515**Date Reported: **3/26/2019**

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-10

Project:Dona Ana Dairies ConsortiumCollection Date: 3/11/2019 12:39:00 PMLab ID:1903515-001Matrix: AQUEOUSReceived Date: 3/12/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: smb
Chloride	380	50		mg/L	100	3/12/2019 2:10:15 PM	R58326
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/12/2019 1:57:22 PM	R58326
Nitrogen, Nitrate (As N)	2.5	1.0		mg/L	10	3/12/2019 1:57:22 PM	R58326
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	1280	100	*D	mg/L	1	3/19/2019 2:46:00 PM	43716
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/22/2019 4:00:00 PM	43827

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 10
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Lab Order 1903515

Date Reported: 3/26/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-11

Project:Dona Ana Dairies ConsortiumCollection Date: 3/11/2019 12:11:00 PMLab ID:1903515-002Matrix: AQUEOUSReceived Date: 3/12/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	670	50		mg/L	100	3/12/2019 3:01:42 PM	R58326
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/12/2019 2:48:50 PM	R58326
Nitrogen, Nitrate (As N)	13	1.0	*	mg/L	10	3/12/2019 2:48:50 PM	R58326
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	2740	20.0	*	mg/L	1	3/19/2019 2:46:00 PM	43716
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/22/2019 4:00:00 PM	43827

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 10
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

#### Lab Order **1903515**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/26/2019

**CLIENT:** EA Engineering Client Sample ID: DAD-12

Project:Dona Ana Dairies ConsortiumCollection Date: 3/11/2019 11:29:00 AMLab ID:1903515-003Matrix: AQUEOUSReceived Date: 3/12/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	1100	50		mg/L	100	3/12/2019 6:27:31 PM	R58326
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/12/2019 6:14:39 PM	R58326
Nitrogen, Nitrate (As N)	18	1.0	*	mg/L	10	3/12/2019 6:14:39 PM	R58326
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	3630	20.0	*	mg/L	1	3/19/2019 2:46:00 PM	43716
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/22/2019 4:00:00 PM	43827

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 10
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Lab Order **1903515**Date Reported: **3/26/2019**

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-18

Project:Dona Ana Dairies ConsortiumCollection Date: 3/11/2019 9:13:00 AMLab ID:1903515-004Matrix: AQUEOUSReceived Date: 3/12/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	620	50		mg/L	100	3/12/2019 3:53:09 PM	R58326
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/12/2019 3:40:17 PM	R58326
Nitrogen, Nitrate (As N)	9.4	1.0		mg/L	10	3/12/2019 3:40:17 PM	R58326
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	2600	20.0	*	mg/L	1	3/19/2019 2:46:00 PM	43716
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/22/2019 4:00:00 PM	43827

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 10
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Lab Order **1903515**

Date Reported: 3/26/2019

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering Client Sample ID: DAD-19

Project:Dona Ana Dairies ConsortiumCollection Date: 3/11/2019 10:28:00 AMLab ID:1903515-005Matrix: AQUEOUSReceived Date: 3/12/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: smb
Chloride	970	50		mg/L	100	3/12/2019 4:44:36 PM	R58326
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/12/2019 4:06:01 PM	R58326
Nitrogen, Nitrate (As N)	34	1.0	*	mg/L	10	3/12/2019 4:06:01 PM	R58326
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	2920	20.0	*	mg/L	1	3/19/2019 2:46:00 PM	43716
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/22/2019 4:00:00 PM	43827

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 10
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	2	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Lab Order **1903515**Date Reported: **3/26/2019**

Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering

Client Sample ID: DAD-24

Project:Dona Ana Dairies ConsortiumCollection Date: 3/11/2019 11:02:00 AMLab ID:1903515-006Matrix: AQUEOUSReceived Date: 3/12/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	940	50		mg/L	100	3/12/2019 5:36:03 PM	R58326
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/12/2019 5:23:11 PM	R58326
Nitrogen, Nitrate (As N)	6.0	1.0		mg/L	10	3/12/2019 5:23:11 PM	R58326
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	2490	20.0	*	mg/L	1	3/19/2019 2:46:00 PM	43716
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/22/2019 4:00:00 PM	43827

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 10
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Lab Order **1903515**Date Reported: **3/26/2019**

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: DAD-25

Project:Dona Ana Dairies ConsortiumCollection Date: 3/11/2019 9:43:00 AMLab ID:1903515-007Matrix: AQUEOUSReceived Date: 3/12/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	560	50		mg/L	100	3/12/2019 6:01:48 PM	R58326
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/12/2019 5:48:56 PM	R58326
Nitrogen, Nitrate (As N)	4.8	1.0		mg/L	10	3/12/2019 5:48:56 PM	R58326
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	1570	40.0	*D	mg/L	1	3/19/2019 2:46:00 PM	43716
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/22/2019 4:00:00 PM	43827

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 10
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

ND

ND

ND

0.50

0.10

0.10

WO#: **1903515** 

26-Mar-19

**Client:** EA Engineering

**Project:** Dona Ana Dairies Consortium

Sample ID 1903515-005AMS	SampT	ype: MS	e: MS TestCode: EPA Method 300.0: Anions							
Client ID: DAD-19	Batch	1D: <b>R5</b>	8326	F	RunNo: <b>5</b>	8326				
Prep Date:	Analysis D	ate: 3/	12/2019	9	SeqNo: 1	956675	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	10	1.0	10.00	0	104	82.4	108			
Nitrogen, Nitrate (As N)	62	1.0	25.00	34.22	112	79.1	116			
Sample ID 1903515-005AMS	<b>D</b> SampT	уре: <b>М</b> \$	SD	Tes	tCode: E	PA Method	300.0: Anions	;		
Client ID: DAD-19	Batch	1D: <b>R5</b>	8326	F	RunNo: 5	8326				
Prep Date:	Analysis D	ate: 3/	12/2019	9	SeqNo: 1	956676	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	10	1.0	10.00	0	105	82.4	108	0.918	20	
Nitrogen, Nitrate (As N)	63	1.0	25.00	34.22	115	79.1	116	1.27	20	
Sample ID MB	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	300.0: Anions	;		
Client ID: PBW	Batch	1D: <b>R5</b>	8326	RunNo: <b>58326</b>						
Prep Date:	Analysis D	ate: 3/	12/2019	5	SeqNo: 1	956687	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Sample ID LCS	SampT	SampType: LCS TestCode: EPA Method 30					300.0: Anion	s		
Client ID: LCSW	Batch	h ID: <b>R5</b>	8326	F	RunNo: 5	8326				
Prep Date:	Analysis D	Date: <b>3/</b>	12/2019	SeqNo: 1956688			3 Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.4	90	110			
Nitrogen, Nitrite (As N)	0.97	0.10	1.000	0	97.2	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.0	90	110			

#### Qualifiers:

Chloride

Nitrogen, Nitrite (As N)

Nitrogen, Nitrate (As N)

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 8 of 10

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903515** 

26-Mar-19

**Client:** EA Engineering

**Project:** Dona Ana Dairies Consortium

Sample ID MB-43716 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43716 RunNo: 58471

Prep Date: 3/15/2019 Analysis Date: 3/19/2019 SeqNo: 1962398 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID LCS-43716 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43716 RunNo: 58471

Prep Date: 3/15/2019 Analysis Date: 3/19/2019 SeqNo: 1962399 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 991 20.0 1000 0 99.1 80 120

Sample ID 1903515-005ADUP SampType: DUP TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: **DAD-19** Batch ID: **43716** RunNo: **58471** 

Prep Date: 3/15/2019 Analysis Date: 3/19/2019 SeqNo: 1962407 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 2920 20.0 0.0685 10 \*

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 9 of 10

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903515

26-Mar-19

**Client:** EA Engineering

**Project:** Dona Ana Dairies Consortium

Sample ID MB-43827 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43827 RunNo: 58594

Prep Date: 3/21/2019 Analysis Date: 3/22/2019 SeqNo: 1967309 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID LCS-43827 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43827 RunNo: 58594

Prep Date: 3/21/2019 Analysis Date: 3/22/2019 SeqNo: 1967310 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 101 80 120

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analyte detected in the associated withhold Blank

Page 10 of 10



Good

Not Present

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: EA Engineering Alb	Work Order Numl	ber: 1903515		RcptNo: 1	
Received By: Desiree Dominguez  Completed By: Desiree Dominguez  Reviewed By: FO  DAD 3/17/16	3/12/2019 9:05:00 / 3/12/2019 10:32:01 3 / (2 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		De De		
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No 🗆	Not Present	
2. How was the sample delivered?		FedEx			
Log In					
Was an attempt made to cool the sample	es?	Yes 🔽	No 🗆	NA 🗆	
4. Were all samples received at a temperat	ure of >0° C to 6.0°C	Yes 🔽	No 🗆	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗆		
6. Sufficient sample volume for indicated te	st(s)?	Yes 🗹	No 🗌		
7, Are samples (except VOA and ONG) pro	perly preserved?	Yes 🗹	No 🗌		
B. Was preservative added to bottles?		Yes 🗆	No 🗹	NA 🗆	
9. VOA vials have zero headspace?		Yes	No 🗆	No VOA Vials	
10, Were any sample containers received br	oken?	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	for pH: 7	unless noted)
<ol><li>Are metrices correctly identified on Chain</li></ol>	of Custody?	Yes 🗸	No 🗆	Adjusted? No	3
13. Is it clear what analyses were requested?	2	Yes 🔽	No 🗆		24.010
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗸	No 🗆	Checked by: DAI	3/12/19
Special Handling (if applicable)					
15. Was client notified of all discrepancies w	with this order?	Yes 🗌	No 🗆	NA 🗸	
Person Notified: Crina B  By Whom: Leah Ba  Regarding: Collection  Client Instructions: Use Con	rullen Date:  (a Via:  n Clast Old Crep  lection Clast on	3/12/14 -> X eMail X which between	o diglig Phone □ Fax sen COC	In Person	
16. Additional remarks:  17. Cooler Information  Cooler No   Temp °C   Condition	Seal Intact Seal No	Seal Date	Signed By		

O	hain	-of-Cu	Chain-of-Custody Record	Turn-Around Time:	Time:				MAI I ENI	MANAGE	IAF
Client:		neering, Sci	EA Engineering, Science, and Technology	(A Standard	□ Rush			-	NALYSI	ANALYSIS LABORATORY	ORY
				Project Name:				KS 2000	www.hallenvironmental.com	mental.com	
Mailing Add	ress: 320 Golk	d Ave SW Suite	failing Address: \$20 Gold Ave SW Suite 1300 Albuquerque, NM, 87102		Dona Ana Da	Dona Ana Dairies Consortium	4901	Hawk	ins NE - Albuqu	4901 Hawkins NE - Albuquerque, NM 87109	
				Project #:			Tel.	505-3	Tel. 505-345-3975 Fax	Fax 505-345-4107	
Phone #	#	505-715-4279	4279						Anal	Analysis Request	
email o	email or Fax#:	rmullen@	rmullen@eaest com	Project Manager:	ger:		0.0				
QA/QC Pack	QA/QC Package:	576	Level 4 (Full Validation)		Gina Mullen						
Accreditation:	tation			Sampler J.	Justin Vas	Vasque	_				(
O NELAP	AP	□ Other		5.00	co	ON D					N 10
O EDC	EDD (Type)			Sample Temperature:		0.9%		_			· N
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1903515	Nitrate/Nitri	Chloride EF	TDS SM 25		Air Bubbles
61-11-	1234	3	DAO-10	7		1001	× 人	×	٧		
	ISH		DAD-11	7		-007	メ	X	×		
_	1129		DA0-12	2		- 003	X	X	x		
_	373		Droye	2		,00d	×	X	×		
_	3201		D+0-19	2		- 005	X	X	×		
_	1162		D40-24	2		-006	X	λ	×		
	343		22-040	2		-007	×	X	×		
26		-5									
								_			
								+			
Date:	Time: / 1/15	Relinquished by:	4	Received by:	FEDEX	3/12/19 9:05	Remarks:				
Date:	Time:	Relinquished by		Received by:	h	Date Time					
	If necessary	r, samples sub	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report	contracted to other a	ocredited laboratorie	s. This serves as notice of this	s possibility. Any	co-qns	ntracted data will be clea	rly notated on the analytical reg	300



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 26, 2019

Regina Mullen
EA Engineering
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX:

RE: Del Oro OrderNo.: 1903425

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 6 sample(s) on 3/8/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

#### Lab Order **1903425**

Date Reported: 3/26/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: 692-02

 Project:
 Del Oro
 Collection Date: 3/7/2019 10:35:00 AM

 Lab ID:
 1903425-001
 Matrix: AQUEOUS
 Received Date: 3/8/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF 1	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: smb
Chloride	640	50		mg/L	100	3/8/2019 7:13:17 PM	R58254
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/8/2019 7:00:25 PM	R58254
Nitrogen, Nitrate (As N)	67	1.0	*	mg/L	10	3/8/2019 7:00:25 PM	R58254
Sulfate	410	5.0		mg/L	10	3/8/2019 7:00:25 PM	R58254
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	2560	20.0	*	mg/L	1	3/18/2019 9:36:00 AM	43684
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/19/2019 5:00:00 PM	43774

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode
- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

#### Lab Order **1903425**

Date Reported: 3/26/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: 692-06

 Project:
 Del Oro
 Collection Date: 3/7/2019 9:36:00 AM

 Lab ID:
 1903425-002
 Matrix: AQUEOUS
 Received Date: 3/8/2019 8:50:00 AM

Analyses	Result	RL (	Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst	: smb
Chloride	420	50	mg/L	100 3/8/2019 7:39:00 PM	R58254
Nitrogen, Nitrite (As N)	ND	1.0	mg/L	10 3/8/2019 7:26:09 PM	R58254
Nitrogen, Nitrate (As N)	3.1	1.0	mg/L	10 3/8/2019 7:26:09 PM	R58254
Sulfate	210	5.0	mg/L	10 3/8/2019 7:26:09 PM	R58254
SM2540C MOD: TOTAL DISSOLVED SOLIDS				Analyst	:: CJS
Total Dissolved Solids	1450	20.0	* mg/L	1 3/18/2019 9:36:00 AM	43684
SM 4500 NORG C: TKN				Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1 3/19/2019 5:00:00 PM	43774

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode
- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

#### Lab Order **1903425**

Date Reported: 3/26/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: 692-07

 Project:
 Del Oro
 Collection Date: 3/7/2019 9:10:00 AM

 Lab ID:
 1903425-003
 Matrix: AQUEOUS
 Received Date: 3/8/2019 8:50:00 AM

Analyses	Result	RL	Qual Uni	ts DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	:: smb
Chloride	580	50	mg/	L 10	0 3/8/2019 8:04:43 PM	R58254
Nitrogen, Nitrite (As N)	ND	1.0	mg/	L 10	3/8/2019 7:51:52 PM	R58254
Nitrogen, Nitrate (As N)	3.5	1.0	mg,	L 10	3/8/2019 7:51:52 PM	R58254
Sulfate	220	5.0	mg,	L 10	3/8/2019 7:51:52 PM	R58254
SM2540C MOD: TOTAL DISSOLVED SOLIDS					Analys	:: CJS
Total Dissolved Solids	1680	40.0	*D mg/	L 1	3/18/2019 9:36:00 AM	43684
SM 4500 NORG C: TKN					Analys	: OG
Nitrogen, Kjeldahl, Total	ND	1.0	mg,	L 1	3/19/2019 5:00:00 PM	43774

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

#### Lab Order **1903425**

Date Reported: 3/26/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: 692-08

 Project:
 Del Oro
 Collection Date: 3/7/2019 8:56:00 AM

 Lab ID:
 1903425-004
 Matrix: AQUEOUS
 Received Date: 3/8/2019 8:50:00 AM

Analyses	Result	RL (	Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst:	smb
Chloride	420	50	mg/L	100 3/8/2019 8:56:14 PM	R58254
Nitrogen, Nitrite (As N)	ND	1.0	mg/L	10 3/8/2019 8:43:23 PM	R58254
Nitrogen, Nitrate (As N)	2.6	1.0	mg/L	10 3/8/2019 8:43:23 PM	R58254
Sulfate	190	5.0	mg/L	10 3/8/2019 8:43:23 PM	R58254
SM2540C MOD: TOTAL DISSOLVED SOLIDS				Analyst:	CJS
Total Dissolved Solids	1400	40.0	*D mg/L	1 3/18/2019 9:36:00 AM	43684
SM 4500 NORG C: TKN				Analyst:	OG
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1 3/19/2019 5:00:00 PM	43774

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode
- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

#### Lab Order **1903425**

Date Reported: 3/26/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: 692-09

 Project:
 Del Oro
 Collection Date: 3/7/2019 10:01:00 AM

 Lab ID:
 1903425-005
 Matrix: AQUEOUS
 Received Date: 3/8/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	390	50		mg/L	100	3/8/2019 9:21:58 PM	R58254
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/8/2019 9:09:06 PM	R58254
Nitrogen, Nitrate (As N)	3.0	1.0		mg/L	10	3/8/2019 9:09:06 PM	R58254
Sulfate	200	5.0		mg/L	10	3/8/2019 9:09:06 PM	R58254
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	CJS
Total Dissolved Solids	1400	20.0	*	mg/L	1	3/18/2019 9:36:00 AM	43684
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/19/2019 5:00:00 PM	43774

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode
- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

#### Lab Order 1903425

Date Reported: 3/26/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: LRG-5820

 Project:
 Del Oro
 Collection Date: 3/7/2019 10:10:00 AM

 Lab ID:
 1903425-006
 Matrix: AQUEOUS
 Received Date: 3/8/2019 8:50:00 AM

Analyses	Result	RL (	Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst:	smb
Chloride	370	50	mg/L	100 3/8/2019 9:47:41 PM	R58254
Nitrogen, Nitrite (As N)	ND	1.0	mg/L	10 3/8/2019 9:34:49 PM	R58254
Nitrogen, Nitrate (As N)	ND	1.0	mg/L	10 3/8/2019 9:34:49 PM	R58254
SM2540C MOD: TOTAL DISSOLVED SOLIDS				Analyst:	CJS
Total Dissolved Solids	1310	20.0	* mg/L	1 3/18/2019 9:36:00 AM	43684
SM 4500 NORG C: TKN				Analyst:	OG
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1 3/19/2019 5:00:00 PM	43774

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode
- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903425

26-Mar-19

Client: EA Engineering

**Project:** Del Oro

Sample ID: MB SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: PBW Batch ID: **R58254** RunNo: 58254 Prep Date: Analysis Date: 3/8/2019 SeqNo: 1953912 Units: mg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride ND 0.50 Nitrogen, Nitrite (As N) ND 0.10 Nitrogen, Nitrate (As N) ND 0.10 Sulfate ND 0.50

Sample ID: LCS	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: LCSW	Batcl	n ID: <b>R5</b>	8254	F	RunNo: 58	8254				
Prep Date:	Analysis D	oate: 3/	8/2019	S	SeqNo: 1	953913	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	96.2	90	110			
Nitrogen, Nitrite (As N)	0.98	0.10	1.000	0	97.8	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	102	90	110			
Sulfate	10	0.50	10.00	0	99.9	90	110			

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903425** 

26-Mar-19

**Client:** EA Engineering

**Project:** Del Oro

Sample ID: MB-43684 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43684 RunNo: 58417

Prep Date: 3/14/2019 Analysis Date: 3/18/2019 SegNo: 1960280 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43684 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43684 RunNo: 58417

Prep Date: 3/14/2019 Analysis Date: 3/18/2019 SeqNo: 1960281 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1020 20.0 1000 0 102 80 120

Sample ID: 1903425-001ADUP SampType: DUP TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: 692-02 Batch ID: 43684 RunNo: 58417

Prep Date: 3/14/2019 Analysis Date: 3/18/2019 SeqNo: 1960286 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 2530 20.0 1.06 10 \*

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 1903425

26-Mar-19

**Client:** EA Engineering

**Project:** Del Oro

Sample ID: MB-43774 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43774 RunNo: 58486

Prep Date: 3/19/2019 Analysis Date: 3/19/2019 SeqNo: 1963233 Units: mg/L

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43774 SampType: LCS TestCode: SM 4500 Norg C: TKN

Batch ID: 43774 Client ID: LCSW RunNo: 58486

Prep Date: 3/19/2019 Analysis Date: 3/19/2019 SeqNo: 1963234 Units: mg/L

PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 102 120

Sample ID: 1903425-003AMS SampType: MS TestCode: SM 4500 Norg C: TKN

Client ID: 692-07 Batch ID: 43774 RunNo: 58486

Prep Date: 3/19/2019 Analysis Date: 3/19/2019 SeqNo: 1963244 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 101

Sample ID: 1903425-003AMSD SampType: MSD TestCode: SM 4500 Norg C: TKN

Client ID: 692-07 Batch ID: 43774 RunNo: 58486

1.0

10

Prep Date: 3/19/2019 Analysis Date: 3/19/2019 SeqNo: 1963245 Units: mg/L

10.00

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual O

101

125

75

0

20

Qualifiers:

Nitrogen, Kjeldahl, Total

Value exceeds Maximum Contaminant Level

ND Not Detected at the Reporting Limit RL Reporting Detection Limit

Sample container temperature is out of limit as specified at testcode

Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: E	EA Engineering Alb	Work Order Numl	per: 1903425		RcptNo:	1
Received By:	Isaiah Ortiz	3/8/2019 8:50:00 A	м	ILO	*	
Completed By:	Erin Melendrez	3/8/2019 11:06:16	AM	I-O	2	
Reviewed By:	K 3 8/19	3/8/19				
Chain of Custo	ody					
1. Is Chain of Cust	tody complete?		Yes 🗸	No $\square$	Not Present	
2. How was the sa	mple delivered?		<u>FedEx</u>			
Log In						
	made to cool the samp	les?	Yes 🗸	No 🗌	NA $\square$	
4. Were all sample	s received at a tempera	ture of >0° C to 6.0°C	Yes 🗸	No 🗌	NA $\square$	
5. Sample(s) in pro	oper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sample	e volume for indicated te	est(s)?	Yes 🗸	No 🗌		
7. Are samples (exc	cept VOA and ONG) pro	perly preserved?	Yes 🗸	No 🗌		
8. Was preservative	e added to bottles?		Yes $\square$	No 🗸	NA $\square$	
9. VOA vials have z	zero headspace?		Yes	No 🗌	No VOA Vials	
10. Were any sampl	le containers received b	roken?	Yes	No 🗸	# of preserved	
	match bottle labels? cies on chain of custody	)	Yes 🗸	No 🗆	for pH:	>12 unless noted)
2. Are matrices corr	rectly identified on Chair	n of Custody?	Yes 🗸	No 🗌	Adjusted?	20
3. Is it clear what ar	nalyses were requested	?	Yes 🗸	No 🗌		1 m 1 (
	times able to be met? omer for authorization.)		Yes 🗸	No 🗆	Checked by:	23 3 8
Special Handling	g (if applicable)					
	ed of all discrepancies v	vith this order?	Yes	No 🗆	NA 🗸	
Person No	otified:	Date:				
By Whom:		Via:	eMail F	Phone  Fax	In Person	
Regarding	:					
Client Instr	ructions:					
16. Additional rema	rks:					
17. Cooler Informa Cooler No	tion Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
	0.8 Good	Yes	Jour Date	Signed by		

S	hain-	of-Cu	Chain-of-Custody Record	I urn-Around I	Ime:				1	•	L	MT	INTERNATION MENTAL		E		
Client:	EA Engin	eering, Scie	EA Engineering, Science, and Technology	A Standard	□ Rush	8			- ≪	Z	LYS	SI	ANALYSIS LABORATORY	R	6	, <b>&gt;</b>	
	e mydd			Project Name:	•.,					d.ww	allenvir	onmer	www.hallenvironmental.com				
Mailing Add	ress: 320 Gold	Ave SW Suite	Mailing Address: 320 Gold Ave SW Suite 1300 Albuquerque, NM, 87102		Del Oro			4901 Hawkins NE	Hawki	ns NE		querq	- Albuquerque, NM 87109	7109			
				Project #:				Tel. 5	05-34	Tel. 505-345-3975	5 F8	3X 505	Fax 505-345-4107	7			1
Phone #:	#:	505-715-4279	4279								Analysis Request	is Re	luest				
email or Fax#:	r Fax#:	rmullen@	rmullen@eaest.com	Project Manager:	ger:			0.0				-					
aA/ac	QA/QC Package:				Gina Mullen			0E P					19		4		
□ Standard	Idard		☐ Level 4 (Full Validation)			=	T										
Accreditation:	itation: AP	□ Other		Sampler:	Justin Vesa	المارية المارية					0:0					(N 10	/
□ EDD (Type)	(Type)			Tem	perature:	2.80					000					) Y)	٠.١
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	1903425	. •	Nitrate/Nitrii TKN SM 45	Chloride EF	TDS SM 25	Sulfate EPA	Total Sulfur		•		səlddu8 1iA	001665
3-7-19	1035	3	692-02	5		-001	, ,	X	X	X							
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	856		692-08	C		-00d		×	X	人	×						1
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-	1010	-	LRG-5830	7		-000c	86	X	X	×							
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		T'															
Date:	Time:	Relinquished by:	od by:	Received by:		te Time	Remarks:	arks:									
3-1-19	1330	:a	>	13	Fedex	088	2										
Date:	Time:	Relinquished by:	ed by:	Received by:		Date											
	If necessary,	samples sub	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	ontracted to other a	ccredited laboratori	ies. This serves as notice o	f this possib	lity. Any	sub-conf	racted d	ata will be	clearly no	ated on the a	ınalytical r	eport.		1



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 19, 2019

Regina Mullen
EA Engineering Alb
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Dominguez Dairy 1 OrderNo.: 1903025

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/1/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

#### Lab Order **1903025**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/19/2019

CLIENT: EA Engineering Alb Client Sample ID: LRG-00591-S

**Project:** Dominguez Dairy 1
 Collection Date: 2/28/2019 10:53:00 AM

 **Lab ID:** 1903025-001
 Matrix: AQUEOUS
 Received Date: 3/1/2019 8:53:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	: MRA
Chloride	1200	50		mg/L	100	3/1/2019 3:07:30 PM	R58073
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/1/2019 2:28:55 PM	R58073
Nitrogen, Nitrate (As N)	28	1.0	*	mg/L	10	3/1/2019 2:28:55 PM	R58073
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analys	: CJS
Total Dissolved Solids	3410	20.0	*	mg/L	1	3/8/2019 9:35:00 AM	43522
SM 4500 NORG C: TKN						Analys	: OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/7/2019 2:00:00 PM	43543

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 8
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

#### Lab Order 1903025

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/19/2019

CLIENT: EA Engineering Alb Client Sample ID: LRG-00591-S-2

 Project:
 Dominguez Dairy 1
 Collection Date: 2/28/2019 10:46:00 AM

 Lab ID:
 1903025-002
 Matrix: AQUEOUS
 Received Date: 3/1/2019 8:53:00 AM

**RL Qual Units Analyses** Result **DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 440 100 3/1/2019 3:33:12 PM R58073 50 mg/L Nitrogen, Nitrite (As N) ND 1.0 mg/L 3/1/2019 3:20:21 PM R58073 Nitrogen, Nitrate (As N) 3/1/2019 3:20:21 PM R58073 2.3 1.0 mg/L SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: CJS **Total Dissolved Solids** 1730 20.0 mg/L 1 3/8/2019 9:35:00 AM 43522 SM 4500 NORG C: TKN Analyst: **OG** Nitrogen, Kjeldahl, Total ND 3/7/2019 2:00:00 PM 43543 1.0 mg/L

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 8
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

#### Lab Order 1903025

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/19/2019

CLIENT: EA Engineering Alb Client Sample ID: 624-01

**Project:** Dominguez Dairy 1
 Collection Date: 2/28/2019 9:28:00 AM

 **Lab ID:** 1903025-003
 Matrix: AQUEOUS
 Received Date: 3/1/2019 8:53:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	1000	50		mg/L	100	3/1/2019 3:58:56 PM	R58073
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/1/2019 3:46:04 PM	R58073
Nitrogen, Nitrate (As N)	11	1.0	*	mg/L	10	3/1/2019 3:46:04 PM	R58073
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	3170	20.0	*	mg/L	1	3/8/2019 9:35:00 AM	43522
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/7/2019 2:00:00 PM	43543

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 8
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

#### Lab Order **1903025**

Date Reported: 3/19/2019

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 624-02

**Project:** Dominguez Dairy 1
 Collection Date: 2/28/2019 10:04:00 AM

 **Lab ID:** 1903025-004
 Matrix: AQUEOUS
 Received Date: 3/1/2019 8:53:00 AM

Analyses	Result	RL (	Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analys	t: MRA
Chloride	950	50	mg/L	100 3/1/2019 4:24:39 PM	R58073
Nitrogen, Nitrite (As N)	ND	1.0	mg/L	10 3/1/2019 4:11:48 PM	R58073
Nitrogen, Nitrate (As N)	8.2	1.0	mg/L	10 3/1/2019 4:11:48 PM	R58073
SM2540C MOD: TOTAL DISSOLVED SOLIDS				Analys	t: <b>CJS</b>
Total Dissolved Solids	3130	20.0	* mg/L	1 3/8/2019 9:35:00 AM	43522
SM 4500 NORG C: TKN				Analys	t: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1 3/7/2019 2:00:00 PM	43543

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 8
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

#### Lab Order **1903025**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/19/2019

CLIENT: EA Engineering Alb Client Sample ID: 624-05

**Project:** Dominguez Dairy 1
 Collection Date: 2/28/2019 10:28:00 AM

 **Lab ID:** 1903025-005
 Matrix: AQUEOUS
 Received Date: 3/1/2019 8:53:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	370	50		mg/L	100	3/1/2019 5:16:04 PM	R58073
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/1/2019 5:03:13 PM	R58073
Nitrogen, Nitrate (As N)	6.6	1.0		mg/L	10	3/1/2019 5:03:13 PM	R58073
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	1920	40.0	*D	mg/L	1	3/8/2019 9:35:00 AM	43522
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/7/2019 2:00:00 PM	43543

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank	
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 8	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quanitative Limit	RL Reporting Detection Limit		
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903025** 

19-Mar-19

Client: EA Engineering Alb
Project: Dominguez Dairy 1

Sample ID: MB SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBW Batch ID: **R58073** RunNo: 58073 Prep Date: Analysis Date: 3/1/2019 SeqNo: 1946167 Units: mg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride ND 0.50 Nitrogen, Nitrite (As N) ND 0.10 Nitrogen, Nitrate (As N) ND 0.10

Sample ID: LCS TestCode: EPA Method 300.0: Anions SampType: Ics Client ID: LCSW Batch ID: **R58073** RunNo: 58073 Prep Date: Analysis Date: 3/1/2019 SeqNo: 1946168 Units: mg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0 95.8 Chloride 4.8 0.50 5.000 90 110 Nitrogen, Nitrite (As N) 0.96 0.10 1.000 0 96.4 90 110 Nitrogen, Nitrate (As N) 2.5 0.10 2.500 0 101 90 110

Sample ID: 1903025-001AMS TestCode: EPA Method 300.0: Anions SampType: ms Client ID: LRG-00591-S RunNo: 58073 Batch ID: **R58073** Prep Date: Analysis Date: 3/1/2019 SeqNo: 1946192 Units: mg/L Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit PQL** Qual Nitrogen, Nitrite (As N) 6.4 1.0 10.00 64.5 82.4 108 Nitrogen, Nitrate (As N) 53 1.0 25.00 27.67 102 79.1 116

Sample ID: 1903025-001AMSD TestCode: EPA Method 300.0: Anions SampType: msd Client ID: LRG-00591-S Batch ID: **R58073** RunNo: 58073 Prep Date: Analysis Date: 3/1/2019 SeqNo: 1946193 Units: mq/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Nitrogen, Nitrite (As N) 6.5 1.0 10.00 64.7 82.4 108 0.381 20 S Nitrogen, Nitrate (As N) 53 25.00 27.67 101 79.1 20 1.0 116 0.291

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 6 of 8

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903025** 

19-Mar-19

Client: EA Engineering Alb
Project: Dominguez Dairy 1

Sample ID: MB-43522 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43522 RunNo: 58224

Prep Date: 3/5/2019 Analysis Date: 3/8/2019 SeqNo: 1953005 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43522 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43522 RunNo: 58224

Prep Date: 3/5/2019 Analysis Date: 3/8/2019 SeqNo: 1953006 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1000 20.0 1000 0 100 80 120

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 7 of 8

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903025** 

19-Mar-19

Client: EA Engineering Alb
Project: Dominguez Dairy 1

Sample ID: MB-43543 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43543 RunNo: 58218

Prep Date: 3/6/2019 Analysis Date: 3/7/2019 SeqNo: 1952830 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43543 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43543 RunNo: 58218

Prep Date: 3/6/2019 Analysis Date: 3/7/2019 SeqNo: 1952831 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 101 80 120

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 8 of 8



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: EA Enginee	ring Alb Work O	rder Number: 1903025		RcptNo: 1
Received By: Yazmine C	Garduno 3/1/2019 8	8:53:00 AM	Ngrapain (iffendante	
Reviewed By: VUZ 31)		10:32:45 AM	Victnia Gilar	labeled by
Chain of Custody		•		211/19
1. Is Chain of Custody compl	ete?	Yes 🗹	No 🗌	Not Present
2. How was the sample delive	ered?	<u>FedEx</u>		
Log In 3. Was an attempt made to c	pol the samples?	Yes 🗹	No 🗌	na 🗆
4. Were all samples received	at a temperature of >0° C to	6.0°C Yes ✓	No 🗆	NA 🗆
5. Sample(s) in proper contain	ner(s)?	Yes 🗸	No 🗌	
6. Sufficient sample volume fo	or indicated test(s)?	Yes 🔽	No 🗌	
7. Are samples (except VOA a	and ONG) properly preserved	? Yes <b>⊻</b>	No 🗌	
8. Was preservative added to	bottles?	Yes	No 🗹	NA 🗆
9. VOA vials have zero heads	pace?	Yes	No 🗌 N	o VOA Vials 🗹
10. Were any sample containe	rs received broken?	Yes 🗀	No 🗹 🏻 #	of preserved
11. Does paperwork match bott (Note discrepancies on cha		Yes 🗹	b	ottles checked 5 pr pH: (©2 or >12 unless noted)
2. Are matrices correctly ident		Yes 🗹	No 🗆	Adjusted? NO
3. Is it clear what analyses we	re requested?	Yes 🗹	No 🗆	
<ol> <li>Were all holding times able (If no, notify customer for a)</li> </ol>		Yes 🗸	No 🗆	Checked by: DAD 3/1//9
Special Handling (if app	licable)			
15. Was client notified of all dis	<del></del>	Yes 🗌	No 🗌	na 🗹
Person Notified:  By Whom:  Regarding:		Date   Via:	Phone Fax	In Person
Client Instructions:				O TOTAL CONTINUE TO THE PROPERTY OF THE PROPER
16. Additional remarks:				
17. Cooler Information				
Cooler No Temp °C	Paris	Seal No Seal Date	Signed By	
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	hain	-of-Cu	ord	Turn-Around Time:	ime:				4	<	<u></u>	2	IAI ENVIDONMENTAL	7	Ū	-	-	
Slient:		eering, Sci	EA Engineering, Science, and Technology	X Standard	□ Rush	h			- 🤻	Z	֡֝֞֝֝֝֞֝֝֝֓֞֝֟֝֝֝֝֝֟֝֝֝֝֝֟֝֝֝֝֟֝֝ ֖֖֖֪֪֪֪֪֪֪֪֪֪֪֡֞֞֡֡֞֡֡֡֡֞	SIS	ANALYSIS LABORATORY	80	8	: 0 -	<b>,</b>	
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failing Add	iress: 320 Gold	d Ave SW Suite	iailing Address: 320 Gold Ave SW Suite 1300 Albuquerque, NM, 67102		Domniguez			4901 Hawkins NE	lawk	ns NE	₹ -	anbno	- Albuquerque, NM 87109	VM 87	109			
				Project #:			,	Tel. 505-345-3975	05-34	5-397	'n	Fax 5	Fax 505-345-4107	5-410	_			
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A/OC Star	DA/OC Package: ☐ Standard		□ Level 4 (Full Validation)		Gina Mullen				v			•	:				_	
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J EDE	☐ EDD (Type)_				Temperature: ()	16° W231110				) Ot								э Y)
Date	Time	Matrix	Sample Request ID	Container I	Preservative Type	HEAL NO		Nitrate/Nitrit TKN SM 45	Chloride EP	TDS SM 25	· .		'		er e			səlddu8 jiA
11.97	1053	3	186-00591-5	7		)   (W) _		×	X	<b>×</b>							-	
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 21, 2019

Regina Mullen
EA Engineering Alb
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Dominguez 2 OrderNo.: 1903305

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/7/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

# Lab Order **1903305**Date Reported: **3/21/2019**

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 42-02

 Project:
 Dominguez 2
 Collection Date: 3/6/2019 9:42:00 AM

 Lab ID:
 1903305-001
 Matrix: AQUEOUS
 Received Date: 3/7/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	460	50		mg/L	100	3/11/2019 10:59:46 AM	R58284
Nitrate+Nitrite as N	7.0	1.0		mg/L	5	3/11/2019 4:10:02 PM	R58284
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	CJS
Total Dissolved Solids	2750	20.0	*	mg/L	1	3/15/2019 9:51:00 AM	43657
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/19/2019 1:30:00 PM	43719

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 11
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Lab Order **1903305**Date Reported: **3/21/2019**

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 42-03

 Project:
 Dominguez 2
 Collection Date: 3/6/2019 11:39:00 AM

 Lab ID:
 1903305-002
 Matrix: AQUEOUS
 Received Date: 3/7/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	1100	50		mg/L	100	3/11/2019 11:24:35 AM	R58284
Nitrate+Nitrite as N	32	1.0	*	mg/L	5	3/11/2019 4:22:26 PM	R58284
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	3390	20.0	*	mg/L	1	3/15/2019 9:51:00 AM	43657
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/19/2019 1:30:00 PM	43719

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 11
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Lab Order **1903305**Date Reported: **3/21/2019**

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 42-06

 Project:
 Dominguez 2
 Collection Date: 3/6/2019 10:42:00 AM

 Lab ID:
 1903305-003
 Matrix: AQUEOUS
 Received Date: 3/7/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	470	50		mg/L	100	3/11/2019 11:49:25 AM	R58284
Nitrate+Nitrite as N	130	10	*	mg/L	50	3/13/2019 5:58:18 PM	R58362
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	CJS
Total Dissolved Solids	2810	20.0	*	mg/L	1	3/15/2019 9:51:00 AM	43657
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/19/2019 1:30:00 PM	43719

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#### Lab Order 1903305

Date Reported: 3/21/2019

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 42-08

 Project:
 Dominguez 2
 Collection Date: 3/6/2019 10:17:00 AM

 Lab ID:
 1903305-004
 Matrix: AQUEOUS
 Received Date: 3/7/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	96	5.0		mg/L	10	3/11/2019 12:01:50 PM	R58284
Nitrate+Nitrite as N	49	2.0	*	mg/L	10	3/13/2019 6:10:42 PM	R58362
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	CJS
Total Dissolved Solids	1310	20.0	*	mg/L	1	3/15/2019 9:51:00 AM	43657
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/19/2019 1:30:00 PM	43719

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 11
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Lab Order **1903305**

Date Reported: 3/21/2019

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 42-10

 Project:
 Dominguez 2
 Collection Date: 3/6/2019 12:52:00 PM

 Lab ID:
 1903305-005
 Matrix: AQUEOUS
 Received Date: 3/7/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	370	50		mg/L	100	3/11/2019 1:03:54 PM	R58284
Nitrate+Nitrite as N	ND	1.0		mg/L	5	3/11/2019 4:59:39 PM	R58284
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	1410	40.0	*D	mg/L	1	3/15/2019 9:51:00 AM	43657
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/19/2019 1:30:00 PM	43719

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 11
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	PQL S			1 0

# Lab Order **1903305**Date Reported: **3/21/2019**

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 42-11

 Project:
 Dominguez 2
 Collection Date: 3/6/2019 12:21:00 PM

 Lab ID:
 1903305-006
 Matrix: AQUEOUS
 Received Date: 3/7/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	260	50		mg/L	100	3/11/2019 1:28:43 PM	R58284
Nitrate+Nitrite as N	1.3	1.0		mg/L	5	3/11/2019 5:49:19 PM	R58284
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	1160	20.0	*	mg/L	1	3/15/2019 9:51:00 AM	43657
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/19/2019 1:30:00 PM	43719

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 11
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

#### Lab Order 1903305

Date Reported: 3/21/2019

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 42-12

 Project:
 Dominguez 2
 Collection Date: 3/6/2019 12:37:00 PM

 Lab ID:
 1903305-007
 Matrix: AQUEOUS
 Received Date: 3/7/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	300	50		mg/L	100	3/11/2019 1:53:33 PM	R58284
Nitrate+Nitrite as N	ND	1.0		mg/L	5	3/11/2019 6:01:43 PM	R58284
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	CJS
Total Dissolved Solids	1190	20.0	*	mg/L	1	3/15/2019 9:51:00 AM	43657
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/19/2019 1:30:00 PM	43719

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 11
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

# Lab Order **1903305**Date Reported: **3/21/2019**

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 42-13

 Project:
 Dominguez 2
 Collection Date: 3/6/2019 11:08:00 AM

 Lab ID:
 1903305-008
 Matrix: AQUEOUS
 Received Date: 3/7/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	910	50		mg/L	100	3/11/2019 2:18:22 PM	R58284
Nitrate+Nitrite as N	54	4.0	*	mg/L	20	3/13/2019 6:23:07 PM	R58362
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	3510	20.0	*	mg/L	1	3/15/2019 9:51:00 AM	43657
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/19/2019 1:30:00 PM	43719

Qualifiers:	*	Value exceeds Maximum Contaminant Level.		Analyte detected in the associated Method Blank		
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range		
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 11		
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range		
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit		
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified		
		Practical Quanitative Limit		Reporting Detection Limit		

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903305** 

21-Mar-19

**Client:** EA Engineering Alb

**Project:** Dominguez 2

Sample ID: MB SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R58284 RunNo: 58284

Prep Date: Analysis Date: 3/11/2019 SeqNo: 1954875 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Chloride
 ND
 0.50

 Nitrate+Nitrite as N
 ND
 0.20

Sample ID: LCS SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R58284 RunNo: 58284

Prep Date: Analysis Date: 3/11/2019 SeqNo: 1954876 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride 4.6 0.50 5.000 0 91.2 90 110

Nitrate+Nitrite as N 3.3 0.20 3.500 0 95.0 90 110

Sample ID: MB SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R58362 RunNo: 58362

Prep Date: Analysis Date: 3/13/2019 SeqNo: 1957753 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrate+Nitrite as N ND 0.20

Sample ID: LCS SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R58362 RunNo: 58362

Prep Date: Analysis Date: 3/13/2019 SeqNo: 1957754 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrate+Nitrite as N 3.5 0.20 3.500 0 99.1 90 110

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 9 of 11

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1903305

21-Mar-19

**Client:** EA Engineering Alb

**Project:** Dominguez 2

Sample ID: MB-43657 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43657 RunNo: 58389

Prep Date: 3/13/2019 Analysis Date: 3/15/2019 SeqNo: 1959330 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43657 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43657 RunNo: 58389

Prep Date: 3/13/2019 Analysis Date: 3/15/2019 SeqNo: 1959331 Units: mg/L

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte **PQL** Qual

**Total Dissolved Solids** 1050 20.0 1000 0 105 120

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Reporting Detection Limit

P Sample pH Not In Range

RL

Sample container temperature is out of limit as specified

Page 10 of 11

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903305** 

21-Mar-19

Client: EA Engineering Alb

**Project:** Dominguez 2

Sample ID: MB-43719 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43719 RunNo: 58477

Prep Date: 3/15/2019 Analysis Date: 3/19/2019 SeqNo: 1962495 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43719 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43719 RunNo: 58477

Prep Date: 3/15/2019 Analysis Date: 3/19/2019 SeqNo: 1962496 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 101 80 120

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

ation range

Page 11 of 11



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109 TEL; 505-345-3975 FAX; 505-345-4107 Website: www.hallenvironmental.com

### Sample Log-In Check List

Client Name: EA Engineering Alb Work Order Number: 1903305 RcptNo: 1 Received By: Isaiah Ortiz 3/7/2019 9:05:00 AM u an Erin Melendrez 3/7/2019 10:19:25 AM Completed By: 3/2/19 Reviewed By: Chain of Custody 1. Is Chain of Custody complete? Yes V No 🗌 Not Present 2. How was the sample delivered? FedEx Log In NA . Yes V 3. Was an attempt made to cool the samples? Yes V Were all samples received at a temperature of >0° C to 6.0°C NA Yes V Sample(s) in proper container(s)? Yes V No 6. Sufficient sample volume for indicated test(s)? Yes V No . 7. Are samples (except VOA and ONG) properly preserved? No V NA 8. Was preservative added to bottles? Yes No 🗌 No VOA Vials 9. VOA vials have zero headspace? Yes Yes \_ 10. Were any sample containers received broken? No V # of preserved bottles checked No . Yes V for pH: 11. Does paperwork match bottle labels? (\$2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? Yes V No \_ 12. Are matrices correctly identified on Chain of Custody? Yes V No \_ 13. Is it clear what analyses were requested? Yes V No 🗆 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) NA V 15. Was client notified of all discrepancies with this order? Yes \_\_ No 🗌 Date: 3 7 19 3 4 14 Person Notified: I Gna Mullen Leah Baca Via: eMail Phone Fax In Person By Whom: Regarding: Sample collection date discrepancy-bottle: 3 6 CUC. Client Instructions: Samples collected on 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 1 23 Good Yes

J	Shain	of-CL	Chain-of-Custody Record	Turn-Around Time:	Time:			_	9	7141	A La C	į	Ė		
Client:	377	seering, Sci	EA Engineering, Science, and Technology	EK Standard	□ Rush				ANA	LYSIS	HALL ENVIKONMENIAL ANALYSIS LABORATORY	RAT	Š Ö	ړ ٰ ۲	
				Project Name:				_	www	www.hallenvironmental.com	ental.com				
Mailing Ack	dress 320 Gold	d Ave SW Suite	Maifrig Address 320 Gold Ave SW Suite 1300 Albuquerque, NM, 07102		Domniguez	7	4901	Fa	kins NE	- Albuque	4901 Hawkins NE - Albuquerque, NM 87109	109			
				Project #:			Tel.	505	505-345-3975	5 Fax 5	505-345-4107				
Phone #:	#:	505-715-4279	4279							Analysis Request	Request				
email	email or Fax#:	rmullen@	rmullen@eaest.com	Project Manager:	ger.		0.0								
QA/QC	QA/QC Package:				Gina Mullen		06 b								
□ Standard	ndard		□ Level 4 (Full Validation)				- 2003	_	(						
Accred	Accreditation:	į		ii.	TIN	Vasquer		8/83						(IN	(NI
O NELAP	AP	□ Other		On Ice:	₩ Yes	ON D		0.200	25.50					10	10
	□ EDD (Type)			Sample Temp	Temperature:	232		1,500	0.00					Λ/ ·	110
Date		Time Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	Nitrate/Nitri	Chloride El	TDS SM 25					elddu8 aiA	Air Bubbles
子作	442	3	42-07	4		100-	×	X	×			$\exists$			
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	1101		42-08	d		100-	×	X	X			-			
	(252		42-10	z		-005	X	X	X						
	1221		42-11	6		-000-	X	X	X						
	1237		42-12	3		-007	X	X	X						-
-	1109	-	42-13	7		-008	×	×	×			+			
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Date:	Time: /gg/	Relinquished by	Sol by	Received by:	Bedry	S $ a _{1}$ CSOS	Remarks.						1:		
Date:	Time:	Relinquished by:	sd by:	Received by:		Date Time									

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 18, 2019

Regina Mullen
EA Engineering Alb
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Gonzalez Dairy OrderNo.: 1902C42

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 6 sample(s) on 2/28/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

### Lab Order 1902C42

Date Reported: 3/18/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 177-01

**Project:** Gonzalez Dairy
 Collection Date: 2/27/2019 11:00:00 AM

 **Lab ID:** 1902C42-001
 Matrix: AQUEOUS
 Received Date: 2/28/2019 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	1600	50		mg/L	100	3/1/2019 1:52:58 AM	R58031
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/1/2019 1:15:43 AM	R58031
Nitrogen, Nitrate (As N)	17	1.0	*	mg/L	10	3/1/2019 1:15:43 AM	R58031
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: KS
Total Dissolved Solids	4290	40.0	*D	mg/L	1	3/6/2019 3:13:00 PM	43509
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/6/2019 3:00:00 PM	43517

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 9
	ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit		P	Sample pH Not In Range
			RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Lab Order **1902C42**Date Reported: **3/18/2019**

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering Alb Client Sample ID: 177-02

Project:Gonzalez DairyCollection Date: 2/27/2019 11:24:00 AMLab ID:1902C42-002Matrix: AQUEOUSReceived Date: 2/28/2019 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	580	50		mg/L	100	3/1/2019 2:17:46 AM	R58031
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/1/2019 2:05:22 AM	R58031
Nitrogen, Nitrate (As N)	15	1.0	*	mg/L	10	3/1/2019 2:05:22 AM	R58031
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: KS
Total Dissolved Solids	2380	100	*D	mg/L	1	3/6/2019 3:13:00 PM	43509
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/6/2019 3:00:00 PM	43517

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 9
	ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit		P	Sample pH Not In Range
			RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Lab Order **1902C42**Date Reported: **3/18/2019**

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 177-03A

**Project:** Gonzalez Dairy
 Collection Date: 2/27/2019 9:49:00 AM

 **Lab ID:** 1902C42-003
 Matrix: AQUEOUS
 Received Date: 2/28/2019 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: smb
Chloride	680	50		mg/L	100	3/1/2019 2:42:35 AM	R58031
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/1/2019 2:30:10 AM	R58031
Nitrogen, Nitrate (As N)	14	1.0	*	mg/L	10	3/1/2019 2:30:10 AM	R58031
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: KS
Total Dissolved Solids	2770	100	*D	mg/L	1	3/6/2019 3:13:00 PM	43509
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/6/2019 3:00:00 PM	43517

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 9
	ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit		P	Sample pH Not In Range
			RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Lab Order 1902C42

Date Reported: 3/18/2019

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering Alb Client Sample ID: 177-04

Project:Gonzalez DairyCollection Date: 2/27/2019 10:25:00 AMLab ID:1902C42-004Matrix: AQUEOUSReceived Date: 2/28/2019 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: smb
Chloride	930	50		mg/L	100	3/1/2019 3:32:14 AM	R58031
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/1/2019 3:19:50 AM	R58031
Nitrogen, Nitrate (As N)	16	1.0	*	mg/L	10	3/1/2019 3:19:50 AM	R58031
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: KS
Total Dissolved Solids	3370	20.0	*	mg/L	1	3/6/2019 3:13:00 PM	43509
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/6/2019 3:00:00 PM	43517

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 9
	ND Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Lab Order 1902C42

Date Reported: 3/18/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 177-05

**Project:** Gonzalez Dairy
 Collection Date: 2/27/2019 12:18:00 PM

 **Lab ID:** 1902C42-005
 Matrix: AQUEOUS
 Received Date: 2/28/2019 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: smb
Chloride	1400	50		mg/L	100	3/1/2019 3:57:03 AM	R58031
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/1/2019 3:44:38 AM	R58031
Nitrogen, Nitrate (As N)	24	1.0	*	mg/L	10	3/1/2019 3:44:38 AM	R58031
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: KS
Total Dissolved Solids	4090	20.0	*	mg/L	1	3/6/2019 3:13:00 PM	43509
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/6/2019 3:00:00 PM	43517

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	Е	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 9
ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit		P	Sample pH Not In Range
		RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

# Lab Order **1902C42**Date Reported: **3/18/2019**

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 177-07

Project:Gonzalez DairyCollection Date: 2/27/2019 11:46:00 AMLab ID:1902C42-006Matrix: AQUEOUSReceived Date: 2/28/2019 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: smb
Chloride	860	50		mg/L	100	3/1/2019 4:21:52 AM	R58031
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/1/2019 4:09:28 AM	R58031
Nitrogen, Nitrate (As N)	25	1.0	*	mg/L	10	3/1/2019 4:09:28 AM	R58031
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: KS
Total Dissolved Solids	3110	20.0	*	mg/L	1	3/6/2019 3:13:00 PM	43509
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/6/2019 3:00:00 PM	43517

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 9
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1902C42

18-Mar-19

Client:	EA Engineering Alb
Project:	Gonzalez Dairy

Project: Gonzalez	Dairy									
Sample ID: MB	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	300.0: Anions	3		
Client ID: PBW	Batcl	h ID: <b>R5</b>	8031	F	RunNo: <b>5</b> 8	8031				
Prep Date:	Analysis D	Date: <b>2/</b>	28/2019	S	SeqNo: 1	944713	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sample ID: LCS	SampT	Гуре: <b>LC</b>	s	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID: LCSW	Batcl	h ID: <b>R5</b>	8031	F	RunNo: 5	8031				
Prep Date:	Analysis D	Date: <b>2/</b>	28/2019	9	SeqNo: 1	944714	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	5.0	0.50	5.000	0	99.9	90	110			
Nitrogen, Nitrite (As N)	1.0	0.10	1.000	0	102	90	110			
Nitrogen, Nitrate (As N)	2.7	0.10	2.500	0	106	90	110			
Sample ID: 1902C42-001AMS	SampT	Гуре: МS	3	Tes	tCode: El	PA Method	300.0: Anions	3		
Client ID: 177-01	Batcl	h ID: <b>R5</b>	8031	F	RunNo: <b>5</b> 8	8031				
Prep Date:	Analysis D	Date: 3/	1/2019	5	SeqNo: 1	944752	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	10	1.0	10.00	0.7158	96.8	82.4	108			
Nitrogen, Nitrate (As N)	45	1.0	25.00	17.36	111	79.1	116			
Sample ID: 1902C42-001AMS	<b>D</b> SampT	Гуре: М\$	SD	Tes	tCode: El	PA Method	300.0: Anions	<b>s</b>		
Client ID: 177-01	Batcl	h ID: <b>R5</b>	8031	F	RunNo: <b>5</b> 8	8031				
Prep Date:	Analysis D	Date: 3/	1/2019	5	SeqNo: 1	944753	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	11	1.0	10.00	0.7158	98.5	82.4	108	1.70	20	
Nitrogen, Nitrate (As N)	46	1.0	25.00	17.36	116	79.1	116	2.73	20	S

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

Reporting Detection Limit

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL

Sample container temperature is out of limit as specified

Page 7 of 9

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1902C42

18-Mar-19

**Client:** EA Engineering Alb **Project:** Gonzalez Dairy

Sample ID: MB-43509 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43509 RunNo: 58164

Analysis Date: 3/6/2019 Prep Date: 3/5/2019 SeqNo: 1950649 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43509 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43509 RunNo: 58164

Prep Date: 3/5/2019 Analysis Date: 3/6/2019 SeqNo: 1950650 Units: mg/L

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 120

Sample ID: 1902C42-004ADUP SampType: DUP TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: 177-04 Batch ID: 43509 RunNo: 58164

Prep Date: 3/5/2019 Analysis Date: 3/6/2019 SeqNo: 1950656 Units: mg/L

SPK value SPK Ref Val %REC LowLimit Result **PQL** HighLimit %RPD **RPDLimit** Analyte Qual

Total Dissolved Solids 3360 0.505

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Η

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Page 8 of 9

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1902C42

18-Mar-19

Client: EA Engineering Alb
Project: Gonzalez Dairy

Sample ID: MB-43517 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43517 RunNo: 58189

Prep Date: 3/5/2019 Analysis Date: 3/6/2019 SeqNo: 1951683 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43517 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43517 RunNo: 58189

Prep Date: 3/5/2019 Analysis Date: 3/6/2019 SeqNo: 1951684 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 104 80 120

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 9 of 9



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name:	EA Engineering Alb	Work Order Numl	ber: 1902C42		RcptNo: 1	
Received By:	Thom Maybee	2/28/2019 9:45:00	AM			
Completed By:	Erin Melendrez	2/28/2019,11:52:05	AM	una	<del>7</del>	
Reviewed By:	m 228-19	2/28/19		, -		
Chain of Cus	tody					
1. Is Chain of Co	ustody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the	sample delivered?		<u>FedEx</u>		•	
<u>Log In</u>						
	npt made to cool the sampl	es?	Yes 🗹	No 🗌	NA 🗆	
4. Were all samp	oles received at a temperat	ure of >0° C to 6.0°C	Yes 🗹	No 🗌	na 🗆	
5. Sample(s) in p	proper container(s)?		Yes 🗹	No 🗌		
6 Sufficient sam	ple volume for indicated te	st(s)?	Yes 🗹	No 🗌		•
	except VOA and ONG) pro		Yes 🗹	No 🗆		
	tive added to bottles?		Yes	No 🔽	NA $\square$	
9. VOA vials have	e zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹	
10. Were any san	nple containers received br	oken?	Yes	No 🗹		
				_	# of preserved bottles checked	
	ork match bottle labels?		Yes 🔽	No 🗆	for pH: (2)	unless noted)
	ancies on chain of custody) correctly identified on Chain		Yes 🗸	No □	Adjusted? No	uniess noteu)
	t analyses were requested?		Yes 🗹	No 🗆		
14. Were all holdir	ng times able to be met? ustomer for authorization.)		Yes 🗹	No 🗆	Checked by:	<u> </u>
•	ing (if applicable)					
	tified of all discrepancies w	vith this order?	Yes 🗌	No 🗌	NA 🗹	
Person	Notified:	Date:		Market in the second of the se		
By Who	<b>3</b>	Via:	*	Phone  Fax	☐ In Person	
Regardi	**************************************					
_	nstructions:					
16. Additional rer	marks:					
17. <u>Cooler Infor</u>	mation					
Cooler No	mation Temp ⁰C Condition	Seal Intact   Seal No	Seal Date	Signed By		
1	0.8 Good	Yes	sesiinisiliensiANIiiiiiiiiiiiiiii			
				······································		

Client	hain- EA Engin	-of-Cu	Chain-of-Custody Record E EA Engineering, Science, and Technology	Turn-Around Time:	Time:						₩ - L	2	HALL ENVIRONMENTAL	Z	Σ	Z	₹ (	}	
				Project Name:	<u>ן</u>				4			7	ANALTSIS LABORALORI	֓֞֝֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	2	•	ב כ		
Mailing Add	ress: 320 Gold	I Ave SW Suite	Mailing Address: 320 Gold Ave SW Suite 1300 Albuquerque, NM, 87102		•		-	3		M .			www.nalleliviloriinelilal.com	3	į				
					Gonzalez Dairy	airy	4	901 T	¥¥	ns NE	₹	endne	4901 Hawkins NE Albuquerque, NM 87109	Σ Σ	37109	m.			
-				Project #:				el. 5	35-3	Tel. 505-345-3975	5	Fax (	505-345-4107	15-41	07				- 1
Phone #:	#	505-715-4279	4279								Anal	ysis	Analysis Request	st					
email or Fax#:	r Fax#:	rmullen@	rmullen@eaest.com	Project Manager:	ger:		0 0			. •		٩.							
QA/QC	QA/QC Package:				Gina Mullen	·	130		•										
□ Standard	dard		☐ Level 4 (Full Validation)				ЮЧ			(				_					
Accreditation: □ NELAP	itation: AP	□ Other		Sampler: The On Ice:	Tustra Vessa OR Yes	S □	aM Aq		0.00	OW C									⊸(NLIO
	□ EDD (Type)			Sample Temp	Temperature: 6	38%			ε Α	01	•							70	ıı).
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	Nitrate/N	TKN SN	Chloride	NS SQT							r	1 1 1 C V	Adu& TiA
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-27-19	1400	A	Son Son	1 mg	19	2/28/6 9.45				٠.									
Date:	Time:	Relinquished by:	.kq pa	Received by:	•	Date Time													
				-						-									- 4
	If necessary,	samples sub	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	ontracted to other ac	credited laboratori	es. This serves as notice of th	s possibility	Anys	np-con	racted d	ata will t	e clearl	notated	on the	analyti	cal rep	ort.		



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 29, 2019

Regina Mullen
EA Engineering Alb
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Dominguez OrderNo.: 1903C75

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/27/2019 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued April 09, 2019.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

#### Lab Order 1903C75

Date Reported: 5/29/2019

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering Alb Client Sample ID: LRG-00590-5-6

Collection Date: 3/26/2019 11:18:00 AM **Project:** Dominguez 1903C75-001 Matrix: AQUEOUS Received Date: 3/27/2019 9:15:00 AM Lab ID:

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	420	50		mg/L	100	3/27/2019 8:15:20 PM	R58668
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/27/2019 8:02:56 PM	R58668
Nitrogen, Nitrate (As N)	2.0	1.0		mg/L	10	3/27/2019 8:02:56 PM	R58668
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	1640	20.0	*	mg/L	1	4/2/2019 4:10:00 PM	44020
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	4/6/2019 1:30:00 PM	44164

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 1 of 4

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903C75** 

29-May-19

Client:	EA Engineering Alb
<b>Project:</b>	Dominguez

Sample ID: MB	SampT	ype: <b>mb</b>	olk	Tes	tCode: El	PA Method	300.0: Anions	3		
Client ID: PBW	Batch	ID: <b>R5</b>	8668	F	RunNo: <b>5</b>	8668				
Prep Date:	Analysis D	ate: <b>3/</b> 2	27/2019	9	SeqNo: 1	971506	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								

Sample ID: LCS	SampT	ype: Ics	•	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID: LCSW	Batch	1D: <b>R5</b>	8668	F	RunNo: 5	8668				
Prep Date:	Analysis D	ate: 3/	27/2019	8	SeqNo: 1	971507	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	96.3	90	110			
Nitrogen, Nitrite (As N)	0.96	0.10	1.000	0	96.2	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	101	90	110			

Sample ID: LCS-d	SampT	ype: <b>LC</b>	SD	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: LCSS02	Batch	1D: <b>R5</b>	8668	F	RunNo: 5	8668				
Prep Date:	Analysis D	ate: 3/	27/2019	9	SeqNo: 19	971508	Units: mg/L			
Analyte	Result	PQL	CDI/l	CDIC D-4 V-I	2/ DEO	Land to the	1.15 - 1.1 2 - 26	0/ DDD	DDDI ::	01
Analyte	Resuit	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.8	LOWLIMIT 90	HighLimit 110	1.58	20	Quai
,							<u> </u>			Quai

Sample ID: 1903C75-001AMS	SampT	ype: <b>MS</b>	3	Test	tCode: El	PA Method	300.0: Anion	5		
Client ID: LRG-00590-5-6	Batch	ID: <b>R5</b>	8668	R	RunNo: 5	3668				
Prep Date:	Analysis D	ate: 3/	27/2019	S	SeqNo: 19	971523	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	8.9	1.0	10.00	0	88.6	82.4	108			
Nitrogen, Nitrate (As N)	26	1.0	25.00	1.961	96.3	79.1	116			

Sample ID: 1903C75-001AMSE	• SampT	ype: <b>MS</b>	SD	Tes	tCode: El	PA Method	300.0: Anions	6		
Client ID: LRG-00590-5-6	Batch	ID: <b>R5</b>	8668	F	RunNo: 5	8668				
Prep Date:	Analysis D	ate: 3/	27/2019	8	SeqNo: 19	971524	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	9.2	1.0	10.00	0	92.3	82.4	108	4.12	20	
Nitrogen, Nitrate (As N)	27	1.0	25.00	1.961	101	79.1	116	3.96	20	

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903C75** 

29-May-19

**Client:** EA Engineering Alb

**Project:** Dominguez

Sample ID: MB-44020 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 44020 RunNo: 58828

Prep Date: 4/1/2019 Analysis Date: 4/2/2019 SeqNo: 1977051 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-44020 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 44020 RunNo: 58828

Prep Date: 4/1/2019 Analysis Date: 4/2/2019 SeqNo: 1977052 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

Sample ID: 1903C75-001ADUP SampType: DUP TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LRG-00590-5-6 Batch ID: 44020 RunNo: 58828

Prep Date: 4/1/2019 Analysis Date: 4/2/2019 SeqNo: 1977059 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1630 20.0 0.672 10 \*

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 4

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903C75** 

29-May-19

**Client:** EA Engineering Alb

**Project:** Dominguez

Sample ID: MB-44164 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: **PBW** Batch ID: **44164** RunNo: **58953** 

Prep Date: 4/5/2019 Analysis Date: 4/6/2019 SeqNo: 1982658 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-44164 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 44164 RunNo: 58953

Prep Date: 4/5/2019 Analysis Date: 4/6/2019 SeqNo: 1982659 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 101 80 120

Sample ID: 1903C75-001AMS SampType: MS TestCode: SM 4500 Norg C: TKN

Client ID: LRG-00590-5-6 Batch ID: 44164 RunNo: 58953

Prep Date: 4/5/2019 Analysis Date: 4/6/2019 SeqNo: 1982669 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 101 75 125

Sample ID: 1903C75-001AMSD SampType: MSD TestCode: SM 4500 Norg C: TKN

Client ID: LRG-00590-5-6 Batch ID: 44164 RunNo: 58953

Prep Date: 4/5/2019 Analysis Date: 4/6/2019 SeqNo: 1982670 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 101 75 125 0 20

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 4



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

## Sample Log-In Check List

Cli	ent Name:	EA Engine	ering Alb	Work	Order Num	ber: 1903C75		RcptN	lo: 1
Red	ceived By:	Yazmine (	Garduno	3/27/20	19 9:15:00	AM	njayain left	dut.	
	npleted By:	Erin Melei	ndrez	3/27/20 3/2	19 10:33:36 7/1 <b>9</b>	B AM	rfagin life	6	
U	3 DAS	3/2	7/19						
Cha	in of Cust	tody							
1. 1	s Chain of Cu	stody comp	lete?			Yes 🗹	No [	Not Present	
2. H	low was the	sample deliv	ered?			FedEx			
Lo	g In								
3. v	Vas an attem	pt made to o	cool the samp	les?		Yes 🗹	No [	NA 🗆	
4. V	Vere all samp	les received	at a tempera	ture of >0° C t	o 6.0°C	Yes 🗹	No 🗆	NA 🗆	
5. s	sample(s) in p	roper contai	ner(s)?			Yes 🗹	No 🗆	1	
6. s	ufficient sam	ple volume fo	or indicated te	est(s)?		Yes 🗸	No 🗌		
				perly preserve	d?	Yes 🗸	No 🗌		
	las preservat			• • • • •		Yes 🗌	No 🗹	NA 🗆	
9. v	OA vials have	e zero heads	pace?			Yes	No 🗌	No VOA Vials	
10. V	Vere any sam	ple containe	ers received b	roken?		Yes 🗆	No 🗸	# of preserved	
	oes paperwo			n .		Yes 🗹	No 🗆	bottles checked for pH:	or >12 unless noted)
	(Note discrepancies on chain of custody)  2. Are matrices correctly identified on Chain of Custody?					Yes 🗹	No 🗌	Adjusted?	NO
	3. Is it clear what analyses were requested?					Yes 🗸	No 🗌		•
	14. Were all holding times able to be met? (If no, notify customer for authorization.)					Yes 🗸	No 🗆	Checked by:	DAD 3/27/19
	ial Handli								
				vith this order?		Yes 🗌	No [	NA ☑	
Section of the sectio	Person I	Notified:	PHONE PRODUCTION AND ADDRESS OF THE PERSON	-	Date			<b>-</b>	
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Project Name:   Project Name		1		图 Standard	□ Rush			AA	VALYSIS LABORATO	DRY
Time   Matrix   Sample   Request ID   Type and # Type   Type   The Container   Type and # Type   T				Project Name			類	*	w hallenvironmental com	
Tel. 506-345-3975   Fax 506-345-34107	ddress: 320 Gol	d Ave SW Suite	1300 Albuquerque, NM, 87102		Domniguez		4901 F	lawkins	NE - Albuquerque NM 87109	
Project Manager:   Class				Project #:			Tel. 5	5-345-	3975 Fax 505-345-4107	
Project Manager.   Clavel 4 (Full Validation)   Project Manager.   Clavel 4 (Full Validation)   Clave	e#:	505-715	4279						na	
Time   Matrix   Sample   Request ID   Type and #   Type   Total   Tot	or Fax#:	rmullen	,	Project Manag	er:		0.0			
Time   Matrix   Sample Request ID   Sample Temperature   Matrix   Sample Request ID   Type and # Type   Container   Preservative   Fall No.   Container   Preservative   Container   Preservative   P	C Package:				Sina Mullen		300			
Time   Matrix   Sample Request ID   Type and #   Type   Time   Time   Matrix   Sample Request ID   Type and #   Type   Time   Time   Matrix   Sample Request ID   Type and #   Type   Type   Time	andard		☐ Level 4 (Full Validation)	/						ì
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 19, 2019

Regina Mullen
EA Engineering Alb
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Gonzalez Dairy OrderNo.: 1903024

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/1/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

# Analytical Report Lab Order 1903024

Date Reported: 3/19/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: LRG-05351-5

**Project:** Gonzalez Dairy
 Collection Date: 2/28/2019 8:24:00 AM

 **Lab ID:** 1903024-001
 Matrix: AQUEOUS
 Received Date: 3/1/2019 8:53:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	460	50	mg/L	100	3/1/2019 6:23:52 PM	R58078
Nitrogen, Nitrite (As N)	ND	1.0	mg/L	10	3/1/2019 6:11:00 PM	R58078
Nitrogen, Nitrate (As N)	3.4	1.0	mg/L	10	3/1/2019 6:11:00 PM	R58078
SM2540C MOD: TOTAL DISSOLVED SOLIDS					Analyst	:: CJS
Total Dissolved Solids	1760	20.0	* mg/L	1	3/8/2019 9:35:00 AM	43522
SM 4500 NORG C: TKN					Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1	3/7/2019 2:00:00 PM	43543

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank		
	D	Sample Diluted Due to Matrix	E	Value above quantitation range		
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 4		
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range		
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit		
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified		

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903024** 

19-Mar-19

Client: EA Engineering Alb
Project: Gonzalez Dairy

Sample ID: MB SampType: mblk TestCode: EPA Method 300.0: Anions
Client ID: PBW Batch ID: R58078 RunNo: 58078

Prep Date: Analysis Date: 3/1/2019 SeqNo: 1946868 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Chloride
 ND
 0.50

 Nitrogen, Nitrite (As N)
 ND
 0.10

 Nitrogen, Nitrate (As N)
 ND
 0.10

Sample ID: LCS SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R58078 RunNo: 58078

Prep Date: Analysis Date: 3/1/2019 SeqNo: 1946869 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.50 5.000 0 97.0 90 Chloride 4.8 110 Nitrogen, Nitrite (As N) 1.0 0.10 1.000 0 99.5 90 110 0 Nitrogen, Nitrate (As N) 2.6 0.10 2.500 102 90 110

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 2 of 4

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1903024

19-Mar-19

Client: EA Engineering Alb
Project: Gonzalez Dairy

Sample ID: MB-43522 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43522 RunNo: 58224

Prep Date: 3/5/2019 Analysis Date: 3/8/2019 SeqNo: 1953005 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43522 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43522 RunNo: 58224

Prep Date: 3/5/2019 Analysis Date: 3/8/2019 SeqNo: 1953006 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1000 20.0 1000 0 100 80 120

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 3 of 4

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903024** 

19-Mar-19

Client: EA Engineering Alb
Project: Gonzalez Dairy

Sample ID: MB-43543 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43543 RunNo: 58218

Prep Date: 3/6/2019 Analysis Date: 3/7/2019 SeqNo: 1952830 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43543 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43543 RunNo: 58218

Prep Date: 3/6/2019 Analysis Date: 3/7/2019 SeqNo: 1952831 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 101 80 120

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 4 of 4



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name:	EA Engineering Alb	Work Order Numb	er: 1903024		RcptNo:	1
Received By:	Yazmine Garduno	3/1/2019 8:53:00 AM	1	Nazmon liffeduri		
Completed By:	Victoria Zellar	3/1/2019 10:23:49 A	.M	Victoria Rell	lani 11.01	
Reviewed By: \	1423/1/19				'Labella 12	4
·	- 9/1/1-1				labelled lo	V
Chain of Cus	stody				5/1/(-	7
	ustody complete?		Yes 🗹	No 🗌	Not Present	4
2. How was the	sample delivered?		<u>FedEx</u>			
Log In						
	npt made to cool the sample	s?	Yes 🗸	No 🗌	NA 🗆	
4. Were all sam	ples received at a temperatu	re of >0° C to 6.0°C	Yes 🗸	No 🗌	NA $\square$	
5 Sample(e) in	proper container(s)?		Yes 🗸	No 🗆		
o. Sample(s) in	proper container(s)?		Yes <u>₩</u>	NO L		
6. Sufficient san	nple volume for indicated tes	t(s)?	Yes 🗸	No 🗌		
7. Are samples (	except VOA and ONG) prop	erly preserved?	Yes 🗸	No 🗆		
8. Was preserva	tive added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. VOA vials hav	/e zero headspace?		Yes 🗌	No 🗌	No VOA Vials ✔	
10. Were any sar	mple containers received bro	ken?	Yes	No 🗹	-17741.	
					# of preserved bottles checked ,	
	ork match bottle labels?		Yes 🗸	No 🗆	for pH:	<del></del>
	ancies on chain of custody)	of Custodia	V [2]	No 🗆	Adjusted? N	12 unless noted)
	correctly identified on Chain tanalyses were requested?	or Custody?	Yes ⊻ Yes ⊻	No □ □	<u></u>	<u></u>
	ng times able to be met?		Yes 🗹	No 🗆	Checked by: D/	40 3/1/19
	ustomer for authorization.)					
Special Handi	ling (if applicable)					
15. Was client no	otified of all discrepancies wi	th this order?	Yes 🗌	No 🗌	NA 🗹	
Person	Notified:	Date				
By Who	om:	Via:	' □ eMail □ F	Phone   Fax	In Person	
Regard	ing:					
Client I	nstructions:					
16. Additional re	marks:					
17. <u>Cooler Info</u>	rmation					
Cooler No	the state of the s	Seal Intact   Seal No	Seal Date	Signed By		
1	0.8 Good	Yes	8 32 33 . 3			



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 20, 2019

Regina Mullen
EA Engineering Alb
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Mountain View Dairy LLC OrderNo.: 1902A65

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/26/2019 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued March 12, 2019.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

#### Lab Order **1902A65**

Date Reported: 5/20/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: LRG-00952

Project:Mountain View Dairy LLCCollection Date: 2/25/2019 11:55:00 AMLab ID:1902A65-001Matrix: AQUEOUSReceived Date: 2/26/2019 8:50:00 AM

**Analyses** Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 760 50 mg/L 100 2/26/2019 2:45:33 PM R57967 Nitrogen, Nitrite (As N) ND 1.0 mg/L 2/26/2019 2:32:41 PM R57967 Nitrogen, Nitrate (As N) R57967 3.6 1.0 mg/L 2/26/2019 2:32:41 PM SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS **Total Dissolved Solids** 2330 20.0 3/3/2019 6:56:00 PM 43445 mg/L 1 SM 4500 NORG C: TKN Analyst: OG ND 3/4/2019 5:00:00 PM 43460 Nitrogen, Kjeldahl, Total 1.0 mg/L

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1902A65** 

20-May-19

Client: EA Engineering Alb
Project: Mountain View Dairy LLC

Sample ID: MB SampType: mblk TestCode: EPA Method 300.0: Anions PBW Client ID: Batch ID: **R57967** RunNo: 57967 Prep Date: Analysis Date: 2/26/2019 SeqNo: 1941276 Units: mg/L Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Chloride ND 0.50 Nitrogen, Nitrite (As N) ND 0.10 Nitrogen, Nitrate (As N) ND 0.10

Sample ID: LCS SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: **R57967** RunNo: 57967 Prep Date: Analysis Date: 2/26/2019 SeqNo: 1941277 Units: mg/L SPK value SPK Ref Val %REC %RPD Analyte Result PQL LowLimit HighLimit **RPDLimit** Qual Chloride 0.50 5.000 0 93.8 90 110 4.7 Nitrogen, Nitrite (As N) 0.95 0.10 1.000 0 94.9 90 110 0 98.7 Nitrogen, Nitrate (As N) 2.5 0.10 2.500 90 110

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1902A65

20-May-19

Client: EA Engineering Alb

**Project:** Mountain View Dairy LLC

Sample ID: MB-43445 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43445 RunNo: 58064

Prep Date: 3/1/2019 Analysis Date: 3/3/2019 SeqNo: 1945938 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43445 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43445 RunNo: 58064

Prep Date: 3/1/2019 Analysis Date: 3/3/2019 SeqNo: 1945939 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1902A65** 

20-May-19

Client: EA Engineering Alb

**Project:** Mountain View Dairy LLC

Sample ID: MB-43460 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43460 RunNo: 58101

Prep Date: 3/1/2019 Analysis Date: 3/4/2019 SeqNo: 1947962 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43460 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43460 RunNo: 58101

Prep Date: 3/1/2019 Analysis Date: 3/4/2019 SeqNo: 1947963 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 104 80 120

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **EA Engineering Alb** Work Order Number: 1902A65 RcptNo: 1 Received By: Leah Baca 2/26/2019 8:50:00 AM Completed By: Isaiah Ortiz 2/26/2019 9:06:22 AM Reviewed By: DAD 2-26-19 Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗹 No 🗌 NA 🗌 Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗸 NA 🗌 Sample(s) in proper container(s)? No 🗆 Yes 🗸 Sufficient sample volume for indicated test(s)? No 🗌 Yes 7. Are samples (except VOA and ONG) properly preserved? No 🗌 8. Was preservative added to bottles? No V NA 🗌 Yes 9. VOA vials have zero headspace? No VOA Vials No 🗌 10. Were any sample containers received broken? No V # of preserved bottles checked 11. Does paperwork match bottle labels? No 🗌 for pH: (Note discrepancies on chain of custody) or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? No 🗌 Yes V 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 Checked by: 7MM 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes 🗌 No NA V Person Notified: Date: By Whom: eMail Phone Fax In Person Regarding: Client Instructions: Additional remarks: 17. Cooler Information Cooler No. | Temp °C | Condition | Seal Intact | Seal No. | Seal Date | Signed By 0.1 Good Yes

J	hain	PO-CU	Chain-of-Custody Record	I um-Around Lime.						4	l.	Thursday.	Ě	- 6	1			
Client	EA Engi	neering, Scik	Client. EA Engineering, Science, and Technology	□ Standard	□ Rush	2	J	V	LQ		1 =		Y -	HALL ENVIKONMENTAL ANALYSTS LARORATORY			A S	
				Project Name:					i	www	naller	vironr	www.hallenvironmental.com	Com		) -		
Mailing Add	ress: 320 Gol	Id Ave SW Suite	Mailing Address: 320 Gold Ave SW Suite 1300 Albuquerque, NM, 87102		Mountain View Dairy	ew Dairy	4	901	lawk	IS N	Α -	pndni	erque,	4901 Hawkins NE - Albuquerque, NM 87109	7109			4
		¥		Project #:			Г	el. 5	05-34	5-397	2	Fax	505-3	Tel. 505-345-3975 Fax 505-345-4107	2			
Phone #:	#	505-715-4279	4279								Апа	lysis	Analysis Request	st				
email or Fax#:	r Fax#:	rmullen@	rmullen@eaest.com	Project Manager.	jer.		0.0		+	•	e e							
QA/QC	QA/QC Package:				Gina Mullen		90											
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO 1902M6S	JiM/atentiN	TKN SM 4	Chloride E	TDS SM 2	Sulfate EF	Phosphoru	Jilu2 IstoT					Air Bubble
2-25-19	11.55	3	465-00 452 Br	7		100-	X	×	X	×			-				-	
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 18, 2019

Regina Mullen
EA Engineering Alb
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX:

RE: Mountain View Dairy OrderNo.: 1902B25

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 6 sample(s) on 2/27/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

# Lab Order **1902B25**Date Reported: **3/18/2019**

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: LRG-00457 Pivot

Project: Mountain View Dairy

Lab ID: 1902B25-001

Matrix: AQUEOUS

Collection Date: 2/26/2019 10:13:00 AM

Received Date: 2/27/2019 8:50:00 AM

**Analyses** Result **RL Qual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 100 2/27/2019 3:40:58 PM R58009 1400 50 mg/L Nitrogen, Nitrite (As N) ND 1.0 mg/L 10 2/27/2019 3:28:06 PM R58009 Nitrogen, Nitrate (As N) 2/27/2019 3:28:06 PM R58009 11 1.0 mg/L SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS **Total Dissolved Solids** 3890 20.0 mg/L 1 3/3/2019 7:24:00 PM 43448 SM 4500 NORG C: TKN Analyst: **OG** Nitrogen, Kjeldahl, Total ND 3/5/2019 11:00:00 AM 2.0 D mg/L 43461

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 9
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL Practical Quanitative Limit			Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND PQL	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

# Lab Order **1902B25**Date Reported: **3/18/2019**

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: LRG-00457-S-Flood

Project:Mountain View DairyCollection Date: 2/26/2019 10:22:00 AMLab ID:1902B25-002Matrix: AQUEOUSReceived Date: 2/27/2019 8:50:00 AM

Analyses	Result	RL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: <b>smb</b>
Nitrogen, Nitrite (As N)	ND	1.0	mg/L	10	2/27/2019 3:53:50 PM	R58009
Nitrogen, Nitrate (As N)	2.3	1.0	mg/L	10	2/27/2019 3:53:50 PM	R58009
SM 4500 NORG C: TKN					Analys	t: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1	3/5/2019 11:00:00 AM	43461

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	Е	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 9
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL Practical Quanitative Limit			Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

# Lab Order **1902B25**Date Reported: **3/18/2019**

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 70-01

Project:Mountain View DairyCollection Date: 2/26/2019 12:58:00 PMLab ID:1902B25-003Matrix: AQUEOUSReceived Date: 2/27/2019 8:50:00 AM

**Analyses** Result **RL Qual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 100 2/27/2019 4:58:08 PM R58009 840 50 mg/L Nitrogen, Nitrite (As N) ND 1.0 mg/L 2/27/2019 4:45:17 PM R58009 Nitrogen, Nitrate (As N) 1.0 2/27/2019 4:45:17 PM R58009 33 mg/L 670 50 100 2/27/2019 4:58:08 PM R58009 mg/L **SM2540C MOD: TOTAL DISSOLVED SOLIDS** Analyst: KS **Total Dissolved Solids** 3/3/2019 7:24:00 PM 3390 20.0 mg/L 43448 SM 4500 NORG C: TKN Analyst: **OG** Nitrogen, Kjeldahl, Total ND 5.0 D mg/L 3/5/2019 11:00:00 AM 43461

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	Е	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 9
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL Practical Quanitative Limit			Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

# **Analytical Report**Lab Order **1902B25**

Date Reported: 3/18/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 70-02

Project:Mountain View DairyCollection Date: 2/26/2019 11:14:00 AMLab ID:1902B25-004Matrix: AQUEOUSReceived Date: 2/27/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	780	50		mg/L	100	2/27/2019 5:23:52 PM	R58009
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/27/2019 5:11:01 PM	R58009
Nitrogen, Nitrate (As N)	32	1.0	*	mg/L	10	2/27/2019 5:11:01 PM	R58009
Sulfate	500	5.0		mg/L	10	2/27/2019 5:11:01 PM	R58009
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	KS
Total Dissolved Solids	3030	20.0	*	mg/L	1	3/3/2019 7:24:00 PM	43448
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/5/2019 11:00:00 AM	43461

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 9
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL Practical Quanitative Limit			Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

# **Analytical Report**Lab Order **1902B25**

## Date Reported: 3/18/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 70-03

Project:Mountain View DairyCollection Date: 2/26/2019 9:51:00 AMLab ID:1902B25-005Matrix: AQUEOUSReceived Date: 2/27/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	3000	100		mg/L	200	3/6/2019 12:19:22 AM	R58153
Nitrogen, Nitrite (As N)	1.2	1.0		mg/L	10	2/27/2019 5:36:44 PM	R58009
Nitrogen, Nitrate (As N)	51	1.0	*	mg/L	10	2/27/2019 5:36:44 PM	R58009
Sulfate	1300	50		mg/L	100	2/27/2019 5:49:37 PM	R58009
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: KS
Total Dissolved Solids	7320	20.0	*	mg/L	1	3/3/2019 7:24:00 PM	43448
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/5/2019 11:00:00 AM	43461

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	Е	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 9
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL Practical Quanitative Limit			Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

# Analytical Report Lab Order 1902B25

## Date Reported: 3/18/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 70-04

Project:Mountain View DairyCollection Date: 2/26/2019 12:22:00 PMLab ID:1902B25-006Matrix: AQUEOUSReceived Date: 2/27/2019 8:50:00 AM

**Analyses** Result **RL Qual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 100 2/27/2019 6:15:21 PM R58009 720 50 mg/L Nitrogen, Nitrite (As N) ND 1.0 mg/L 2/27/2019 6:02:29 PM R58009 Nitrogen, Nitrate (As N) 25 1.0 2/27/2019 6:02:29 PM R58009 mg/L 570 50 100 2/27/2019 6:15:21 PM R58009 mg/L **SM2540C MOD: TOTAL DISSOLVED SOLIDS** Analyst: KS **Total Dissolved Solids** 3/3/2019 7:24:00 PM 3020 \*D mg/L 43448 100 SM 4500 NORG C: TKN Analyst: **OG** Nitrogen, Kjeldahl, Total ND 5.0 D mg/L 3/5/2019 11:00:00 AM 43461

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	Е	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 9
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL Practical Quanitative Limit			Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1902B25

18-Mar-19

Client:	EA Engineering All	b								
Project:	Mountain View Dai	iry								
Sample ID: MB	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	300.0: Anions	<b>S</b>		
Client ID: PBW	Batch	n ID: <b>R5</b>	8009	F	tunNo: 5	8009				
Prep Date:	Analysis D	Date: 2/	27/2019	S	SeqNo: 1	942433	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								
Sample ID: LCS	SampT	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	300.0: Anions	S		
Client ID: LCSW	Batch	n ID: <b>R5</b>	8009	F	tunNo: 5	8009				
Prep Date:	Analysis D	Date: 2/	27/2019	S	SeqNo: 1	942434	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.5	0.50	5.000	0	90.9	90	110			
Nitrogen, Nitrite (As N)	0.92	0.10	1.000	0	91.9	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	95.8	90	110			
Sulfate	9.6	0.50	10.00	0	95.5	90	110			
Sample ID: MB	SampT	ype: <b>m</b> k	olk	Tes	tCode: El	PA Method	300.0: Anions	S		
Client ID: PBW	Batch	n ID: <b>R5</b>	8153	F	tunNo: 5	8153				
Prep Date:	Analysis D	Date: 3/	6/2019	S	SeqNo: 1	950327	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sample ID: LCS	SampT	ype: <b>Ics</b>	3	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID: LCSW	Batch	n ID: <b>R5</b>	8153	F	tunNo: 5	8153				
Prep Date:	Analysis D			_	SeqNo: 19		Units: mg/L			

SPK value SPK Ref Val

5.000

#### Qualifiers:

Analyte

Chloride

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Η Holding times for preparation or analysis exceeded

Result

0.50

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

Value above quantitation range

%REC

LowLimit

HighLimit

%RPD

**RPDLimit** 

Qual

J Analyte detected below quantitation limits

Page 7 of 9

P Sample pH Not In Range

Reporting Detection Limit RL

Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1902B25

18-Mar-19

**Client:** EA Engineering Alb **Project:** Mountain View Dairy

Sample ID: MB-43448 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43448 RunNo: 58065

Prep Date: 3/1/2019 Analysis Date: 3/3/2019 SeqNo: 1945962 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43448 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43448 RunNo: 58065

Prep Date: 3/1/2019 Analysis Date: 3/3/2019 SeqNo: 1945963 Units: mg/L

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte **PQL** Qual

**Total Dissolved Solids** 1020 20.0 1000 0 102 80 120

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Η

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Reporting Detection Limit

P Sample pH Not In Range

RL

Sample container temperature is out of limit as specified

Page 8 of 9

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1902B25

18-Mar-19

Client: EA Engineering Alb
Project: Mountain View Dairy

Sample ID: MB-43461 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43461 RunNo: 58137

Prep Date: 3/1/2019 Analysis Date: 3/5/2019 SeqNo: 1949479 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43461 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43461 RunNo: 58137

Prep Date: 3/1/2019 Analysis Date: 3/5/2019 SeqNo: 1949480 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 104 80 120

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

D C 1 HN 1 D

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 9 of 9



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name:	EA Engineer	ring Alb	Work Or	der Number	: 190	2B25			RcptNo:	1
									<b>1</b>	
Received By:	Isaiah Ortiz	!	2/27/2019	8:50:00 AM			<sub>emb</sub>	C	4	
Completed By:	Isaiah Ortiz	-	2/27/2019				:7		24	
	ENM		2/27/6	1						
Chain of Cus	DAD 2/3	27/19								
1. Is Chain of C	ustody comple	te?			Yes	V	N	<b></b>	Not Present	
2. How was the	sample delive	red?			Fedi	<u> </u>				
<u>Log In</u>										
3. Was an atten	npt made to co	ol the samples?			Yes	<b>V</b>	No		NA 🗆	
4. Were all sam	ples received a	at a temperature o	f>0°C to 6	.0°C	Yes	<b>7</b>	No	<b>□</b>	NA 🗀	
	•									
5. Sample(s) in	proper contain	er(s)?			Yes	✓	No	<b>,</b> ∐		
6. Sufficient sam	nple volume for	rindicated test(s)?	?		Yes	V	No			
7, Are samples (	(except VOA a	nd ONG) properly	preserved?		Yes	<b>✓</b>	No			
8. Was preserva	itive added to b	oottles?			Yes		No	<b>V</b>	NA 🗆	
9. VOA vials hav	/e zero headsp	ace?			Yes		No		No VOA Vials <b>✓</b>	
10. Were any sar	mple containers	s received broken	?		Yes		No	<b>V</b>		N. 18
									# of preserved bottles checked	e
11. Does paperwo	ork match bottl ancies on chair				Yes	✓	No		for pH: (	>12 unless noted)
12. Are matrices of			ustody?		Yes	<b>V</b>	No			VO
13. Is it clear wha					Yes	<b>V</b>			<u> </u>	
14. Were all holdi						✓	No		Checked by: D	AD 2/27/19
(If no, notify co	ustomer for au	thorization.)						!		
Special Handl	ling (if appl	icable)								
15. Was client no	otified of all dise	crepancies with th	is order?		Yes		No	, [	NA 🗹	
Person	Notified:			Date:						
By Who	om:			Via:	eM	ail 🗀	] Phone [	Fax	In Person	
Regard	ing:									
Client II	nstructions:			· · · · · · · · · · · · · · · · · · ·						
16. Additional re	marks:						<del> </del>			ı
17. Cooler Infor	<u>rmation</u>									
Cooler No		Gondition Sea	al Intact S	eal No 🕒 S	Seal D	ate	Signed	Ву		
1	0.0	Good Yes								

O	hain	of-Cu	Chain-of-Custody Record	Turn-Around Time:	Time:				2	<	Ī	MATE	LAIL ENVIDONMENTA	-	
Client:	1000	neering, Sci	EA Engineering, Science, and Technology	政 Standard	□ Rush		<u></u>	V	•	Z	ANALYSIS	SIAIS	LABORATORY	ORY	
				Project Name:	ai			90		ww.	allenviro	www.hallenvironmental.com	ш		
Mailing Add	iress: 320 Golk	d Ave SW Suite	Mailing Address: 320 Gold Ave SW Suite 1300 Albuquarque, NM, 87102		Mountain View Dairy	ew Dairy	4	301 F	lawki	IS NE	- Albuq	4901 Hawkins NE - Albuquerque, NM 87109	M 87109		
				Project #;				el. 5	5-34	Tel. 505-345-3975	5 Fax	Fax 505-345-4107	4107		
Phone #:	#	505-715-4279	-4279								Analysi	Analysis Request			77.7
email o	email or Fax#:	rmullen@	rmullen@eaest.com	Project Manager:	iger:		0.0								
QA/QC Packa	QA/QC Package:		☐ Level 4 (Full Validation)		Gina Mullen		08 bort			-	ac				
Accreditation:	itation: AP	□ Other		Sampler: Ju On Ice:	Justin Vesque	rez □ No	∍M Aq		0.00	000000		V.60 V		(1/1)	(NI JO
O ED	□ EDD (Type)				Temperature: (	2.Q.C	3 91		ε Α.		365.75			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(1)
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	Nitrate/Nitri	TKN SM 45	Chloride EP	TDS SM 25	Sulfate EPA	Phosphorus Total Sulfur		səlddu8 viA	Air Bubbles
61-n-1	1013	3	LR6-coust Pivot	Ч		- 8	×	X	Ŋ	×					
-	1022	-	. 1	2		- 80 2	8	×	X	X					
	1258		10.02	7		500-	X	X	×	×			0 -	83	
	11:14		79-02	7		-00¢	K	X	×	×					
-	15.6	_	70-03	ы		-005	×	X	×	×	200.0				
-	12:25	4	40.01	7		990-	X	X	×	×					
								$\perp$		+					
										+					
Date:	Time.	Relinquished by	ed by	Received by:	2 xycz	61	Remarks:	- CO. C	the	Je - 2.	per Justin	57 July 100.			
Date:	Time:	Relinquished by:	ed by:	Received by:		Date Time	500	44	Jun 66.15 1.4	2	6	g 2/28/19	6.		
	If necessary	r, samples sur	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	contracted to other a	occedited laboratori	es. This serves as notice of thi	s possibility	Anys	np-cou	racted d	ata will be cle	arly notated o	n the analytical repo	ort.	



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 06, 2019

Regina Mullen
EA Engineering Alb
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Organ Dairy OrderNo.: 1902B28

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/27/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1902B28**Date Reported: **3/6/2019** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb

Client Sample ID: Organ Irrigation Well

Project: Organ Dairy

Collection Date: 2/26/2019 11:51:00 A

**Project:** Organ Dairy
 Collection Date: 2/26/2019 11:51:00 AM

 **Lab ID:** 1902B28-001
 Matrix: AQUEOUS
 Received Date: 2/27/2019 8:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: <b>smb</b>
Nitrogen, Nitrate (As N)	ND	1.0	mg/L	10	2/27/2019 6:28:13 PM	R58009
SM 4500 NORG C: TKN					Analys	st: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1	3/5/2019 11:00:00 AM	43461

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 3
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1902B28

06-Mar-19

Client: EA Engineering Alb

**Project:** Organ Dairy

Sample ID: MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R58009 RunNo: 58009

Prep Date: Analysis Date: 2/27/2019 SeqNo: 1942433 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Nitrate (As N) ND 0.10

Sample ID: LCS SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R58009 RunNo: 58009

Prep Date: Analysis Date: 2/27/2019 SeqNo: 1942434 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Nitrate (As N) 2.4 0.10 2.500 0 95.8 90 110

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 2 of 3

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1902B28** 

06-Mar-19

Client: EA Engineering Alb

**Project:** Organ Dairy

Sample ID: MB-43461 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: **PBW** Batch ID: **43461** RunNo: **58137** 

Prep Date: 3/1/2019 Analysis Date: 3/5/2019 SeqNo: 1949479 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43461 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43461 RunNo: 58137

Prep Date: 3/1/2019 Analysis Date: 3/5/2019 SeqNo: 1949480 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 104 80 120

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 3 of 3



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3075 FAV: 505-345-4107

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: EA Engineering Alb	Work Order Nui	mber: 1902B28	<u>.</u>	RcptNo: 1
Received By: Isaiah Ortiz	2/27/2019 8:50:00	O AM	エへの	4
Completed By: Isaiah Ortiz	2/27/2019 9:34:07	7 AM	エ、ひ	4
Reviewed By:	2/27/19			,
CB: DAD Z/Z7/19 Chain of Custody				
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present
2. How was the sample delivered?		<u>FedEx</u>		
Log In				
Was an attempt made to cool the sample	s?	Yes 🗹	No 🗌	NA 🗆
4. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗌	NA $\square$
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗌	
6. Sufficient sample volume for indicated tes	t(s)?	Yes 🗹	No 🗆	
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗌	
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗆
9. VOA vials have zero headspace?		Yes 🗌	No 🗆	No VOA Vials 🗹
10. Were any sample containers received bro	ken?	Yes 🗌	No 🗹	# of preserved bottles checked
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	for pH:  (£2 or >12 unless noted)
12. Are matrices correctly identified on Chain	of Custody?	Yes 🗹	No 🗌	Adjusted? No
13. Is it clear what analyses were requested?		Yes 🗹	No 🗆	
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by: DAD Z/Z7//9
Special Handling (if applicable)				
15. Was client notified of all discrepancies with	th this order?	Yes 🗌	No 🗌	na 🗹
Person Notified:	Dat	e: <b>[</b>		
By Whom:	Via:	: eMail	Phone 🗌 Fax	In Person
Regarding:				Management of the second of th
Client Instructions:				and and a second a se
16. Additional remarks:				
17. Cooler Information  Cooler No Temp °C Condition  1 0.0 Good	Seal Intact Seal No res	Seal Date	Signed By	

HEAL No001  -001  Date Time  19 (2085)  Date Time	Jard   Rush   Corgan Dairy   Organ Dairy   O	tandard   Rush   Set Name:  Organ Dairy  organ Dairy  ect #:  Gina Mullen  Type   Type   Type   Column   Type   Column   Column
---	--	--



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 09, 2019

Regina Mullen
EA Engineering Alb
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX:

RE: Dominguez 2 OrderNo.: 1903C78

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/27/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

#### Lab Order 1903C78

Date Reported: 4/9/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: LRG-956

**Project:** Dominguez 2
 Collection Date: 3/26/2019 11:34:00 AM

 **Lab ID:** 1903C78-001
 Matrix: AQUEOUS
 Received Date: 3/27/2019 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: smb
Chloride	1200	50		mg/L	100	3/27/2019 10:26:58 PM	R58708
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/27/2019 10:14:07 PM	R58708
Nitrogen, Nitrate (As N)	13	1.0	*	mg/L	10	3/27/2019 10:14:07 PM	R58708
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	3700	20.0	*	mg/L	1	4/2/2019 4:10:00 PM	44020
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	4/6/2019 1:30:00 PM	44164

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode
- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903C78** 

09-Apr-19

**Client:** EA Engineering Alb

**Project:** Dominguez 2

Sample ID: MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBW** Batch ID: **R58708** RunNo: **58708** 

Prep Date: Analysis Date: 3/27/2019 SeqNo: 1971983 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Chloride
 ND
 0.50

 Nitrogen, Nitrite (As N)
 ND
 0.10

 Nitrogen, Nitrate (As N)
 ND
 0.10

Sample ID: LCS SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: **R58708** RunNo: 58708 Prep Date: Analysis Date: 3/27/2019 SeqNo: 1971984 Units: mg/L SPK value SPK Ref Val %RFC Lowl imit Analyta Pacult Highl imit %PPD **PPDI** imit Qual

Allalyte	Nesult	I QL	of it value	of Killer var	/OINEC	LOWLIIIII	riigiiLiiiii	/01X1 D	IXI DEIIIII	Q
Chloride	4.6	0.50	5.000	0	92.8	90	110			
Nitrogen, Nitrite (As N)	0.92	0.10	1.000	0	92.1	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	97.2	90	110			
	Chloride Nitrogen, Nitrite (As N)	Chloride         4.6           Nitrogen, Nitrite (As N)         0.92	Chloride         4.6         0.50           Nitrogen, Nitrite (As N)         0.92         0.10	Chloride         4.6         0.50         5.000           Nitrogen, Nitrite (As N)         0.92         0.10         1.000	Chloride         4.6         0.50         5.000         0           Nitrogen, Nitrite (As N)         0.92         0.10         1.000         0	Chloride         4.6         0.50         5.000         0         92.8           Nitrogen, Nitrite (As N)         0.92         0.10         1.000         0         92.1	Chloride         4.6         0.50         5.000         0         92.8         90           Nitrogen, Nitrite (As N)         0.92         0.10         1.000         0         92.1         90	Chloride         4.6         0.50         5.000         0         92.8         90         110           Nitrogen, Nitrite (As N)         0.92         0.10         1.000         0         92.1         90         110	Chloride       4.6       0.50       5.000       0       92.8       90       110         Nitrogen, Nitrite (As N)       0.92       0.10       1.000       0       92.1       90       110	Chloride       4.6       0.50       5.000       0       92.8       90       110         Nitrogen, Nitrite (As N)       0.92       0.10       1.000       0       92.1       90       110

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903C78** 

09-Apr-19

**Client:** EA Engineering Alb

**Project:** Dominguez 2

Sample ID: MB-44020 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 44020 RunNo: 58828

Prep Date: 4/1/2019 Analysis Date: 4/2/2019 SegNo: 1977051 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-44020 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 44020 RunNo: 58828

Prep Date: 4/1/2019 Analysis Date: 4/2/2019 SegNo: 1977052 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

Sample ID: 1903C78-001ADUP SampType: DUP TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LRG-956 Batch ID: 44020 RunNo: 58828

Prep Date: 4/1/2019 Analysis Date: 4/2/2019 SeqNo: 1977061 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 3680 20.0 0.542 10 \*

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit
W Sample container temperature is out of limit as specified at testcode

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903C78

09-Apr-19

Client: EA Engineering Alb

**Project:** Dominguez 2

Sample ID: MB-44164 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 44164 RunNo: 58953

Prep Date: 4/5/2019 Analysis Date: 4/6/2019 SeqNo: 1982658 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-44164 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 44164 RunNo: 58953

Prep Date: 4/5/2019 Analysis Date: 4/6/2019 SeqNo: 1982659 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 101 80 120

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name:	EA Engineering Alb	Work Order Num	ber: 190	3C78			RcptNo: 1
Received By:	Yazmine Garduno	3/27/2019 9:15:00	АМ		rfazmini lej	Andreti	
Completed By:	Erin Melendrez	3/27/2019 10:37:09	AM		spanin le	1	
Reviewed By:	FUM	3/27/19	120				
LB: DI	AD 3/77/19						
Chain of Cust	tody						
1. Is Chain of Cu	stody complete?		Yes	<b>V</b>	No [	Not Prese	ent 🗌
2. How was the	sample delivered?		Fed	<u>Ex</u>			
Log In							
	pt made to cool the samples	3?	Yes	<b>✓</b>	No [	N	NA 🗌
4. Were all samp	les received at a temperatur	re of >0° C to 6.0°C	Yes	<b>✓</b>	No [		NA 🗆
5. Sample(s) in p	proper container(s)?		Yes	<b>✓</b>	No [		
6. Sufficient samp	ple volume for indicated test	(s)?	Yes	<b>~</b>	No [	]	
7. Are samples (e	except VOA and ONG) prope	erly preserved?	Yes	<b>✓</b>	No 🗆	]	
8. Was preservat	ive added to bottles?		Yes		No 🗸	· NA	A 🗆
9. VOA vials have	e zero headspace?		Yes		No 🗆	No VOA Via	Is 🗸
10. Were any sam	ple containers received brol	ken?	Yes		No 🛚	# of preserve	ed.
11 Does nanenvoi	rk match bottle labels?		Yes		No 🗆	bottles check	
	ncies on chain of custody)		Yes	V	NO L	ј погрп.	(2 or >12 unless noted)
2. Are matrices co	orrectly identified on Chain o	of Custody?	Yes	<b>/</b>	No 🗆	Adjust	ed? No
	analyses were requested?		Yes	<b>✓</b>	No 🗆	]	
	g times able to be met? stomer for authorization.)		Yes	<b>V</b>	No 🗆	Checke	ed by: DAD 3/27/19
	ng (if applicable)						
	ified of all discrepancies wit	h this order?	Yes		No [		NA 🗹
Person I	Notified:	Date:	Г			-	
By Who	m:	Via:	eM	ail 🗌	Phone F	ax In Person	
Regardir	ng:						MANAGEMENT,
Client In	structions:				The second section of the second		distributions.
16. Additional ren	narks:						
17. Cooler Inform	nation						
Cooler No	Temp °C Condition	Seal Intact   Seal No	Seal D	ate	Signed By		
1	1.8 Good Y	es					

	ANALYSTS I ABORATORY	www hallenvironmental com	4901 Hawkins NF - Albuminters NM 87100		Inal		1300	С	MOD	C II	000 40	Mitrate/Nitrit TKN SM 456 Chloride EP TDS SM 254							Remarks:	Time: Relinquished by: Received by: Date Time Date Time Increase, Received by: Date Time Date Time Increase, sample submitted to Hall Environmental may be subcontracted to other accredited Jahoratories. This serves as notice of this possibility. Any subcontracted data will be clearly notated on the analytical report.
Turn-Around Time:	又 Standard □ Rush	Project Name:	Domniquez 2	Project #:		Project Manager:	Gina Mullen		r. Justin Vergue		Sample Temperature: 1.5%	Container Type and # Type   CORC 78	- 001						Received by:  Date Time Rel  TEDEY 3/21/14 9-15	Received by:  Date Time Trime This serves as notice of this noss
Chain-of-Custody Record	Client: EA Engineering, Science, and Technology		Mailing Address: 320 Gold Ave SW Suite 1300 Albuquerque, NM, 87102		Phone #: 505-715-4279	email or Fax#: rmullen@eaest.com	QA/QC Package:	☐ Standard ☐ Level 4 (Full Validation)		□ Other	□ EDD (Type)	Date Time Matrix Sample Request ID	3-26-19 1134 W LRG- 956						Date: Time: Relinquished by:	Date: Time: Relinquished by:



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 01, 2019

Regina Mullen
EA Engineering
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Del Oro OrderNo.: 1903733

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/15/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

#### Lab Order **1903733**

Date Reported: 4/1/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: Lagoon

 Project:
 Del Oro
 Collection Date: 3/14/2019 9:32:00 AM

 Lab ID:
 1903733-001
 Matrix: AQUEOUS
 Received Date: 3/15/2019 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: smb
Chloride	840	50		mg/L	100	3/15/2019 11:04:27 PM	1 R58427
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/15/2019 10:52:03 PM	1 R58427
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	3/15/2019 10:52:03 PM	1 R58427
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analys	t: KS
Total Dissolved Solids	6460	200	*D	mg/L	1	3/21/2019 4:01:00 PM	43789
SM 4500 NORG C: TKN						Analys	t: <b>OG</b>
Nitrogen, Kjeldahl, Total	920	10	D	mg/L	1	3/25/2019 3:30:00 PM	43845

- Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- W Sample container temperature is out of limit as specified at testcode

#### Lab Order **1903733**

Date Reported: 4/1/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: 692-05

 Project:
 Del Oro
 Collection Date: 3/14/2019 9:20:00 AM

 Lab ID:
 1903733-002
 Matrix: AQUEOUS
 Received Date: 3/15/2019 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF 1	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	410	50		mg/L	100	3/15/2019 11:29:17 PM	R58427
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/15/2019 11:16:52 PM	R58427
Nitrogen, Nitrate (As N)	12	1.0	*	mg/L	10	3/15/2019 11:16:52 PM	R58427
Sulfate	260	5.0		mg/L	10	3/15/2019 11:16:52 PM	R58427
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: KS
Total Dissolved Solids	1540	40.0	*D	mg/L	1	3/21/2019 4:01:00 PM	43789
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/25/2019 3:30:00 PM	43845

- Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- W Sample container temperature is out of limit as specified at testcode

## 1903733-001B LAGOON

# SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.

Collected date/time: 03/14/19 09:32

Metals (ICP) by Method 200.7

	Result	Qualifier	RDL	Dilution	Analysis	Batch	-
Analyte	mg/l		mg/I		date / time		
Sulfur	111		10.0	10	03/23/2019 11:22	WG1253517	























# WG1253517 Metals (ICP) by Method 200.7

QUALITY CONTROL SUMMARY

L1080042-01

Method Blank (MB)

MB RDL 1.00 MB MDL 0.220 l/gm MB Qualifier MB Result mg/l (MB) R3394117-1 03/22/19 05:15 Analyte Sulfur

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

SS

ONE LAB. NATIONWIDE.

U.

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	RPD Limits		
	RPD	96	20
	LCSD Qualifier RPD	96	0.764
	LCS Qualifier		
	Rec. Limits	96	85.0-115
	LCSD Rec.	96	102
	LCS Rec.	%	102
03/22/19 05:20	ult LCSD Result L	l/gm	10.2
R3394117-3	LCS Result	∥gm	10.2
2/19 05:17 • (LCSD)	Spike Amount LCS Result	mg/I	10.0
(LCS) R3394117-2 03/22/19 05:17 • (LCSD) R3394117-3 03/22/19 05:20		Analyte	Sulfur

L1080635-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1080635-01 03/22/19 05:23 • (MS) R3394117-5 03/22/19 05:2:	/19 05:23 · (MS)	R3394117-5 03	00	· (MSD) R3394117-6 03/22/19 05:31	17-6 03/22/19	05:31						
	Spike Amount	Spike Amount Original Result MS Result	MS Result	<b>MSD Result</b>	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	l/gm	mg/l	mg/l	l/gm	%	96		96			%	96
Sulfur	10.0	2.82	13.0	12.8	102	99.4	-	70.0-130			1.95	20

L1080635-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

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(OS) L1080635-02	05) L1080635-02 03/22/19 05:33 • (MS) R3394117-7 03/22/19 0	R3394117-7 0	13/22/19 05:36	05:36 • (MSD) R3394117-8 03/22/19 05:38	1117-8 03/22/	19 05:38						
	Spike Amount	Spike Amount Original Result MS Resu	MS Result	MSD Result MS Rec.	MS Rec.	MSD Rec.	Dilution	Dilution Rec. Limits	MS Qualifier	MSD Qualifier RPD	RPD	RPD Limits
Analyte	l/gm	Mg∕I	∥g/l	mg/I	%	96		%			96	96
Sulfur	10.0	2.86	13.3	13.3	104	104	<b>-</b>	70.0-130			6960.0	20

Hall Environmental Analysis Laboratory

ACCOUNT:

PROJECT:



#### Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.



#### Abbreviations and Definitions

Analyte

Dilution

Limits

Qualifier

Result

Uncertainty

Case Narrative (Cn)

Quality Control

Summary (Qc)

Sample Results (Sr)

Sample Summary (Ss)

Original Sample

MDL	Method Detection Limit.	
RDL	Reported Detection Limit.	
Rec.	Recovery.	
RPD	Relative Percent Difference.	



SDG Sample Delivery Group. U Not detected at the Reporting Limit (or MDL where applicable).





The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes



If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the



result reported has already been corrected for this factor. These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or



duplicated within these ranges. The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control



sample. The Original Sample may not be included within the reported SDG. This column provides a letter and/or number designation that corresponds to additional information concerning the result



reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable

The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL"

(Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte

Confidence level of 2 sigma. (Radiochemistry)

A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.

This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.

This is the document created in the field when your samples were initially collected. This is used to verify the time and Sample Chain of date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This Custody (Sc) samples from the time of collection until delivery to the laboratory for analysis.

chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for

each sample will provide the name and method number for the analysis reported. This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and

times of preparation and/or analysis

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903733** 

01-Apr-19

Client: EA Engineering

Project: Del Oro

Sample ID: MB SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: PBW Batch ID: **R58427** RunNo: 58427 Analysis Date: 3/15/2019 Prep Date: SeqNo: 1960653 Units: mg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride ND 0.50 Nitrogen, Nitrite (As N) ND 0.10 Nitrogen, Nitrate (As N) ND 0.10 Sulfate 0.50 ND

Sample ID: LCS	SampT	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: LCSW	Batch	n ID: <b>R5</b>	8427	F	RunNo: <b>5</b>	8427				
Prep Date:	Analysis D	ate: 3/	15/2019	5	SeqNo: 1	960654	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.9	90	110			
Nitrogen, Nitrite (As N)	0.96	0.10	1.000	0	96.4	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	101	90	110			
Sulfate	9.9	0.50	10.00	0	99.4	90	110			

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

W Sample container temperature is out of limit as specified at testcode

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903733

01-Apr-19

**Client: EA** Engineering

**Project:** Del Oro

Sample ID: MB-43789 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43789 RunNo: 58541

Prep Date: 3/20/2019 Analysis Date: 3/21/2019 SeqNo: 1965593 Units: mg/L

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result

Total Dissolved Solids ND 20.0

Sample ID: LCS-43789 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43789 RunNo: 58541

Prep Date: 3/20/2019 Analysis Date: 3/21/2019 SeqNo: 1965594 Units: mg/L

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Qual

Total Dissolved Solids 1010 1000 0 101 20.0 120

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit Reporting Detection Limit

Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

Sample container temperature is out of limit as specified at testcode

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903733** 

01-Apr-19

Client: EA Engineering

**Project:** Del Oro

Sample ID: MB-43845 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43845 RunNo: 58637

Prep Date: 3/22/2019 Analysis Date: 3/25/2019 SeqNo: 1969131 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43845 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43845 RunNo: 58637

Prep Date: 3/22/2019 Analysis Date: 3/25/2019 SeqNo: 1969132 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 102 80 120

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

W Sample container temperature is out of limit as specified at testcode



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

## Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: **EA Engineering Alb** Work Order Number: 1903733 RcptNo: 1 Victoria Gellar Received By: Victoria Zellar 3/15/2019 8:40:00 AM Completed By: Yazmine Garduno 3/15/2019 9:41:14 AM Magniore Colondario 3/15/19 Reviewed By: LB: DAD 3/15/19 Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗔 Not Present 2. How was the sample delivered? FedEx Log In 3. Was an attempt made to cool the samples? No 🗌 NA 🗌 Yes 🗸 No 🗌 NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No 🗌 5. Sample(s) in proper container(s)? Yes 🗸 Yes 🗸 No 🗌 Sufficient sample volume for indicated test(s)? No 🗌 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No V NA 🗌 Yes V 8. Was preservative added to bottles? 9. VOA vials have zero headspace? No 🗌 No VOA Vials Yes Yes  $\square$ No 🗸 10. Were any sample containers received broken? # of preserved bottles checked Yes 🗸 No 🗌 for pH: 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) (②or >12 unless noted) Adjusted? YES 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 No 🗌 13. Is it clear what analyses were requested? Yes 🗸 Checked by: DAD 3/15/19 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes NA 🗸 No 🗌 Person Notified: Date: By Whom: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: For Wet chem Analysis Added approx. I.M. HZSOY to Sample 00 1(2052) For acceptable PH. For metals analysis added approx. 2 ml. HNO3 to sample oul 17 Cooler Information for acceptable pt. 24 hrs. Prior to Analysis. Held Temp °C Condition Seal No Seal Date Seal Intact Signed By

4.8

Good

Yes

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lecessary, s	amples sub	mitted to Hall Environmental may be subc	contracted to other a	ccredited laborator	ries. This serves as notice of this	s possibility.	Any su	b-contr	acted data	will be clea	rly notated on t	the analytica	l report.	
	Phone #: 5  email or Fax#: π  QA/QC Package:  CAccreditation:  Date Time  Time: F  Tw-1  Tw-1  Ty-1  Ty-1  Ty-1  Time: F  Time: F  Time: F  Time: F	Sazo Gold Ave SW Suite 1  Sax#: rmullen@  ckage:  Ckage:  Ime Matrix  13.0 \ldots  13.0 \ldots  Relinquishe  me: Relinquishe ime: Relinquishe ime: Relinquishe	Phone #: 505-715-4279  email or Fax#: rmullen@eaest.com  OA/OC Package:  □ Standard  Accreditation: □ NELAP □ EDD (Type) □ EDD (Type) □ Hy-15 (43.2 W   \$2.20.0  Th'-15 (43.0 W   \$2.20.0  Th'-15 (43.0 W   \$2.20.0  Th'-15 (43.0 W   \$2.20.0  Th'-15 (43.0 W   \$2.20.0  Th'-17 (43.0 W   \$2.20.0  Theressan Samples submitted by:	Project Name   Proj	Project Name	Substitution   Project Name   Project Manager:   Gina Mullen   Gina Mullen	Sampler Time Matrix Sample Request ID Type and # Type   Container Dry Co	130 cold Ans SW Suite 1300 Abroquerque, IMA, 87102   Project #   Project #   Project Manager   Gina Mullen   Gin	Project Name:  Project Manager:  Gina Mullen  Gina Mullen  Gina Mullen  Sampler: Tish Lisgue  Sampler: Tish Lisgue  Sampler: Tish Lisgue  Container Preservative  Fige 100 000  Sample Temperature: How Mee Good of the Container Type and # Type 1000  Sample Temperature: How Mee Good of the Container Type and # Type 1000  Sample Temperature: How Mee Good of the Container Time Remarks:  Sample Temperature: How Mee Good of the Container Time Remarks:  Sample Temperature: How Mee Good of the Container Time Remarks:  Sample Temperature: How Mee Good of the Container Time Remarks:  Sample Temperature: How Mee Good of the Container Time Remarks:  Sample Temperature: How Mee Good of the Container Time Remarks:	Project Name:  Project Manager:  Gina Mullen  Gina Mullen  Gina Mullen  Sampler: Tish Lispar  On Ice: Whee Gina Mullen  Sample Temperature: How Make Gina Mullen  Sample Temperature: How Mullen  Sample Temperature: How Make Gina Mullen  Sample Temperature: How Make Gina Mullen  Sample Temperature: How Make Gina Mullen  Sample Temperature: How Mullen  Sample Temperature: How Make Gina Mullen  Sample Temperature: How Mullen  Sample Temperature:	Project Name:  Project Manager:  Gina Mullen  Gina Mullen  Gina Mullen  Sampler: Tish Lissarc  On Ice: Wheeled By Manager:  Sample Temperature: How Manager: How Man	Project Name:  Project Manager:  Gina Mullen  Gina Mullen  Gina Mullen  Sampler: Tish Lispar  On Ice: Whee Gina Mullen  Sample Temperature: How Make Gina Mullen  Sample Temperature: How Mullen  Sample Temperature: How Make Gina Mullen  Sample Temperature: How Make Gina Mullen  Sample Temperature: How Make Gina Mullen  Sample Temperature: How Mullen  Sample Temperature: How Make Gina Mullen  Sample Temperature: How Mullen  Sample Temperature:	Project Name:  Project Manager:  Gina Mullen  Gina Mullen  Gina Mullen  Sampler: Tish Lissarc  On Ice: Wheeled By:  Sample Temperature: How help to the performance to other accredited Bhoratories. This serves as notice of this possibility. Any sub-	Project Name:  Project Name:  Gina Mullen  Sampler: 7557 ~ 1659 ~ 1000  Sample Temperature: 4 6 ~ 1000  Sample Tempera



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 13, 2019

Regina Mullen
EA Engineering
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX:

RE: Sunset Dairy OrderNo.: 1903205

## Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/6/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

## Lab Order 1903205

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/13/2019

**CLIENT:** EA Engineering Client Sample ID: LRG-3348-5-3-South Twin

 Project:
 Sunset Dairy
 Collection Date: 3/5/2019 9:56:00 AM

 Lab ID:
 1903205-001
 Matrix: AQUEOUS
 Received Date: 3/6/2019 9:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: MRA	
Nitrogen, Nitrite (As N)	ND	1.0	mg/L	10	3/6/2019 8:15:36 PM	R58184	
Nitrogen, Nitrate (As N)	ND	1.0	mg/L	10	3/6/2019 8:15:36 PM	R58184	
SM 4500 NORG C: TKN	SM 4500 NORG C: TKN Analyst: OG						
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1	3/12/2019 2:00:00 PM	43614	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Н Holding times for preparation or analysis exceeded J Page 1 of 5 Not Detected at the Reporting Limit Sample pH Not In Range ND P PQL Practical Quanitative Limit Reporting Detection Limit RL% Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

## Lab Order 1903205

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/13/2019

**CLIENT:** EA Engineering Client Sample ID: LRG-3348-5-2-North Twin

 Project:
 Sunset Dairy
 Collection Date: 3/5/2019 10:01:00 AM

 Lab ID:
 1903205-002
 Matrix: AQUEOUS
 Received Date: 3/6/2019 9:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Nitrogen, Nitrite (As N)	ND	1.0	mg/L	10	3/6/2019 9:07:08 PM	R58184
Nitrogen, Nitrate (As N)	ND	1.0	mg/L	10	3/6/2019 9:07:08 PM	R58184
SM 4500 NORG C: TKN					Analys	t: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1	3/12/2019 2:00:00 PM	43614

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Н Holding times for preparation or analysis exceeded J Page 2 of 5 Not Detected at the Reporting Limit Sample pH Not In Range ND P PQL Practical Quanitative Limit Reporting Detection Limit RL% Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

## Lab Order **1903205**Date Reported: **3/13/2019**

Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering

**Sunset Dairy** 

**Project:** 

Client Sample ID: LRG-3348-940-POD2

**Collection Date:** 3/5/2019 10:06:00 AM

Sample container temperature is out of limit as specified

**Lab ID:** 1903205-003 **Matrix:** AQUEOUS **Received Date:** 3/6/2019 9:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Nitrogen, Nitrite (As N)	ND	1.0	mg/L	10	3/6/2019 9:32:51 PM	R58184
Nitrogen, Nitrate (As N)	ND	1.0	mg/L	10	3/6/2019 9:32:51 PM	R58184
SM 4500 NORG C: TKN					Analys	t: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1	3/12/2019 2:00:00 PM	43614

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Н Holding times for preparation or analysis exceeded J Page 3 of 5 ND Not Detected at the Reporting Limit Sample pH Not In Range P PQL Practical Quanitative Limit Reporting Detection Limit RL

% Recovery outside of range due to dilution or matrix

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903205** 

13-Mar-19

Client: EA Engineering
Project: Sunset Dairy

Sample ID: MB SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R58184 RunNo: 58184

Prep Date: Analysis Date: 3/6/2019 SeqNo: 1951427 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Nitrite (As N) ND 0.10
Nitrogen, Nitrate (As N) ND 0.10

Sample ID: LCS SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R58184 RunNo: 58184

Prep Date: Analysis Date: 3/6/2019 SeqNo: 1951428 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Nitrogen, Nitrite (As N) 90 1.0 0.10 1.000 0 100 110

Nitrogen, Nitrate (As N) 2.6 0.10 2.500 0 104 90 110

## NOTES:

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 4 of 5

<sup>\*</sup> A cleanup step was performed on the extract before analysis.

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903205** 

13-Mar-19

Client: EA Engineering
Project: Sunset Dairy

Sample ID: MB-43614 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43614 RunNo: 58308

Prep Date: 3/11/2019 Analysis Date: 3/12/2019 SeqNo: 1955564 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43614 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43614 RunNo: 58308

Prep Date: 3/11/2019 Analysis Date: 3/12/2019 SegNo: 1955565 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 102 80 120

Sample ID: 1903205-001AMS SampType: MS TestCode: SM 4500 Norg C: TKN

Client ID: LRG-3348-5-3-South Batch ID: 43614 RunNo: 58308

Prep Date: 3/11/2019 Analysis Date: 3/12/2019 SeqNo: 1955578 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 102 75 125

Sample ID: 1903205-001AMSD SampType: MSD TestCode: SM 4500 Norg C: TKN

Client ID: LRG-3348-5-3-South Batch ID: 43614 RunNo: 58308

Prep Date: 3/11/2019 Analysis Date: 3/12/2019 SeqNo: 1955579 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 102 75 125 0 20

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

## Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: EA Engineering Alb Work Order Number: 1903205 RcptNo: 1 Received By: Isaiah Ortiz 3/6/2019 9:00:00 AM Completed By: 3/6/2019 9:44:52 AM Isaiah Ortiz IO 3/6/19 Reviewed By: LB: NVZ 3/6/19 Chain of Custody 1. Is Chain of Custody complete? No 🗌 Not Present Yes 🗸 2. How was the sample delivered? FedEx Log In 3. Was an attempt made to cool the samples? Yes 🗸 No 🗌 NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗸 NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 No Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 7. Are samples (except VOA and ONG) properly preserved? **V** No 🔲 8. Was preservative added to bottles? Yes No 🗸 NA 🗌 9. VOA vials have zero headspace? Yes No 🗌 No VOA Vials 10. Were any sample containers received broken? Yes  $\square$ No 🗸 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? No 🗌 Yes 🗸 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 14. Were all holding times able to be met? Checked by: VVZ 316/19 Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: | 16. Additional remarks: 17. Cooler Information

Cooler No

Temp °C

0.1

Condition

Yes

Good

Seal Intact | Seal No

Seal Date

Signed By

S	hain-	-of-Cu	Chain-of-Custody Record	Turn-Around Time:	ime:				7		Щ	2	HALL ENVIRONMENTAL	2	<u>u</u>	F	
Client:	EA Engin	eering, Sci	EA Engineering, Science, and Technology	□ Standard	□ Rush				. «	Z	\     	SIS	ANALYSIS LABORATORY	80	2		
				Project Name:						ww.	hallen	vironr	www.hallenvironmental.com	com			
Mailing Addr	ess: 320 Gold	d Ave SW Suite	Mailing Address: 320 Gold Ave SW Suite 1300 Albuquerque, NM, 87102	0,	Sunset Dairy		7	1901	4901 Hawkins NE	ns NE	1	endne	Albuquerque, NM 87109	NM 87	7109		
				Project #:				Tel. 5	505-345-3975	5-397		Fax	505-345-4107	5-410	7		
Phone #:	<b>#</b> :	505-715-4279	4279	Ð							Ana	Analysis	Request	st			
email or Fax#:	r Fax#:	rmullen@	rmullen@eaest.com	Project Manager:	er:		-	0:0									
QA/QC F	QA/QC Package:			Ü	Gina Mullen			oe r									
□ Standard	dard		☐ Level 4 (Full Validation)				11			(		90					 5 5
Accreditation:	tation:			Sampler:								109					 (N
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	EDD (Type)_			Sample Temperature:	erature: 0.	١,٠					36	H= 9					Y)
Date	Time	Matrix	Sample Request ID	Container F	Preservative Type	HEAL NO.	7:-1:1 <b>1</b> /-11:11	Nitrate/Nitrit	Chloride EP	TDS SM 25	Sulfate EPA	Phosphorus	Total Sulfur	-			 Air Bubbles
-5-19	986	3	LR6-3348-5-3 -Swoth train	7		-001		×		20,							
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3-5-6	1630	4	4	1-0-1	15030x	5											7,
Date:	Time:	Relinquished by:	ed by:	Received by:		Date Time											
	If necessary,	, samples sut	I necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	ontracted to other acc	redited laboratories	. This serves as notice of this	possibili	y. Any	noo-qns	racted	lata will	be clearl	y notated	on the a	nalytica	l report.	]



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 09, 2019

Regina Mullen
EA Engineering Alb
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX:

RE: Mountain View Dairy LLC OrderNo.: 1903735

## Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/15/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

## Lab Order **1903735**

Date Reported: 4/9/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: Lagoon

**Project:** Mountain View Dairy LLC
 Collection Date: 3/14/2019 11:22:00 AM

 **Lab ID:** 1903735-001
 Matrix: AQUEOUS
 Received Date: 3/15/2019 8:40:00 AM

Analyses	Result	RL	Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	smb
Chloride	1600	50		mg/L	100	3/15/2019 11:54:06 PM	R58427
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/15/2019 11:41:42 PM	R58427
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	3/15/2019 11:41:42 PM	R58427
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	KS
Total Dissolved Solids	8570	200	*D	mg/L	1	3/21/2019 4:01:00 PM	43789
EPA METHOD 365.1: TOTAL PHOSPHOROUS						Analyst:	CJS
Phosphorus, Total (As P)	110	2.5	D	mg/L	5	3/21/2019 12:16:00 PM	43794
SM 4500 NORG C: TKN						Analyst:	OG
Nitrogen, Kjeldahl, Total	1000	10	D	mg/L	1	4/4/2019 2:30:00 PM	44076

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- W Sample container temperature is out of limit as specified at testcode

## 1903735-001B LAGOON Collected date/time: 03/14/19 11:22

## SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.

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Metals (ICP) by Method 200.7

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/I		mg/I		date / time	
Sulfur	97.7		1.00	1	03/23/2019 22:33	WG1250445





















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Metals (ICP) by Method 200.7

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ו- וכפלכפטו (פווו	(MB) K3394597-1 U3/23/19 Z1:1/				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	l/gm		mg/l	mg/l	
ulfur	⊃		0.220	1.00	

Ss

ONE LAB. NATIONWIDE.

QUALITY CONTROL SUMMARY

L1080041-01

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## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

0.151 0.0
2:

# L1079392-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	RPD Limits	%	20
	RPD	96	5.28
	MSD Qualifier		
	MS Qualifier		
	Dilution Rec. Limits	%	70.0-130
	Dilution		-
/19 21:32	ult MSD Result MS Rec. MSD Rec.	96	115
597-6 03/23/	MS Rec.	%	106
<ul> <li>(MSD) R3394</li> </ul>	MSD Result	l/gm	17.8
3/23/19 21:30	MS Result	l/gm	16.9
3394597-5 0	Original Result	mg/l	6.26
(OS) L1079392-01 03/23/19 21:24 • (MS) R3394597-5 03/23/19 21:3	Spike Amount Original Result MS Resul	l/gm	10.0
(OS) L1079392-01 0		Analyte	Sulfur

## L1080017-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

Sc

A

ISD) R3394597-8 03/23/19 21:40	MS Rec. MSD Rec. Dilution Rec. Limits MS Qualifier MSD Qualifier RPD RPD Limits		111 11 70.0-130 0.0767 20
		%	70.0-130
	Dilution		-
19 21:40	MSD Rec.	96	111
597-8 03/23/	MS Rec.	%	Ε
2	MSD Result	mg/I	15.0
3/23/19 21:38 •	MS Result	∥/gm	15.0
3394597-7 03	Spike Amount Original Result MS Result	mg/l	3.93
19 21:35 • (MS) R	Spike Amount	l/gm	10.0
(OS) L1080017-01 03/23/19 21:35 • (MS) R3394597-7 03/23/19 21:38 •		Analyte	Sulfur

Hall Environmental Analysis Laboratory



## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Ср

Cn

Sr

Qc

## Abbreviations and Definitions

Method Detection Limit.	
Reported Detection Limit.	
Recovery.	
Relative Percent Difference.	
Sample Delivery Group.	
	Reported Detection Limit. Recovery. Relative Percent Difference.

U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes

Analyte	reported.
	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the

	in the sample matrix contains an interioring material, the sample preparation volume of weight values unler nom the
Dilution	standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the
Dilation	laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the
	result reported has already been corrected for this factor.

Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.	
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	duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.

	, and the state of
	This column provides a letter and/or number designation that corresponds to additional information concerning the result
Qualifier	reported. If a Qualifier is present a definition per Qualifier is provided within the Glossary and Definitions page and

r	reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and
	reported in a dadanter is present, a definition per dadanter is provided within the clossary and Definitions page and
	potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.

The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was
no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL"
(Below Detectable Levels). The information in the results column should always be accompanied by either an MDL
(Method Detection Limit) or RDI (Reporting Detection Limit) that defines the lowest value that the laboratory could detect

(Below Detectable Levels). The information in the results column should always be accompanied by either an MDL
(Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect
or report for this analyte.



Result

Sample Custody

## A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.

Summary (Oc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being neutron to the procedure of the results reported for your samples.
	being performed on your samples typically, but on laboratory generated material.

	This is the document created in the field when your samples were initially collected. This is used to verify the time and
Chain of	date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This
ly (Sc)	chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the
	samples from the time of collection until delivery to the laboratory for analysis.

## This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.

## Sample Summary (Ss) This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

## Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903735** 

09-Apr-19

Client: EA Engineering Alb
Project: Mountain View Dairy LLC

Sample ID: MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R58427 RunNo: 58427

Prep Date: Analysis Date: 3/15/2019 SeqNo: 1960653 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Chloride
 ND
 0.50

 Nitrogen, Nitrite (As N)
 ND
 0.10

 Nitrogen, Nitrate (As N)
 ND
 0.10

Sample ID: LCS SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R58427 RunNo: 58427

Prep Date: Analysis Date: 3/15/2019 SeqNo: 1960654 Units: mg/L

SPK value SPK Ref Val %REC %RPD Analyte PQL LowLimit HighLimit **RPDLimit** Qual Chloride 0.50 5.000 0 95.9 90 110 4.8 Nitrogen, Nitrite (As N) 0.96 0.10 1.000 0 96.4 90 110 0 101 Nitrogen, Nitrate (As N) 2.5 0.10 2.500 90 110

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903735** 

09-Apr-19

Client: EA Engineering Alb
Project: Mountain View Dairy LLC

Sample ID: MB-43794 SampType: MBLK TestCode: EPA Method 365.1: Total Phosphorous

Client ID: PBW Batch ID: 43794 RunNo: 58536

Prep Date: 3/20/2019 Analysis Date: 3/21/2019 SeqNo: 1965454 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Phosphorus, Total (As P) ND 0.010

Sample ID: LCS-43794 SampType: LCS TestCode: EPA Method 365.1: Total Phosphorous

Client ID: LCSW Batch ID: 43794 RunNo: 58536

Prep Date: 3/20/2019 Analysis Date: 3/21/2019 SeqNo: 1965455 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Phosphorus, Total (As P) 0.24 0.010 0.2500 0 97.8 90 110

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903735** 

09-Apr-19

Client: EA Engineering Alb
Project: Mountain View Dairy LLC

Sample ID: MB-43789 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43789 RunNo: 58541

Prep Date: 3/20/2019 Analysis Date: 3/21/2019 SeqNo: 1965593 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43789 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43789 RunNo: 58541

Prep Date: 3/20/2019 Analysis Date: 3/21/2019 SeqNo: 1965594 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903735** 

09-Apr-19

Client: EA Engineering Alb

**Project:** Mountain View Dairy LLC

Sample ID: MB-44076 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 44076 RunNo: 58937

Prep Date: 4/3/2019 Analysis Date: 4/4/2019 SeqNo: 1981917 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-44076 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 44076 RunNo: 58937

Prep Date: 4/3/2019 Analysis Date: 4/4/2019 SeqNo: 1981918 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 101 80 120

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: EA Engineering Alb	Work Order Number:	1903735		RcptNo: 1	
Received By: Victoria Zellar	3/15/2019 8:40:00 AM		Victoria Ge	llan	
Completed By: Yazmine Garduno	3/15/2019 10:04:26 AN	1	Mazmini liffraturi	6	
Reviewed By:	3/15/19		•		
LB: DAD 3/15/19					
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		FedEx			
<u>Log In</u>					
3. Was an attempt made to cool the samples?		Yes 🗸	No 🗌	NA 🗆	
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗆		
6. Sufficient sample volume for indicated test(s	)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) properly	y preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗸	No V	0AP 3/15/19 NA 🗆	
9. VOA vials have zero headspace?		Yes	No 🗌	No VOA Vials 🗹	
10. Were any sample containers received broke	n?	Yes	No 🔽	# of preserved	
11 5				bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗸	No 📙		unless noted)
12. Are matrices correctly identified on Chain of	Custody?	Yes 🗸	No 🗌	Adjusted? YES	<b>)</b>
13. Is it clear what analyses were requested?		Yes 🗸	No 🗌	,	
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗸	No 🗌	Checked by:	
Special Handling (if applicable)					
15. Was client notified of all discrepancies with	this order?	Yes $\square$	No 🗌	NA 🗹	
Person Notified:	Date:	Name of the Party			
By Whom:	Via:	eMail	Phone  Fax	☐ In Person	
Regarding:	A CONTRACTOR DE L'ANTINE MONTE ACCIONNE DE CARROLLE CALLANDA A LA CONTRACTOR DE CARROLLE CARROLLE CALLANDA A LA CONTRACTOR DE CARROLLE CAR	TO COMMONDAIN SERVICE AND ADDRESS.	HARMAN BENERAL BENERAL BANK BANK BANK BANK BANK BANK BANK BANK		
Client Instructions:		200 / /	1 11 00	Name and the state of the state	1-61
16. Additional remarks: For wet them A	nalysis added of	HNA-			
P.H. for metals Analysis a  17. Cooler Information	acea approx emi		hrs.	prior to Analys	is DAD 3/15/19
the care of particular particular and the control of the form	eal Intact   Seal No   S	eal Date	Signed By	,	3. DAU 3/15/19
1 4.8 Good Ye	3				

- FROMMOGENER		www.hallenvironmental.com	4901 Hawk	Tel. 505-345-3975	Anal	0.0		0	10RG 0.00 0.00	e EI	HEAL No.  Mitrate/Mitrit  TKN SM 450  Chloride EP  TDS SM 250  Sulfate EPA  Sulfate EPA  Total Sulfur	× × × × ×							6	Date
Turn-Around Time:	任-Standard □ Rush	Project Name:	Mountain View Dairy	Project #:		Project Manager:	Gina Mullen		Sampler: スムカ レンション On Ice: 国)Yes	Tem	Container Preservative Type and # Type	3							Man	Received by:
Chain-of-Custody Record	EA Engineering, Science, and Technology		Mailing Address: 320 Gold Ave SW Suite 1300 Albuquerque, NM, 87102		5-4279	rmullen@eaest.com		☐ Level 4 (Full Validation)			Sample Request ID	larow	5							
in-of-C	ngineering, S		Gold Ave SW Sui		505-715-4279		ige:		r: Cther		ne Matrix	2 1							0	Relinquished by:
Cha	Client: EA Er		ling Address: 320		Phone #:	email or Fax#:	QA/QC Package:	□ Standard	Accreditation:	□ EDD (Type)	Date Time	14-19 1122							a	Date: Time:



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 01, 2019

Regina Mullen
EA Engineering Alb
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Bright Star Dairy OrderNo.: 1903736

## Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/15/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

## Lab Order **1903736**

Date Reported: 4/1/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: Lagoon

**Project:** Bright Star Dairy
 Collection Date: 3/14/2019 10:56:00 AM

 **Lab ID:** 1903736-001
 Matrix: AQUEOUS
 Received Date: 3/15/2019 8:40:00 AM

Analyses	Result	RL	Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	2700	100		mg/L	200	3/20/2019 4:11:57 AM	R58466
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/16/2019 12:31:21 AM	R58427
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	3/16/2019 12:31:21 AM	R58427
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	KS
Total Dissolved Solids	11200	200	*	mg/L	1	3/21/2019 4:55:00 PM	43790
EPA METHOD 365.1: TOTAL PHOSPHOROUS						Analyst	JRR
Phosphorus, Total (As P)	85	1.0	D	mg/L	2	3/20/2019 10:04:00 AM	43781
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	940	10	D	mg/L	1	3/26/2019 4:00:00 PM	43869

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- W Sample container temperature is out of limit as specified at testcode

## 1903736-001B LAGOON Collected date/time: 03/14/19 10:56

SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.

Metals (ICP) by Method 200.7

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/I		mg/I		date / time	
Sulfur	122		10.0	10	03/23/2019 11:25	WG1253517





















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Metals (ICP) by Method 200.7

Method Blank (MB)

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

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Ss

	MB RDL	l/gm	
	MB MDL	l/gm	0.220
	MB Qualifier		
03/22/19 05:15	MB Result	l/gm	ם
(MB) R3394117-1		Analyte	Sulfur

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3394117-2 03/22/19 05:17 • (LCSD) R3394117-3 03/22/19 05:20	/19 05:17 · (LCSD	) R3394117-3 0	13/22/19 05:20						
	Spike Amount LCS Result	LCS Result	LCSD Result LCS I	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier RPD	RPD Limits
Analyte	l/gm	mg/l	l/gm	96	96	96			96
Sulfur	10.0	10.2	10.2	102	102	85.0-115		0.764	20

# L1080635-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	RPD Limits	96	20
	er RPD	%	1.95
	MSD Qualifier RPD		
	MS Qualifier	95	
	Dilution Rec. Limits	%	70.0-130
			-
19 05:31	MSD Rec.	96	99.4
MSD) R3394117-6 03/22/19 05:31	MS Rec.	96	102
 =	MSD Result MS Rec.	l/gm	12.8
13/22/19 05:28	t MS Result	l/gm	13.0
R3394117-5 C	Original Result MS Result	l/gm	2.82
1080635-01 03/22/19 05:23 • (MS) R3394117-5 03/22/19 05:28 •	Spike Amount	l/gm	10.0
 (OS) L1080635-01 03/;		Analyte	Sulfur

# L1080635-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

Sc

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(OS) L1080635-02 03/22/19 05:33 • (MS) R3394117-7 03/22/19 0	:2/19 05:33 • (MS)	R3394117-7 03	1/22/19 05:36	05:36 • (MSD) R3394117-8 03/22/19 05:38	117-8 03/22/1	9 05:38						
	Spike Amount	Spike Amount Original Result MS Result	MS Result	<b>MSD Result</b>	It MS Rec.	MSD Rec.	Dilution	Dilution Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	l/gm	mg/l	mg/l	mg/l	96	96		%			%	%
Sulfur	10.0	2.86	13.3	13.3	104	104	-	70.0-130			0.0969	20

L1080043

03/25/19 09:17 DATE/TIME:



## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec	Pecoveny



Ss

RPD Relative Percent Difference. SDG Sample Delivery Group.



Not detected at the Reporting Limit (or MDL where applicable).

The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported



If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the Dilution laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.



These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal Limits for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or



duplicated within these ranges The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control



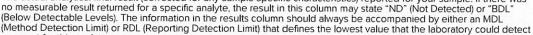
Original Sample sample. The Original Sample may not be included within the reported SDG

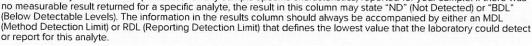


Sc

This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.

The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL





Uncertainty Confidence level of 2 sigma. (Radiochemistry)

A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.

This section of the report includes the results of the laboratory quality control analyses required by procedure or Quality Control analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. Summary (Qc)

Sample Chain of Custody (Sc)

Case Narrative (Cn)

Analyte

Qualifier

Result

This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.

This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.

Sample Summary (Ss)

Sample Results (Sr)

This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903736** 

01-Apr-19

Client: Project:	EA Engineering Alb Bright Star Dairy								
Sample ID: MB	SampType	e: MBLK	Tes	tCode: EPA I	Method 3	300.0: Anions			
Client ID: PBW	Batch ID	: R58427	F	tunNo: <b>5842</b>	27				
Prep Date:	Analysis Date	e: 3/15/2019	8	SeqNo: <b>1960</b>	653	Units: mg/L			
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC Lo	owLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)		0.10							
Nitrogen, Nitrate (As N)	ND	0.10							
Sample ID: LCS	SampType	e: LCS	Tes	tCode: EPA I	Method 3	300.0: Anions			
Client ID: LCSW	Batch ID	: R58427	F	tunNo: <b>5842</b>	27				
Prep Date:	Analysis Date	e: <b>3/15/2019</b>	S	SeqNo: <b>1960</b>	654	Units: mg/L			
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC Lo	owLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	0.96	0.10 1.000	0	96.4	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10 2.500	0	101	90	110			
Sample ID: MB	SampType	e: MBLK	Tes	tCode: EPA I	Method 3	300.0: Anions			
Client ID: PBW	Batch ID	: R58466	F	unNo: <b>5846</b>	66				
Prep Date:	Analysis Date	e: 3/19/2019	S	SeqNo: <b>1963</b>	8098	Units: mg/L			
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC Lo	owLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50							
Sample ID: LCS	SampType	e: LCS	Tes	tCode: <b>EPA I</b>	Method 3	300.0: Anions			
Client ID: LCSW	Batch ID	: R58466	F	unNo: <b>5846</b>	66				
Prep Date:	Analysis Date	e: <b>3/19/2019</b>	S	SeqNo: <b>1963</b>	8099	Units: mg/L			
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC Lo	owLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50 5.000	0	92.9	90	110			•

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903736** 

01-Apr-19

Client: EA Engineering Alb
Project: Bright Star Dairy

Sample ID: MB-43781 SampType: MBLK TestCode: EPA Method 365.1: Total Phosphorous

Client ID: PBW Batch ID: 43781 RunNo: 58514

Prep Date: 3/19/2019 Analysis Date: 3/20/2019 SeqNo: 1964074 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Phosphorus, Total (As P) ND 0.010

Sample ID: LCS-43781 SampType: LCS TestCode: EPA Method 365.1: Total Phosphorous

Client ID: LCSW Batch ID: 43781 RunNo: 58514

Prep Date: 3/19/2019 Analysis Date: 3/20/2019 SeqNo: 1964075 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Phosphorus, Total (As P) 0.26 0.010 0.2500 0 105 90 110

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903736** 

01-Apr-19

Client: EA Engineering Alb
Project: Bright Star Dairy

Sample ID: MB-43790 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43790 RunNo: 58542

Prep Date: 3/20/2019 Analysis Date: 3/21/2019 SeqNo: 1965618 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43790 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43790 RunNo: 58542

Prep Date: 3/20/2019 Analysis Date: 3/21/2019 SeqNo: 1965619 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1903736** 

01-Apr-19

Client: EA Engineering Alb
Project: Bright Star Dairy

Sample ID: MB-43869 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43869 RunNo: 58666

Prep Date: 3/25/2019 Analysis Date: 3/26/2019 SeqNo: 1970219 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43869 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43869 RunNo: 58666

Prep Date: 3/25/2019 Analysis Date: 3/26/2019 SeqNo: 1970220 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 104 80 120

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

## Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Client Name: **EA Engineering Alb** Work Order Number: 1903736 RcptNo: 1 Victoria Gellar Received By: Victoria Zellar 3/15/2019 8:40:00 AM Completed By: Yazmine Garduno 3/15/2019 10:14:32 AM 3 1919 Reviewed By: 1 B: DAD 3/15/19 Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? <u>FedEx</u> Log In 3. Was an attempt made to cool the samples? No 🗌 NA 🗌 Yes 🗸 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 No Sufficient sample volume for indicated test(s)? Yes 🗸 No 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No Yes V 3/15/19 NA 🗆 8. Was preservative added to bottles? 9. VOA vials have zero headspace? No VOA Vials 🗹 Yes No 🗌 Yes  $\square$ 10. Were any sample containers received broken? No 🗸 # of preserved bottles checked 2 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (₹2)or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 14. Were all holding times able to be met? Yes 🗸 No 🗌 Checked by: DAD 3/15/19 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: Date: By Whom: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: For wet chem. Analysis added approx. 3ml. HZSOy. FOR metals Analysis added approx-3 ML. HNO3 to sample 0018 For acceptable p.H. Held 24hrs. prior to Analysis. 17. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Seal Date Signed By 4.8 Good

Client: Ex Engineering, Science and Technology  Wave Accoust to British Standard  Wave Accordination  Bright Standard  Regitt Standard  Project #: Bright Standard  Regitt Standard  Project #: Bright Standard  Regitt Standard  Regit Standard  Regitt Standard  Regitt Standard  Regitt Standard  Re	O	hain	-of-Cu	Chain-of-Custody Record	Turn-Around	Time:			V.	5			, and				
Project Name   Project Name	Client:	EA Engir	neering, Sci		∑ Standard					A	AL	/SI	SIA	BOF	ZAT	AL DRY	
10   10   10   10   10   10   10   10					Project Name					<b>*</b>	w.halle	enviror	mental	moo			
Tel. 506-345-3976   Pax 505-345-107	Mailing Add	fress: 320 Gold	d Ave SW Suite	1300 Albuquerque, NM, 87102		Bright Star Da	airy	49	01 Ha	wkins		Albuqı	lerque, l	NM 871	60		
105   105		7-33			Project #:			ř	J. 505	-345-3	975	Fax	505-34	5-4107			
Contained by   Cont	Phone	#	505-715-	4279							An	ıalysis	Reque	st			
Contained by   Cont	email o	ır Fax#:	rmullen@	Jeaest.com	Project Mana	jer.		,008						i de marie			
Sampler	QA/QC	Package:				Gina Mullen		; po			7 -	311				Maria de la compansión de	
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Time Matrix Sample Request ID Type and # HEAL No TYPE MINISTER Sample Request ID Type and # HEAL No TYPE MINISTER EPA 30 Sulfate EPA 30 Sulfa	Accred	litation: AP	Other		.:. U	WEST VENT		N A9				09 ∀c					(N 1
Time Matrix Sample Request ID Type and # Type (M)37 3		(Type)			Sample Temp	9	00	3 əJi				I∃ s					o Y)
1056 W	Date	Time	Matrix	Sample Request ID	Container Type and #	ve		Nitrate/Nitr				Phosphoru					Air Bubbles
15 1x	3H	1056	3	184144)	3		100-	X	X		epon In i	X					
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	Date:	13/2	Relinguish	D Q	Received by:	Julan											
	Dale.	<u>i</u>															



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 01, 2019

Regina Mullen
EA Engineering Alb
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Bright Star Dairy OrderNo.: 1903736

## Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/15/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

## Lab Order **1903736**

Date Reported: 4/1/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: Lagoon

**Project:** Bright Star Dairy
 Collection Date: 3/14/2019 10:56:00 AM

 **Lab ID:** 1903736-001
 Matrix: AQUEOUS
 Received Date: 3/15/2019 8:40:00 AM

Analyses	Result	RL	Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	2700	100		mg/L	200	3/20/2019 4:11:57 AM	R58466
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/16/2019 12:31:21 AM	R58427
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	3/16/2019 12:31:21 AM	R58427
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	KS
Total Dissolved Solids	11200	200	*	mg/L	1	3/21/2019 4:55:00 PM	43790
EPA METHOD 365.1: TOTAL PHOSPHOROUS						Analyst	JRR
Phosphorus, Total (As P)	85	1.0	D	mg/L	2	3/20/2019 10:04:00 AM	43781
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	940	10	D	mg/L	1	3/26/2019 4:00:00 PM	43869

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- W Sample container temperature is out of limit as specified at testcode

## 1903736-001B LAGOON Collected date/time: 03/14/19 10:56

SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.

Metals (ICP) by Method 200.7

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/I		mg/I		date / time	
Sulfur	122		10.0	10	03/23/2019 11:25	WG1253517





















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Metals (ICP) by Method 200.7

Method Blank (MB)

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

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	MB RDL	l/gm	
	MB MDL	l/gm	0.220
	MB Qualifier		
03/22/19 05:15	MB Result	l/gm	ם
(MB) R3394117-1		Analyte	Sulfur

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3394117-2 03/22/19 05:17 • (LCSD) R3394117-3 03/22/19 05:20	/19 05:17 · (LCSD	) R3394117-3 0	13/22/19 05:20						
	Spike Amount LCS Result	LCS Result	LCSD Result LCS I	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier RPD	RPD Limits
Analyte	l/gm	mg/l	l/gm	96	96	96			96
Sulfur	10.0	10.2	10.2	102	102	85.0-115		0.764	20

# L1080635-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	RPD Limits	96	20
	er RPD	%	1.95
	MSD Qualifier RPD		
	MS Qualifier		
	Dilution Rec. Limits	%	70.0-130
			-
19 05:31	MSD Rec.	96	99.4
MSD) R3394117-6 03/22/19 05:31	MS Rec.	96	102
 =	MSD Result MS Rec.	l/gm	12.8
13/22/19 05:28	t MS Result	l/gm	13.0
R3394117-5 C	Original Result MS Result	l/gm	2.82
1080635-01 03/22/19 05:23 • (MS) R3394117-5 03/22/19 05:28 •	Spike Amount	l/gm	10.0
 (OS) L1080635-01 03/;		Analyte	Sulfur

# L1080635-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

Sc

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(OS) L1080635-02 03/22/19 05:33 • (MS) R3394117-7 03/22/19 0	:2/19 05:33 • (MS)	R3394117-7 03	1/22/19 05:36	05:36 • (MSD) R3394117-8 03/22/19 05:38	117-8 03/22/1	9 05:38						
	Spike Amount	Spike Amount Original Result MS Result	MS Result	<b>MSD Result</b>	It MS Rec.	MSD Rec.	Dilution	Dilution Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	l/gm	mg/l	mg/l	mg/l	96	96		%			%	%
Sulfur	10.0	2.86	13.3	13.3	104	104	-	70.0-130			0.0969	20

L1080043

03/25/19 09:17 DATE/TIME:



# Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

# Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec	Pecoveny



Ss

RPD Relative Percent Difference. SDG Sample Delivery Group.



Not detected at the Reporting Limit (or MDL where applicable).

The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported



If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the Dilution laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.



These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal Limits for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or



duplicated within these ranges The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control



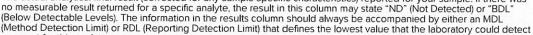
Original Sample sample. The Original Sample may not be included within the reported SDG

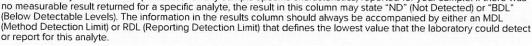


Sc

This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.

The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL





Uncertainty Confidence level of 2 sigma. (Radiochemistry)

A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.

This section of the report includes the results of the laboratory quality control analyses required by procedure or Quality Control analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. Summary (Qc)

Sample Chain of Custody (Sc)

Case Narrative (Cn)

Analyte

Qualifier

Result

This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.

This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.

Sample Summary (Ss)

Sample Results (Sr)

This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

# Hall Environmental Analysis Laboratory, Inc.

4.6

0.50

5.000

WO#: **1903736** 

01-Apr-19

Client:	EA Engineering Alb								
Project:	Bright Star Dairy								
Sample ID: MB	SampType	e: MBLK	Tes	tCode: <b>EPA</b>	Method	300.0: Anions			
Client ID: PBW	Batch ID	: <b>R58427</b>	F	tunNo: <b>584</b> 2	27				
Prep Date:	Analysis Date	3/15/2019	S	SeqNo: <b>196</b> 0	0653	Units: mg/L			
Analyte	Result P	QL SPK value	SPK Ref Val	%REC L	owLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	ND	0.10							
Nitrogen, Nitrate (As N)	ND	0.10							
Sample ID: LCS	SampType	: LCS	Tes	tCode: EPA	Method	300.0: Anions			
Client ID: LCSW	Batch ID	: R58427	F	tunNo: <b>5842</b>	27				
Prep Date:	Analysis Date	3/15/2019	S	SeqNo: <b>196</b> 0	0654	Units: mg/L			
Analyte	Result P	QL SPK value	SPK Ref Val	%REC L	owLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	0.96	0.10 1.000	0	96.4	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10 2.500	0	101	90	110			
Sample ID: MB	SampType	: MBLK	Tes	tCode: <b>EPA</b>	Method	300.0: Anions			
Client ID: PBW	Batch ID	: R58466	F	tunNo: <b>5846</b>	66				
Prep Date:	Analysis Date	3/19/2019	S	SeqNo: <b>196</b> 3	3098	Units: mg/L			
Analyte	Result P	QL SPK value	SPK Ref Val	%REC L	owLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50							
Sample ID: LCS	SampType	e: LCS	Tes	tCode: <b>EPA</b>	Method	300.0: Anions			
Client ID: LCSW	Batch ID	: R58466	F	unNo: <b>5846</b>	66				
Prep Date:	Analysis Date	3/19/2019	S	SeqNo: <b>196</b> 3	3099	Units: mg/L			
Analyte	Result P	QL SPK value	SPK Ref Val	%REC L	owLimit	HighLimit	%RPD	RPDLimit	Qual

0

92.9

90

110

# Qualifiers:

Chloride

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1903736** 

01-Apr-19

Client: EA Engineering Alb
Project: Bright Star Dairy

Sample ID: MB-43781 SampType: MBLK TestCode: EPA Method 365.1: Total Phosphorous

Client ID: PBW Batch ID: 43781 RunNo: 58514

Prep Date: 3/19/2019 Analysis Date: 3/20/2019 SeqNo: 1964074 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Phosphorus, Total (As P) ND 0.010

Sample ID: LCS-43781 SampType: LCS TestCode: EPA Method 365.1: Total Phosphorous

Client ID: LCSW Batch ID: 43781 RunNo: 58514

Prep Date: 3/19/2019 Analysis Date: 3/20/2019 SeqNo: 1964075 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Phosphorus, Total (As P) 0.26 0.010 0.2500 0 105 90 110

# Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1903736** 

01-Apr-19

Client: EA Engineering Alb
Project: Bright Star Dairy

Sample ID: MB-43790 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43790 RunNo: 58542

Prep Date: 3/20/2019 Analysis Date: 3/21/2019 SeqNo: 1965618 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43790 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43790 RunNo: 58542

Prep Date: 3/20/2019 Analysis Date: 3/21/2019 SeqNo: 1965619 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

# Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1903736** 

01-Apr-19

Client: EA Engineering Alb
Project: Bright Star Dairy

Sample ID: MB-43869 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43869 RunNo: 58666

Prep Date: 3/25/2019 Analysis Date: 3/26/2019 SeqNo: 1970219 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43869 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43869 RunNo: 58666

Prep Date: 3/25/2019 Analysis Date: 3/26/2019 SeqNo: 1970220 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 104 80 120

# Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

# Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Client Name: **EA Engineering Alb** Work Order Number: 1903736 RcptNo: 1 Victoria Gellar Received By: Victoria Zellar 3/15/2019 8:40:00 AM Completed By: Yazmine Garduno 3/15/2019 10:14:32 AM 3 1919 Reviewed By: 1 B: DAD 3/15/19 Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? <u>FedEx</u> Log In 3. Was an attempt made to cool the samples? No 🗌 NA 🗌 Yes 🗸 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 No Sufficient sample volume for indicated test(s)? Yes 🗸 No 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No Yes V 3/15/19 NA 🗆 8. Was preservative added to bottles? 9. VOA vials have zero headspace? No VOA Vials 🗹 Yes No 🗌 Yes  $\square$ 10. Were any sample containers received broken? No 🗸 # of preserved bottles checked 2 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (₹2)or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 14. Were all holding times able to be met? Yes 🗸 No 🗌 Checked by: DAD 3/15/19 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: Date: By Whom: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: For wet chem. Analysis added approx. 3ml. HZSOy. FOR metals Analysis added approx-3 ML. HNO3 to sample 0018 For acceptable p.H. Held 24hrs. prior to Analysis. 17. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Seal Date Signed By 4.8 Good

nicoci (mononio ilimito														
Client: EA Eng	ineering, Sci	EA Engineering, Science, and Technology	∑ Standard	□ Rush			1-	N	A.	SIS	ANALYSIS LABORATORY	ORA	TOF	<b>」</b> ≿
			Project Name:				4	<b>*</b>	v.halle	nviron	www.hallenvironmental.com	     E		
Mailing Address: 320 G	old Ave SW Suite	Mailing Address: 320 Gold Ave SW Suite 1300 Albuquerque, NM, 87102		Bright Star Dairy	iry	49	01 Ha	4901 Hawkins NE		nbnql	- Albuquerque, NM 87109	187109		
			Project #:			Tel.	J. 505	505-345-3975	975	Fax	505-345-4107	1107		
Phone #:	505-715-4279	4279							An	Analysis	Request			
email or Fax#:		rmullen@eaest.com	Project Manager:	Jer:		.008								
QA/QC Package:	iń.			Gina Mullen		; po			7 -		VIII		Marine S	
□ Standard		☐ Level 4 (Full Validation)				цзә	၁	(		40B				
Accreditation:	□ Other		Sampler: J.	Castin Verya	No.	N AG			0.0	09 ∀c				(1/1)
□ EDD (Type)			Tem	erature: 4, 800	2	ite E			0£ A	l∃ s	J			) <u>/</u> /
Date Time	Matrix	Sample Request ID	Container Type and #	ve	HEAL NO.	Nitrate/Nitr	TKN SM 45	Chloride EI	Sulfate EPA	Phosphoru	uìluê latoT			Selddu8 1iA
3/H 1056	3	1811.43)	3		190	X	X	X		X	×			
Y6 3/15/11		0					20.7				3			
			8											
Date: Time: 3-14-19 1330	Relinquished by:	ed by:	Received by:	My MEDEX	PEDE X Date Time Of Sulf	Remarks:	-  	*						
Date: Time:	Relinquished by:	ed by:	Received by:	1	Date Time									
If necess	ry, samples sub	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	ontracted to other ac	credited laboratories.	This serves as notice of this	s possibility.	Any sub-	contracte	d data wi	90	Iv notated on t	the analytic	al report.	



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 01, 2019

Regina Mullen
EA Engineering
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Sunset Dairy OrderNo.: 1903739

# Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/15/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

# **Analytical Report**

# Lab Order **1903739**

Date Reported: 4/1/2019

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Client Sample ID: Lagoon

 Project:
 Sunset Dairy
 Collection Date: 3/14/2019 10:26:00 AM

 Lab ID:
 1903739-001
 Matrix: AQUEOUS
 Received Date: 3/15/2019 8:40:00 AM

**Analyses** Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 1100 50 mg/L 100 3/16/2019 1:08:35 AM R58427 Nitrogen, Nitrite (As N) ND 1.0 mg/L 3/16/2019 12:56:10 AM R58427 Nitrogen, Nitrate (As N) ND 3/16/2019 12:56:10 AM R58427 1.0 mg/L **SM2540C MOD: TOTAL DISSOLVED SOLIDS** Analyst: KS **Total Dissolved Solids** 5940 200 3/21/2019 4:55:00 PM 43790 mg/L **EPA METHOD 365.1: TOTAL PHOSPHOROUS** Analyst: JRR 3/20/2019 10:10:00 AM 43781 Phosphorus, Total (As P) 2.5 D mg/L 120 SM 4500 NORG C: TKN Analyst: OG Nitrogen, Kjeldahl, Total 760 3/26/2019 4:00:00 PM 43869 10 D mg/L

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- W Sample container temperature is out of limit as specified at testcode

# 1903739-001B LAGOON Collected date/time: 03/14/19 10:26

# SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.

Metals (ICP) by Method 200.7

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/I		mg/I		date / time	<del></del>
Sulfur	81.5		10.0	10	03/23/2019 11:28	WG1253517





















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Metals (ICP) by Method 200.7

QUALITY CONTROL SUMMARY

Method Blank (MB)

	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	l/gm		l/gm	l/gm	
Sulfur	n		0.220	1.00	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

	RPD Limits		
	RPD	%	20
	LCSD Qualifier RPD	%	0.764
	LCS Qualifier		
	Rec. Limits	96	85.0-115
	LCSD Rec.	96	102
	LCS Rec.	%	102
03/22/19 05:20	ult LCSD Result LC	l/gm	10.2
) R3394117-3	LCS Result	mg/l	10.2
2/19 05:17 · (LCSE	Spike Amount LCS Result	l/gm	10.0
(LCS) R3394117-2 03/22/19 05:17 • (LCSD) R3394117-3 03/22/19 05:20		Analyte	Sulfur

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ONE LAB. NATIONWIDE.

L1080635-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

		RPD Limits	%	20
		fier RPD	%	1.95
		MSD Qualifier		
		MS Qualifier		
		Dilution Rec. Limits	96	70.0-130
		Dilution		-
	19 05:31	MSD Rec.	96	99.4
-	394117-6 03/22/19 05:31	MS Rec.	%	102
	· (MSD) R3	MSD Result	l/gm	12.8
	3/22/19 05:28	MS Result	l/gm	13.0
	R3394117-5 0	Original Result MS Resu	l/gm	2.82
	'19 05:23 · (MS)	Spike Amount	l/gm	10.0
THE REAL PROPERTY AND PARTY AND PARTY AND PERTY AND PERT	(OS) L1080635-01 03/22/19 05:23 • (MS) R3394117-5 03/22/19 05:28		Analyte	Sulfur

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L1080635-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(05) L1080635-02	(OS) L1080635-02 03/22/19 05:33 • (MS) R339411/-7 03/22/19 05:36 • (MSD) R3394117-8 03/22/19 05:38	) R3394117-7 0	3/22/19 05:36	<ul> <li>(MSD) R3394</li> </ul>	1117-8 03/22/1	9 05:38						
	Spike Amount	Spike Amount Original Result MS Result	MS Result	<b>MSD Result</b>	ult MS Rec.	MSD Rec.	Dilution	Dilution Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	l/gm	mg/l	l/gm	l/gm	96	%		%			%	%
Sulfur	10.0	2.86	13.3	13.3	104	104	-	70.0-130			6960.0	20

Hall Environmental Analysis Laboratory

ACCOUNT:



# Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

# Cp

Cn

Sr

Qc

A

# Abbreviations and Definitions

Result

MDL	Method Detection Limit.	
RDL	Reported Detection Limit.	
Rec.	Recovery.	
RPD	Relative Percent Difference.	
SDG	Sample Delivery Group.	



Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
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	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the
Dilution	standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the
	laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the

ilation	laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal

Limits	for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.

Original Sample  In a non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a complex sample. The Original Sample may not be included within the reported SDG.	uality control
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Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result
	reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and
	notentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable

A COUNTY OF A STATE OF
The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was
no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL"
(Relow Detectable Levels) The information in the results column should always be accounted by

no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL"
(Below Detectable Levels). The information in the results column should always be accompanied by either an MDL
(Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect
or report for this analyte.

Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will

ase Narrative (Cn)	observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will
	be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.

nalytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not
eing performed on your samples typically, but on laboratory generated material.
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Sample Chain of	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This
Custody (Sc)	chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.

	this section of your report will provide the results of all testing performed on your samples. These results are provided
Sample Results (Sr)	by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for
	each sample will provide the name and method number for the analysis reported

Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and
	times of preparation and/or analysis.

# Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1903739** 

01-Apr-19

Client: EA Engineering
Project: Sunset Dairy

Sample ID: MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R58427 RunNo: 58427

Prep Date: Analysis Date: 3/15/2019 SeqNo: 1960653 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Chloride
 ND
 0.50

 Nitrogen, Nitrite (As N)
 ND
 0.10

 Nitrogen, Nitrate (As N)
 ND
 0.10

Sample ID: LCS SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R58427 RunNo: 58427

Prep Date: Analysis Date: 3/15/2019 SeqNo: 1960654 Units: mg/L

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Chloride 0.50 5.000 0 95.9 90 110 4.8 Nitrogen, Nitrite (As N) 0.96 0.10 1.000 0 96.4 90 110 0 101 Nitrogen, Nitrate (As N) 2.5 0.10 2.500 90 110

# Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1903739** 

01-Apr-19

Client: EA Engineering
Project: Sunset Dairy

Sample ID: MB-43781 SampType: MBLK TestCode: EPA Method 365.1: Total Phosphorous

Client ID: PBW Batch ID: 43781 RunNo: 58514

Prep Date: 3/19/2019 Analysis Date: 3/20/2019 SeqNo: 1964074 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Phosphorus, Total (As P) ND 0.010

Sample ID: LCS-43781 SampType: LCS TestCode: EPA Method 365.1: Total Phosphorous

Client ID: LCSW Batch ID: 43781 RunNo: 58514

Prep Date: 3/19/2019 Analysis Date: 3/20/2019 SeqNo: 1964075 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Phosphorus, Total (As P) 0.26 0.010 0.2500 0 105 90 110

# Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1903739** 

01-Apr-19

Client: EA Engineering
Project: Sunset Dairy

Sample ID: MB-43790 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43790 RunNo: 58542

Prep Date: 3/20/2019 Analysis Date: 3/21/2019 SeqNo: 1965618 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43790 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43790 RunNo: 58542

Prep Date: 3/20/2019 Analysis Date: 3/21/2019 SeqNo: 1965619 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

# Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1903739** 

01-Apr-19

Client: EA Engineering
Project: Sunset Dairy

Sample ID: MB-43869 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43869 RunNo: 58666

Prep Date: 3/25/2019 Analysis Date: 3/26/2019 SeqNo: 1970219 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43869 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43869 RunNo: 58666

Prep Date: 3/25/2019 Analysis Date: 3/26/2019 SeqNo: 1970220 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 104 80 120

# Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: EA Engineering Alb Work Order Number: 1903739 RcptNo: 1 Victoria Gellar Received By: Victoria Zellar 3/15/2019 8:40:00 AM Completed By: Yazmine Garduno 3/15/2019 10:26:31 AM Reviewed By: 16 DAD 3/15/19 Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? **FedEx** Log In 3. Was an attempt made to cool the samples? Yes 🗸 No 🗌 NA 🗌 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C NA 🗌 Yes 🗸 Sample(s) in proper container(s)? Yes 🗸 No Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No 🗌 3/15/19 NA [ 8. Was preservative added to bottles? Yes 🗸 9. VOA vials have zero headspace? No 🗌 Yes No VOA Vials 🗹 Yes 🗌 10. Were any sample containers received broken? No 🗸 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (2)or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 12. Are matrices correctly identified on Chain of Custody? No 🗌 Yes 🗸 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 No 🗌 Checked by: DAD 3/15/19 14. Were all holding times able to be met? Yes 🗸 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: | 16. Additional remarks: Added Approx 1. ML. HZSO4 to sample OOIA (ZOFZ) for perferred pH. FOR Metals Analysis added approx 1.5ml HNO3 to sample 001B For acceptable PH. Held ZUhrs prior to Analysis. DAD 3/15/19 17. Cooler Information Cooler No Temp °C Condition Seal Intact 4.8 Good Yes

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Project Name:   Surset Dairy   Surset Dairy			Æ_Standard	□ Rush				A	AAL	YS	SLA	BOR	ATO	RY
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Project #: Tevel 4 (Full Validation)   Project Manager:   Gina Mullen	ess: 320 Gold Ave SW Suite	1300 Albuquerque, NM, 87102		Sunset Dairy		49	)1 H	wkin		Albuc	luerque,	NM 8710	60	
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		ed by:	Received by:											



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 01, 2019

Regina Mullen
EA Engineering
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Big Sky OrderNo.: 1903741

# Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/15/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

# **Analytical Report**

# Lab Order 1903741

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/1/2019

CLIENT: EA Engineering Client Sample ID: Lagoon

 Project:
 Big Sky
 Collection Date: 3/14/2019 9:59:00 AM

 Lab ID:
 1903741-001
 Matrix: AQUEOUS
 Received Date: 3/15/2019 8:40:00 AM

Analyses	Result	RL	Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	880	50		mg/L	100	3/16/2019 1:33:24 AM	R58427
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	3/16/2019 1:21:00 AM	R58427
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	3/16/2019 1:21:00 AM	R58427
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	KS
Total Dissolved Solids	5460	200	*	mg/L	1	3/21/2019 4:55:00 PM	43790
EPA METHOD 365.1: TOTAL PHOSPHOROUS						Analyst	JRR
Phosphorus, Total (As P)	160	2.5	D	mg/L	5	3/20/2019 10:12:00 AM	43781
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	790	10	D	mg/L	1	3/26/2019 4:00:00 PM	43869

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- W Sample container temperature is out of limit as specified at testcode

# 1903741-001B LAGOON Collected date/time: 03/14/19 09:59

# SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.

Metals (ICP) by Method 200.7

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/I		date / time	
Sulfur	67.6		10.0	10	03/23/2019 11:30	WG1253517























# WG1253517 Metals (ICP) by Method 200.7

Method Blank (MB)

QUALITY CONTROL SUMMARY L1080048-01

ONE LAB. NATIONWIDE.

	33394117-1 03/22/19 05:15				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	l/gm		l/gm	mg/l	
Sulfur	D		0.220		

# Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3394117-2 03/22/19 05:17 • (LCSD) R3394117-3 03/22/19 05:20	19 05:17 • (LCSD	) R3394117-3 0	3/22/19 05:20						
	Spike Amount LCS Result	LCS Result	t LCSD Result LCS Re	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier RPD	RPD Limits
Analyte	l/gm	∥gm	l/gm	%	96	96		%	96
Sulfur	10.0	10.2	10.2	102	102	85.0-115		0.764	20

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# L1080635-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1080635-01 03	080635-01 03/22/19 05:23 • (MS) R3394117-5 03/22/19 05:28	R3394117-5 03	3/22/19 05:28	(MSD) R3394	(MSD) R3394117-6 03/22/19 05:31	9 05:31						
	Spike Amount (	Original Result MS Result	MS Result	MSD Result	It MS Rec.	MSD Rec.	Dilution	Dilution Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	l/gm	mg/l	l/gm	l/gm	%	96		%			96	96
Sulfur	10.0	2.82	13.0	12.8	102	99.4	-	70.0-130			1.95	20

# L1080635-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1080635-02 03/22/19 05:33 · (MS) R3394117-7 03/22/19 (Spike Amount Original Result MS Resument) mg/l mg/l mg/l	22/19 05:33 • (MS) Spike Amount mg/l	9 05:33 • (MS) R3394117-7 03/22/19 ( Spike Amount Original Result MS Resu mg/l mg/l mg/l	3/22/19 05:36 MS Result mg/l	05:36 • (MSD) R3394117-8 03/22/19 05:38 aut MSD Result MS Rec. MSD R	MS Rec. %	/19 05:38 MSD Rec.		Dilution Rec. Limits	MS Qualifier	MSD Qualifier	RPD %	RPD Limits
Sulfur	10.0	2.86	13.3	13.3	104	104	,	70 0-130			0 0969	20

Hall Environmental Analysis Laboratory

ACCOUNT:



# Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.



Ss

Cn

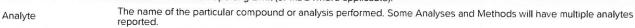
Sr

Qc

GΙ

# Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).



If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the Dilution

result reported has already been corrected for this factor.

These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal Limits for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.

The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control Original Sample sample. The Original Sample may not be included within the reported SDG

This column provides a letter and/or number designation that corresponds to additional information concerning the result Qualifier reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and

potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.

The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect

or report for this analyte. Uncertainty Confidence level of 2 sigma. (Radiochemistry)

A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. Case Narrative (Cn)

This section of the report includes the results of the laboratory quality control analyses required by procedure or Quality Control analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not Summary (Qc) being performed on your samples typically, but on laboratory generated material.

This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.

This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.

This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

Result

Sample Chain of

Sample Results (Sr)

Sample Summary (Ss)

Custody (Sc)

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1903741** 

01-Apr-19

Client: EA Engineering

**Project:** Big Sky

Sample ID: MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R58427 RunNo: 58427

Prep Date: Analysis Date: 3/15/2019 SeqNo: 1960653 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Chloride
 ND
 0.50

 Nitrogen, Nitrite (As N)
 ND
 0.10

 Nitrogen, Nitrate (As N)
 ND
 0.10

Sample ID: LCS SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R58427 RunNo: 58427

Prep Date: Analysis Date: 3/15/2019 SeqNo: 1960654 Units: mg/L

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Chloride 0.50 5.000 0 95.9 90 110 4.8 Nitrogen, Nitrite (As N) 0.96 0.10 1.000 0 96.4 90 110 0 101 Nitrogen, Nitrate (As N) 2.5 0.10 2.500 90 110

# Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1903741

01-Apr-19

**Client:** EA Engineering

**Project:** Big Sky

Sample ID: MB-43781 SampType: MBLK TestCode: EPA Method 365.1: Total Phosphorous

Client ID: PBW Batch ID: 43781 RunNo: 58514

Prep Date: 3/19/2019 Analysis Date: 3/20/2019 SeqNo: 1964074 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Phosphorus, Total (As P) ND 0.010

Sample ID: LCS-43781 SampType: LCS TestCode: EPA Method 365.1: Total Phosphorous

Client ID: LCSW Batch ID: 43781 RunNo: 58514

Prep Date: 3/19/2019 Analysis Date: 3/20/2019 SeqNo: 1964075 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Phosphorus, Total (As P) 0.26 0.010 0.2500 0 105 90 110

# Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1903741

01-Apr-19

Client: EA Engineering

**Project:** Big Sky

Sample ID: MB-43790 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43790 RunNo: 58542

Prep Date: 3/20/2019 Analysis Date: 3/21/2019 SeqNo: 1965618 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43790 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43790 RunNo: 58542

Prep Date: 3/20/2019 Analysis Date: 3/21/2019 SeqNo: 1965619 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

# Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1903741** 

01-Apr-19

**Client:** EA Engineering

**Project:** Big Sky

Sample ID: MB-43869 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43869 RunNo: 58666

Prep Date: 3/25/2019 Analysis Date: 3/26/2019 SeqNo: 1970219 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43869 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43869 RunNo: 58666

Prep Date: 3/25/2019 Analysis Date: 3/26/2019 SeqNo: 1970220 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 104 80 120

# Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: EA Engineering Alb	Work Order Number:	1903741		RcptNo: 1
Received By: Victoria Zellar	3/15/2019 8:40:00 AM		Victoria Gel	lar
Completed By: Yazmine Garduno	3/15/2019 10:36:22 AM	1	ylazmin leftadure	
Reviewed By:	3/15/19		<b>,</b> ,	
1 B: DAD 3/15/19				
Chain of Custody				
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present
2. How was the sample delivered?		<u>FedEx</u>		
l og In				
Log In  3. Was an attempt made to cool the samples?		Yes 🗸	No 🗆	NA 🗆
and the samples.		103		
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆
F 0			$\Box$	
5. Sample(s) in proper container(s)?		Yes 🗸	No 📙	
6. Sufficient sample volume for indicated test(s)	)?	Yes 🗸	No 🗌	
7. Are samples (except VOA and ONG) properly	y preserved?	Yes 🗸	No 🗌	Q <sub>A</sub>
8. Was preservative added to bottles?		Yes 🗹	No V	3/5/19 NA 🗆
9. VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials ✓
10. Were any sample containers received broke	n?	Yes	No 🗸	
				# of preserved bottles checked
11. Does paperwork match bottle labels?		Yes 🗸	No 🗆	for pH: Q (£2)or >12 unless noted)
(Note discrepancies on chain of custody)  12. Are matrices correctly identified on Chain of 0	Custody?	Yes 🗸	No 🗆	Adjusted? VES
13. Is it clear what analyses were requested?	ouslody!	Yes 🗹	No 🗆	
14. Were all holding times able to be met?		Yes 🗸	No 🗆	Checked by: OAD 3/15/19
(If no, notify customer for authorization.)			ĺ	
Special Handling (if applicable)				
15. Was client notified of all discrepancies with t	his order?	Yes 🗌	No 🗌	NA 🗹
Person Notified:	Date:	NO AND THE RESPONSE NAME AND ADDRESS OF THE	action and action and action and action as a	
By Whom:	Via:	eMail 📗	Phone Fax	☐ In Person
Regarding:				The Control of the Co
Client Instructions:				Anna de la companya de la compa
16. Additional remarks: Added approx In	nl HzSO4 to SA	mple 00	IA(zofz)	for acceptable pH. FOR
17. Cooler Information Cooler No Town & Condition Se	ox. I.SML HNO	3 to San	ple cois for	racceptable pH. Held Zyhrs.
Cooler No Temp °C Condition Se	eal Intact   Seal No   S	eal Date	Signed By	Prior to Analysis. DAD
1 4.8 Good Yes				3/15/1

Chi	ain-c	of-Cu	Chain-of-Custody Record	Turn-Around	Time:				I		L	5	HALL ENVIRONMENTAL	FNTA		
Client: EA	Engine	ering, Sci	EA Engineering, Science, and Technology	Standard Standard	□ Rush				•	M	YS	IS	ANALYSIS LABORATORY	ATO	1 ×	
				Project Name:					>	ww.h	allenvir	onme	www.hallenvironmental.com			
Mailing Address:	320 Gold A	ve SW Suite	Mailing Address: 320 Gold Ave SW Suite 1300 Albuquerque, NM, 87102		Big Sky		46	01 H	awkin	s NE	- Albu	dner	4901 Hawkins NE - Albuquerque, NM 87109	60		
				Project #:			-	Tel. 50	5-345	505-345-3975		Fax 50	505-345-4107			100
Phone #:	5	505-715-4279	4279								Analysis Request	is Re	quest			The same
email or Fax#:	:#x		rmullen@eaest.com	Project Manager:	ger:		0.00									
QA/QC Package:	kage:						98 p									
□ Standard	ą		☐ Level 4 (Full Validation)		Gina Mullen		oqje	၁		_		0B				
Accreditation:		Other		Sampler: 7	Tish Risg	ucc □ No	∍M A⊂	ORG				109 A			(14 24	(NIII
□ EDD (Type)	ype)			Tem	:4	gol	I∃ əi	1 00	S. de S. M	11 2						11 (
Date		Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	Nitrate/Nitrit	TKN SM 45	Chloride EP	TDS SM 25		Phosphorus Total Sulfur			00 44116  2:17	Air Bubbles
74-19	959	3	Com	3		109	X	×	×	×		×				
1	+-															100
																1000
																1000
																F (32)
							2									1000
								22								100
																1 112
																100
1	Time: R	Relinquished by:	ed by:	Received by:	A Pallasi	3/15/19 Date Time 3/15/19 0840	Remarks:	.S.								
Date: Tin	Time:	Relinquished by:	ed by:	Received by:		Date Time										
If ne	cessary, s	amples suk		contracted to other a	ccredited laboratori	ies. This serves as notice of this	possibility.	Any s	ub-contr	acted da	ta will be	clearly n	stated on the anal	lytical report.		Company of the Compan



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 01, 2019

Regina Mullen
EA Engineering Alb
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Organ Dairy OrderNo.: 1903742

# Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/15/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

# **Analytical Report**

# Lab Order **1903742**

Date Reported: 4/1/2019

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: Lagoon

**Project:** Organ Dairy
 Collection Date: 3/14/2019 11:44:00 AM

 **Lab ID:** 1903742-001
 Matrix: AQUEOUS
 Received Date: 3/15/2019 8:40:00 AM

Analyses	Result	RL	Qua	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	1400	50		mg/L	100	3/16/2019 1:58:13 AM	R58427
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	3/16/2019 1:45:48 AM	R58427
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: KS
Total Dissolved Solids	5280	200	*	mg/L	1	3/21/2019 4:55:00 PM	43790
EPA METHOD 365.1: TOTAL PHOSPHOROUS						Analyst	: JRR
Phosphorus, Total (As P)	47	0.50	D	mg/L	1	3/20/2019 10:00:00 AM	43781
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	470	10	D	mg/L	1	3/26/2019 4:00:00 PM	43869

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- W Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1903742

01-Apr-19

Client: EA Engineering Alb

**Project:** Organ Dairy

Sample ID: MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R58427 RunNo: 58427

Prep Date: Analysis Date: 3/15/2019 SeqNo: 1960653 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Chloride
 ND
 0.50

 Nitrogen, Nitrate (As N)
 ND
 0.10

Sample ID: LCS SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R58427 RunNo: 58427

Prep Date: Analysis Date: 3/15/2019 SeqNo: 1960654 Units: mg/L

%REC Analyte Result PQL SPK value SPK Ref Val LowLimit HighLimit %RPD **RPDLimit** Qual 90 Chloride 4.8 0.50 5.000 0 95.9 110 Nitrogen, Nitrate (As N) 2.5 2.500 0 101 90 110 0.10

# Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1903742** 

01-Apr-19

**Client:** EA Engineering Alb

**Project:** Organ Dairy

Sample ID: MB-43781 SampType: MBLK TestCode: EPA Method 365.1: Total Phosphorous

Client ID: PBW Batch ID: 43781 RunNo: 58514

Prep Date: 3/19/2019 Analysis Date: 3/20/2019 SeqNo: 1964074 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Phosphorus, Total (As P) ND 0.010

Sample ID: LCS-43781 SampType: LCS TestCode: EPA Method 365.1: Total Phosphorous

Client ID: LCSW Batch ID: 43781 RunNo: 58514

Prep Date: 3/19/2019 Analysis Date: 3/20/2019 SeqNo: 1964075 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Phosphorus, Total (As P) 0.26 0.010 0.2500 0 105 90 110

# Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1903742

01-Apr-19

**Client:** EA Engineering Alb

**Project:** Organ Dairy

Sample ID: MB-43790 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43790 RunNo: 58542

Prep Date: 3/20/2019 Analysis Date: 3/21/2019 SeqNo: 1965618 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43790 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43790 RunNo: 58542

Prep Date: 3/20/2019 Analysis Date: 3/21/2019 SeqNo: 1965619 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

# Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1903742

01-Apr-19

**Client:** EA Engineering Alb

**Project:** Organ Dairy

Sample ID: MB-43869 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43869 RunNo: 58666

Prep Date: 3/25/2019 Analysis Date: 3/26/2019 SeqNo: 1970219 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43869 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43869 RunNo: 58666

Prep Date: 3/25/2019 Analysis Date: 3/26/2019 SeqNo: 1970220 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 104 80 120

# Qualifiers:

\* Value exceeds Maximum Contaminant Level.

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: EA Engineering Alb Work Order Number: 1903742 RcptNo: 1 Victoria Bellar Received By: Victoria Zellar 3/15/2019 8:40:00 AM Completed By: Yazmine Garduno 3/15/2019 10:46:24 AM Magniou Colondario 3/15/19 Reviewed By: LB: DAD 3/15/19 Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? <u>FedEx</u> 3. Was an attempt made to cool the samples? No 🗌 NA 🗌 Yes 🗸 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 No 🗌 6. Sufficient sample volume for indicated test(s)? No 🗌 Yes 🗸 No 🗌 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No 🗸 8. Was preservative added to bottles? Yes NA 🗌 9. VOA vials have zero headspace? Yes No 🗌 No VOA Vials Yes  $\square$ No 🗸 10. Were any sample containers received broken? # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) NO Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? Yes 🗸 No  $\square$ Checked by: DAD 3/15/19 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: By Whom: ech Regarding: ztra Kitric Personed Buttle Client Instructions: Despose 16. Additional remarks: 17. Cooler Information Temp °C Cooler No Condition Seal Intact Seal No Seal Date Signed By 4.8 Good Yes

O	hain	-of-Cu	Chain-of-Custody Record	Turn-Around Time:	ime:	Standard		100	Ī		Z	HALL FNVTRONMENTAL	2			
Client:	EA Engin	eering, Sci	EA Engineering, Science, and Technology	A Standard	□ Rush			1 [	4	A	YSI	ANALYSIS LABORATORY	OR.	A	S N	
			8	Project Name:					Š	w.hall	environ	www.hallenvironmental.com	٤			
Mailing Add	ress: 320 Gold	d Ave SW Suite	Mailing Address: 320 Gold Ave SW Suite 1300 Albuquerque, NM, 87102	)	Organ Dairy		49(	)1 Ha	wkins	4901 Hawkins NE -	Albuqu	Albuquerque, NM 87109	18710	6		
				Project #:			Tel.	1. 505	505-345-3975	3975	Fax	505-345-4107	1107			7
Phone #:	#	505-715-4279	4279							Ā	nalysis	Analysis Request				
email or Fax#:	r Fax#:	rmullen@	rmullen@eaest.com	Project Manager:	er:		0.0									
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Date	Time	Matrix	Sample Request ID	Container Fype and #	Preservative Type	HEAL NO.	Nitrate/Nit	TKN SM 4	Chloride E	Sulfate	Рһоѕрһоги					Air Bubble
1479	5511	y	lagen	W		-001	×	X	X		×					
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Date:	Time:	Relinquished by:	ed by:	Received by:	1											
	27	7														1
	If necessary	, samples suk	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	ontracted to other acc	redited laboratorie	ss. This serves as notice of this	possibility.	Any suk	-contrac	ted data	vill be clea	rly notated on t	the analy	tical repo	ř.	



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 18, 2019

Regina Mullen
EA Engineering Alb
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX:

RE: Mountain View Dairy OrderNo.: 1902B25

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 6 sample(s) on 2/27/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

# Lab Order **1902B25**Date Reported: **3/18/2019**

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: LRG-00457 Pivot

Project: Mountain View Dairy

Lab ID: 1902B25-001

Matrix: AQUEOUS

Collection Date: 2/26/2019 10:13:00 AM

Received Date: 2/27/2019 8:50:00 AM

**Analyses** Result **RL Qual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 100 2/27/2019 3:40:58 PM R58009 1400 50 mg/L Nitrogen, Nitrite (As N) ND 1.0 mg/L 10 2/27/2019 3:28:06 PM R58009 Nitrogen, Nitrate (As N) 2/27/2019 3:28:06 PM R58009 11 1.0 mg/L SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS **Total Dissolved Solids** 3890 20.0 mg/L 1 3/3/2019 7:24:00 PM 43448 SM 4500 NORG C: TKN Analyst: **OG** Nitrogen, Kjeldahl, Total ND 3/5/2019 11:00:00 AM 2.0 D mg/L 43461

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 9
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND PQL	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

# Lab Order **1902B25**Date Reported: **3/18/2019**

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: LRG-00457-S-Flood

Project:Mountain View DairyCollection Date: 2/26/2019 10:22:00 AMLab ID:1902B25-002Matrix: AQUEOUSReceived Date: 2/27/2019 8:50:00 AM

Analyses	Result	RL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: <b>smb</b>
Nitrogen, Nitrite (As N)	ND	1.0	mg/L	10	2/27/2019 3:53:50 PM	R58009
Nitrogen, Nitrate (As N)	2.3	1.0	mg/L	10	2/27/2019 3:53:50 PM	R58009
SM 4500 NORG C: TKN					Analys	t: <b>OG</b>
Nitrogen, Kjeldahl, Total	ND	1.0	mg/L	1	3/5/2019 11:00:00 AM	43461

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	Е	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 9
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

# Lab Order **1902B25**Date Reported: **3/18/2019**

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 70-01

Project:Mountain View DairyCollection Date: 2/26/2019 12:58:00 PMLab ID:1902B25-003Matrix: AQUEOUSReceived Date: 2/27/2019 8:50:00 AM

**Analyses** Result **RL Qual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 100 2/27/2019 4:58:08 PM R58009 840 50 mg/L Nitrogen, Nitrite (As N) ND 1.0 mg/L 2/27/2019 4:45:17 PM R58009 Nitrogen, Nitrate (As N) 1.0 2/27/2019 4:45:17 PM R58009 33 mg/L 670 50 100 2/27/2019 4:58:08 PM R58009 mg/L **SM2540C MOD: TOTAL DISSOLVED SOLIDS** Analyst: KS **Total Dissolved Solids** 3/3/2019 7:24:00 PM 3390 20.0 mg/L 43448 SM 4500 NORG C: TKN Analyst: **OG** Nitrogen, Kjeldahl, Total ND 5.0 D mg/L 3/5/2019 11:00:00 AM 43461

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	Е	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 9
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

# **Analytical Report**Lab Order **1902B25**

Date Reported: 3/18/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 70-02

Project:Mountain View DairyCollection Date: 2/26/2019 11:14:00 AMLab ID:1902B25-004Matrix: AQUEOUSReceived Date: 2/27/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	780	50		mg/L	100	2/27/2019 5:23:52 PM	R58009
Nitrogen, Nitrite (As N)	ND	1.0		mg/L	10	2/27/2019 5:11:01 PM	R58009
Nitrogen, Nitrate (As N)	32	1.0	*	mg/L	10	2/27/2019 5:11:01 PM	R58009
Sulfate	500	5.0		mg/L	10	2/27/2019 5:11:01 PM	R58009
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	KS
Total Dissolved Solids	3030	20.0	*	mg/L	1	3/3/2019 7:24:00 PM	43448
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/5/2019 11:00:00 AM	43461

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 9
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

# **Analytical Report**Lab Order **1902B25**

#### Date Reported: 3/18/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 70-03

Project:Mountain View DairyCollection Date: 2/26/2019 9:51:00 AMLab ID:1902B25-005Matrix: AQUEOUSReceived Date: 2/27/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	3000	100		mg/L	200	3/6/2019 12:19:22 AM	R58153
Nitrogen, Nitrite (As N)	1.2	1.0		mg/L	10	2/27/2019 5:36:44 PM	R58009
Nitrogen, Nitrate (As N)	51	1.0	*	mg/L	10	2/27/2019 5:36:44 PM	R58009
Sulfate	1300	50		mg/L	100	2/27/2019 5:49:37 PM	R58009
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: KS
Total Dissolved Solids	7320	20.0	*	mg/L	1	3/3/2019 7:24:00 PM	43448
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/5/2019 11:00:00 AM	43461

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	Е	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 9
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

# Analytical Report Lab Order 1902B25

## Date Reported: 3/18/2019

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 70-04

Project:Mountain View DairyCollection Date: 2/26/2019 12:22:00 PMLab ID:1902B25-006Matrix: AQUEOUSReceived Date: 2/27/2019 8:50:00 AM

**Analyses** Result **RL Qual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 100 2/27/2019 6:15:21 PM R58009 720 50 mg/L Nitrogen, Nitrite (As N) ND 1.0 mg/L 2/27/2019 6:02:29 PM R58009 Nitrogen, Nitrate (As N) 25 1.0 2/27/2019 6:02:29 PM R58009 mg/L 570 50 100 2/27/2019 6:15:21 PM R58009 mg/L **SM2540C MOD: TOTAL DISSOLVED SOLIDS** Analyst: KS **Total Dissolved Solids** 3/3/2019 7:24:00 PM 3020 \*D mg/L 43448 100 SM 4500 NORG C: TKN Analyst: **OG** Nitrogen, Kjeldahl, Total ND 5.0 D mg/L 3/5/2019 11:00:00 AM 43461

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	Е	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 9
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1902B25

18-Mar-19

Client:	EA Engineering All	b								
Project:	Mountain View Dai	iry								
Sample ID: MB	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	300.0: Anions	<b>S</b>		
Client ID: PBW	Batch	n ID: <b>R5</b>	8009	F	tunNo: 5	8009				
Prep Date:	Analysis D	Date: 2/	27/2019	S	SeqNo: 1	942433	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								
Sample ID: LCS	SampT	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID: LCSW	Batch	n ID: <b>R5</b>	8009	F	tunNo: 5	8009				
Prep Date:	Analysis D	Date: 2/	27/2019	S	942434	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.5	0.50	5.000	0	90.9	90	110			
Nitrogen, Nitrite (As N)	0.92	0.10	1.000	0	91.9	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	95.8	90	110			
Sulfate	9.6	0.50	10.00	0	95.5	90	110			
Sample ID: MB	SampT	ype: <b>m</b> k	olk	Tes	tCode: El	PA Method	300.0: Anions	S		
Client ID: PBW	Batch	n ID: <b>R5</b>	8153	F	tunNo: 5	8153				
Prep Date:	Analysis D	Date: 3/	6/2019	S	SeqNo: 1	950327	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sample ID: LCS	SampT	ype: <b>Ics</b>	3	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID: LCSW	Batch	n ID: <b>R5</b>	8153	F	tunNo: 5	8153				
Prep Date:	Analysis D			_	SeqNo: 19		Units: mg/L			

SPK value SPK Ref Val

5.000

#### Qualifiers:

Analyte

Chloride

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Η Holding times for preparation or analysis exceeded

Result

0.50

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

Value above quantitation range

%REC

LowLimit

HighLimit

%RPD

**RPDLimit** 

Qual

J Analyte detected below quantitation limits

Page 7 of 9

P Sample pH Not In Range

Reporting Detection Limit RL

Sample container temperature is out of limit as specified

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 1902B25

18-Mar-19

**Client:** EA Engineering Alb **Project:** Mountain View Dairy

Sample ID: MB-43448 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43448 RunNo: 58065

Prep Date: 3/1/2019 Analysis Date: 3/3/2019 SeqNo: 1945962 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43448 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43448 RunNo: 58065

Prep Date: 3/1/2019 Analysis Date: 3/3/2019 SeqNo: 1945963 Units: mg/L

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte **PQL** Qual

**Total Dissolved Solids** 1020 20.0 1000 0 102 80 120

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Η

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Reporting Detection Limit

P Sample pH Not In Range

RL

Sample container temperature is out of limit as specified

Page 8 of 9

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 1902B25

18-Mar-19

Client: EA Engineering Alb
Project: Mountain View Dairy

Sample ID: MB-43461 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43461 RunNo: 58137

Prep Date: 3/1/2019 Analysis Date: 3/5/2019 SeqNo: 1949479 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43461 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43461 RunNo: 58137

Prep Date: 3/1/2019 Analysis Date: 3/5/2019 SeqNo: 1949480 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 104 80 120

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

D C 1 HN 1 D

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 9 of 9



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name:	EA Engineer	ring Alb	Work Or	der Number	: 190	2B25			RcptNo:	1
									<b>1</b>	
Received By:	Isaiah Ortiz	!	2/27/2019	8:50:00 AM			<sub>emb</sub>	C	W.	
Completed By:	Isaiah Ortiz	-	2/27/2019				:7		24	
	ENM		2/27/6	1						
Chain of Cus	DAD 2/3	27/19								
1. Is Chain of C	ustody comple	te?			Yes	V	N	<b></b>	Not Present	
2. How was the	sample delive	red?			Fedi	<u> </u>				
<u>Log In</u>										
3. Was an atten	npt made to co	ol the samples?			Yes	<b>V</b>	No		NA 🗆	
4. Were all sam	ples received a	at a temperature o	f>0°C to 6	.0°C	Yes	<b>7</b>	No	<b>□</b>	NA 🗀	
	•									
5. Sample(s) in	proper contain	er(s)?			Yes	✓	No	<b>,</b> ∐		
6. Sufficient sam	nple volume for	rindicated test(s)?	?		Yes	V	No			
7, Are samples (	(except VOA a	nd ONG) properly	preserved?		Yes	<b>✓</b>	No			
8. Was preserva	itive added to b	oottles?			Yes		No	<b>V</b>	NA 🗆	
9. VOA vials hav	/e zero headsp	ace?			Yes		No		No VOA Vials <b>✓</b>	
10. Were any sar	mple containers	s received broken	?		Yes		No	<b>V</b>		7.1
									# of preserved bottles checked	e
11. Does paperwo	ork match bottl ancies on chair				Yes	✓	No		for pH: (	>12 unless noted)
12. Are matrices of			ustody?		Yes	<b>V</b>	No			VO
13. Is it clear wha					Yes	<b>V</b>			<u> </u>	
14. Were all holdi						✓	No		Checked by: D	AD 2/27/19
(If no, notify co	ustomer for au	thorization.)						!		
Special Handl	ling (if appl	icable)								
15. Was client no	otified of all dise	crepancies with th	is order?		Yes		No	, [	NA 🗹	
Person	Notified:			Date:						
By Who	om:			Via:	eM	ail 🗀	] Phone [	Fax	In Person	
Regard	ing:									
Client II	nstructions:			· · · · · · · · · · · · · · · · · · ·						
16. Additional re	marks:						<del> </del>			ı
17. Cooler Infor	<u>rmation</u>									
Cooler No		Gondition Sea	al Intact S	eal No 🕒 S	Seal D	ate	Signed	Ву		
1	0.0	Good Yes								

O	hain	of-Cu	Chain-of-Custody Record	Turn-Around Time:	Time:				2	<	Ī	MATE	LAIL ENVIDONMENTA	-	
Client:	1000	neering, Sci	EA Engineering, Science, and Technology	政 Standard	□ Rush		<u></u>	V	•	Z	ANALYSIS	SIAIS	LABORATORY	ORY	
				Project Name:	ai			90		ww.	allenviro	www.hallenvironmental.com	ш		
Mailing Add	iress: 320 Golk	d Ave SW Suite	Mailing Address: 320 Gold Ave SW Suite 1300 Albuquarque, NM, 87102		Mountain View Dairy	ew Dairy	4	301 F	lawki	IS NE	- Albuq	4901 Hawkins NE - Albuquerque, NM 87109	M 87109		
				Project #;				el. 5	5-34	Tel. 505-345-3975	5 Fax	Fax 505-345-4107	4107		
Phone #:	#	505-715-4279	-4279								Analysi	Analysis Request			77.7
email o	email or Fax#:	rmullen@	rmullen@eaest.com	Project Manager:	iger:		0.0								
QA/QC Packa	QA/QC Package:		☐ Level 4 (Full Validation)		Gina Mullen		08 bort			-	ac				
Accreditation:	itation: AP	□ Other		Sampler: Ju On Ice:	Justin Vesque	rez □ No	∍M Aq		0.00	000000		V.60 V		(1/1)	(NI JO
O ED	□ EDD (Type)				Temperature: (	2.Q.C	3 91		ε Α.		365.75			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(1)
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	Nitrate/Nitri	TKN SM 45	Chloride EP	TDS SM 25	Sulfate EPA	Phosphorus Total Sulfur		səlddu8 viA	Air Bubbles
61-n-1	1013	3	LR6-coust Pivot	Ч		- 8	×	X	Ŋ	×					
-	1022	-	. 1	2		- 80 2	8	×	X	X					
	1258		10.02	7		500-	X	X	×	×			0 -	83	
	11:14		79-02	7		-00¢	K	X	×	×					
-	15.6	_	70-03	ы		-005	×	X	×	×	200.0				
-	12:25	4	40.01	7		990-	X	X	×	×					
								$\perp$		+					
										+					
Date:	Time.	Relinquished by	ed by	Received by:	2 xycz	61	Remarks:	- CO. C	the	Je - 2.	per Justin	57 July 100.			
Date:	Time:	Relinquished by:	ed by:	Received by:		Date Time	500	44	Jun 66.15 1.4	2	6	g 2/28/19	6.		
	If necessary	r, samples sur	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	contracted to other a	occedited laboratori	es. This serves as notice of thi	s possibility	Anys	np-cou	racted d	ata will be cle	arly notated o	n the analytical repo	ort.	



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 07, 2019

Regina Mullen
EA Engineering Alb
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX:

RE: Organ Dairy OrderNo.: 1902A23

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 7 sample(s) on 2/23/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1902A23**Date Reported: **3/7/2019** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: LRG-4585

**Project:** Organ Dairy
 Collection Date: 2/22/2019 12:46:00 PM

 **Lab ID:** 1902A23-001
 Matrix: AQUEOUS
 Received Date: 2/23/2019 12:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	smb
Chloride	1200	50		mg/L	100	2/28/2019 11:27:32 AM	R58039
Nitrate+Nitrite as N	10	1.0	*	mg/L	5	2/28/2019 2:40:31 PM	R58039
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	KS
Total Dissolved Solids	3190	20.0	*	mg/L	1	2/28/2019 4:35:00 PM	43374
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/4/2019 5:00:00 PM	43460

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 10
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

# Lab Order **1902A23**Date Reported: **3/7/2019**

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 126-04

**Project:** Organ Dairy
 Collection Date: 2/22/2019 11:25:00 AM

 **Lab ID:** 1902A23-002
 Matrix: AQUEOUS
 Received Date: 2/23/2019 12:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	650	50		mg/L	100	2/28/2019 11:53:15 AM	R58039
Sulfate	450	50		mg/L	100	2/28/2019 11:53:15 AM	R58039
Nitrate+Nitrite as N	24	1.0	*	mg/L	5	2/28/2019 2:53:22 PM	R58039
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	KS
Total Dissolved Solids	2370	40.0	*D	mg/L	1	2/28/2019 4:35:00 PM	43374
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/4/2019 5:00:00 PM	43460

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 10
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

Lab Order **1902A23**Date Reported: **3/7/2019** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 126-05

**Project:** Organ Dairy
 Collection Date: 2/22/2019 12:07:00 PM

 **Lab ID:** 1902A23-003
 Matrix: AQUEOUS
 Received Date: 2/23/2019 12:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	950	50		mg/L	100	2/28/2019 12:18:59 PM	R58039
Sulfate	750	50		mg/L	100	2/28/2019 12:18:59 PM	R58039
Nitrate+Nitrite as N	18	1.0	*	mg/L	5	2/28/2019 3:06:14 PM	R58039
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	KS
Total Dissolved Solids	3810	40.0	*D	mg/L	1	2/28/2019 4:35:00 PM	43374
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/4/2019 5:00:00 PM	43460

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 10
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

Lab Order **1902A23**Date Reported: **3/7/2019** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 126-07

**Project:** Organ Dairy
 Collection Date: 2/22/2019 11:05:00 AM

 **Lab ID:** 1902A23-004
 Matrix: AQUEOUS
 Received Date: 2/23/2019 12:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	790	50		mg/L	100	2/28/2019 12:44:43 PM	R58039
Sulfate	650	50		mg/L	100	2/28/2019 12:44:43 PM	R58039
Nitrate+Nitrite as N	30	1.0	*	mg/L	5	2/28/2019 3:57:41 PM	R58039
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	KS
Total Dissolved Solids	3030	40.0	*D	mg/L	1	2/28/2019 4:35:00 PM	43374
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/4/2019 5:00:00 PM	43460

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 10
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Lab Order **1902A23**Date Reported: **3/7/2019**

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 126-09

**Project:** Organ Dairy
 Collection Date: 2/22/2019 10:26:00 AM

 **Lab ID:** 1902A23-005
 Matrix: AQUEOUS
 Received Date: 2/23/2019 12:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	200	50		mg/L	100	2/28/2019 1:36:12 PM	R58039
Sulfate	140	5.0		mg/L	10	2/28/2019 1:23:19 PM	R58039
Nitrate+Nitrite as N	ND	1.0		mg/L	5	2/28/2019 4:10:33 PM	R58039
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	KS
Total Dissolved Solids	888	40.0	*D	mg/L	1	2/28/2019 4:35:00 PM	43374
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/4/2019 5:00:00 PM	43460

-				
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 10
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1902A23**Date Reported: **3/7/2019** 

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering Alb Client Sample ID: 126-12

**Project:** Organ Dairy
 Collection Date: 2/22/2019 12:30:00 PM

 **Lab ID:** 1902A23-006
 Matrix: AQUEOUS
 Received Date: 2/23/2019 12:40:00 PM

Analyses	Result	RL	Qual	Units	DF 1	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	370	50		mg/L	100	2/28/2019 2:01:56 PM	R58039
Sulfate	560	50		mg/L	100	2/28/2019 2:01:56 PM	R58039
Nitrate+Nitrite as N	8.2	1.0		mg/L	5	2/28/2019 4:23:26 PM	R58039
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: KS
Total Dissolved Solids	2270	40.0	*D	mg/L	1	2/28/2019 4:35:00 PM	43374
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	1.3	1.0		mg/L	1	3/4/2019 5:00:00 PM	43460

_				
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 10
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	5	70 Recovery outside of range due to dilution of matrix	**	bample container temperature is out of mint as specified

# Lab Order **1902A23**Date Reported: **3/7/2019**

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering Alb Client Sample ID: 126-13

**Project:** Organ Dairy
 Collection Date: 2/22/2019 10:51:00 AM

 **Lab ID:** 1902A23-007
 Matrix: AQUEOUS
 Received Date: 2/23/2019 12:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: smb
Chloride	990	50		mg/L	100	2/28/2019 2:27:39 PM	R58039
Sulfate	770	50		mg/L	100	2/28/2019 2:27:39 PM	R58039
Nitrate+Nitrite as N	39	2.0	*	mg/L	10	3/4/2019 5:33:51 PM	R58107
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: KS
Total Dissolved Solids	3620	100	*D	mg/L	1	2/28/2019 4:35:00 PM	43374
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/4/2019 5:00:00 PM	43460

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s specified

#### Hall Environmental Analysis Laboratory, Inc.

3.6

0.20

3.500

WO#: 1902A23

07-Mar-19

**Client:** EA Engineering Alb

**Project:** Organ Dairy

Sample ID: MB	Sample ID: MB SampType: MBLK TestCode: EPA Method 300.0: Anions									
Client ID: PBW	Batch	n ID: <b>R5</b>	8039	F	RunNo: 5	8039				
Prep Date:	Analysis D	Date: <b>2/</b>	28/2019	5	SeqNo: 1	944952	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								
Sample ID: LCS	SampT	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID: LCSW	Batch	n ID: <b>R5</b>	8039	F	RunNo: 5	8039				
Prep Date:	Analysis D	Date: 2/	28/2019	S	SeqNo: 1	944953	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.9	90	110			
Sulfate	10	0.50	10.00	0	101	90	110			
Nitrate+Nitrite as N	3.5	0.20	3.500	0	99.7	90	110			
Sample ID: MR	CT	VDA: ME		Too	tCada: FI	DA Mathad	300 O: Anione	_		

Sample ID: MB	SampT	уре: <b>МЕ</b>	BLK	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID: PBW	Batch	ID: <b>R5</b>	8107	F	RunNo: 5	8107				
Prep Date:	Analysis D	ate: 3/	4/2019	8	SeqNo: 1	948425	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Sample ID: LCS	SampType: <b>LCS</b>	TestCode: EPA Method 300.0: Anions
Client ID: LCSW	Batch ID: <b>R58107</b>	RunNo: <b>58107</b>
Prep Date:	Analysis Date: 3/4/2019	SeqNo: 1948426 Units: mg/L
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

102

110

#### Qualifiers:

Nitrate+Nitrite as N

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

Е Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

Reporting Detection Limit RLSample container temperature is out of limit as specified Page 8 of 10

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1902A23** 

07-Mar-19

Client: EA Engineering Alb

**Project:** Organ Dairy

Sample ID: MB-43374 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43374 RunNo: 58019

Prep Date: 2/27/2019 Analysis Date: 2/28/2019 SeqNo: 1942827 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43374 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43374 RunNo: 58019

Prep Date: 2/27/2019 Analysis Date: 2/28/2019 SeqNo: 1942828 Units: mg/L

SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result **PQL** Qual Total Dissolved Solids 1010 20.0 1000 0 101 120

Sample ID: 1902A23-001ADUP SampType: DUP TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LRG-4585 Batch ID: 43374 RunNo: 58019

Prep Date: 2/27/2019 Analysis Date: 2/28/2019 SeqNo: 1942844 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 3150 20.0 1.39 10 \*

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 9 of 10

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 1902A23

07-Mar-19

**Client:** EA Engineering Alb

**Project:** Organ Dairy

Sample ID: MB-43460 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43460 RunNo: 58101

Prep Date: 3/1/2019 Analysis Date: 3/4/2019 SeqNo: 1947962 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

ND Nitrogen, Kjeldahl, Total 1.0

Sample ID: LCS-43460 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43460 RunNo: 58101

Prep Date: 3/1/2019 Analysis Date: 3/4/2019 SeqNo: 1947963 Units: mg/L

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 104 120

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Page 10 of 10

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: EA Engineering Alb	Work Order Num	ber: 1902A23		RcptNo	: 1
Received By: Erin Melendrez	2/23/2019 12:40:0	PM	MUL	ブ	·
Completed By: Erin Melendrez	2/23/2019 1:08:01	РМ	UNA UNA	<del>-</del>	
Reviewed By: DAD 2/25/19  B: 10 2/25/19	_				
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		<u>FedEx</u>			
<u>Log In</u>					
3. Was an attempt made to cool the samples?	?	Yes 🗹	No 🗌	NA 🗆	
4. Were all samples received at a temperature	e of >0° C to 6.0°C	Yes 🗹	No 🗆	NA $\square$	
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sample volume for indicated test(s	s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and ONG) proper	rly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes	No 🗹	na 🗆	
9. VOA vials have zero headspace?		Yes	No 🗌	No VOA Vials 🗹	
10. Were any sample containers received broke	en?	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	bottles checked for pH:	7 >12 unless noted)
2. Are matrices correctly identified on Chain of	Custody?	Yes 🗹	No 🗌	Adjusted?	70
13. Is it clear what analyses were requested?		Yes 🗸	No 🗆		•
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗆	Checked by:	10 2 25/19
Special Handling (if applicable)					
15. Was client notified of all discrepancies with	this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified:  By Whom:  Regarding:	Date Via:	P	hone  Fax	☐ In Person	
Client Instructions:					
16. Additional remarks:					
17. Cooler Information	. wa spingarganga (Sp. MIIIA 5)   1 - 300 MIIIA 1	a solitore and solitore	200		
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	ANALYSIS LABORATORY	) ! ! ,	_																						
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	S	www.hallenvironmental.com	dnerc	Fax 505-345-4107	Analysis Request			80	109 A	43	Phosphorus														
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Chain-of-Custody Record	EA Engineering, Science, and Technology		Mailing Address: 320 Gold Ave SW Suite 1300 Albuquerque, NM, 87102		505-715-4279	rmullen@eaest.com			□ Other	-	Matrix	3	3	_	-				<b>P</b>			'		Relinquished by:	Relinquished by:
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	Client:		Mailing		Phol	ema	OAK	□ S	Acc		Date	11-22-					-		-	<b>†</b>			-	Date:	Date:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 12, 2019

Regina Mullen
EA Engineering Alb
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL:
FAX

RE: Sunset Dairy Desertland OrderNo.: 1903067

#### Dear Regina Mullen:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/2/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

# Lab Order **1903067**Date Reported: **3/12/2019**

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 257-01

Project:Sunset Dairy DesertlandCollection Date: 3/1/2019 11:29:00 AMLab ID:1903067-001Matrix: AQUEOUSReceived Date: 3/2/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	900	50		mg/L	100	3/6/2019 4:36:55 PM	R58184
Sulfate	680	50		mg/L	100	3/6/2019 4:36:55 PM	R58184
Nitrate+Nitrite as N	42	2.0	*	mg/L	10	3/7/2019 11:47:06 PM	A58208
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	CJS
Total Dissolved Solids	3620	40.0	*D	mg/L	1	3/8/2019 2:13:00 PM	43568
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	5.0	D	mg/L	1	3/10/2019 3:30:00 PM	43590

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 8
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Lab Order **1903067**Date Reported: **3/12/2019**

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 257-02

Project:Sunset Dairy DesertlandCollection Date: 3/1/2019 11:01:00 AMLab ID:1903067-002Matrix: AQUEOUSReceived Date: 3/2/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	690	50		mg/L	100	3/6/2019 5:02:39 PM	R58184
Sulfate	450	50		mg/L	100	3/6/2019 5:02:39 PM	R58184
Nitrate+Nitrite as N	8.7	1.0		mg/L	5	3/6/2019 10:11:27 PM	R58184
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	CJS
Total Dissolved Solids	2570	20.0	*	mg/L	1	3/8/2019 2:13:00 PM	43568
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/10/2019 3:30:00 PM	43590

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 8
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# **Analytical Report**Lab Order **1903067**

Date Reported: 3/12/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering Alb Client Sample ID: 257-03

Project:Sunset Dairy DesertlandCollection Date: 3/1/2019 11:55:00 AMLab ID:1903067-003Matrix: AQUEOUSReceived Date: 3/2/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	710	50		mg/L	100	3/6/2019 5:28:23 PM	R58184
Sulfate	470	50		mg/L	100	3/6/2019 5:28:23 PM	R58184
Nitrate+Nitrite as N	12	1.0	*	mg/L	5	3/6/2019 10:24:19 PM	R58184
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	: CJS
Total Dissolved Solids	2670	40.0	*D	mg/L	1	3/8/2019 2:13:00 PM	43568
SM 4500 NORG C: TKN						Analyst	: OG
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	3/10/2019 3:30:00 PM	43590

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 8
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

#### Lab Order 1903067 Date Reported: 3/12/2019

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering Alb

Client Sample ID: Sunset-LRG-3348-As

**Collection Date:** 3/1/2019 10:37:00 AM

**Project:** Sunset Dairy Desertland 1903067-004 Lab ID: Matrix: AQUEOUS Received Date: 3/2/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	420	50		mg/L	100	3/6/2019 5:54:07 PM	R58184
Nitrate+Nitrite as N	1.3	1.0		mg/L	5	3/6/2019 10:37:10 PM	R58184
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	CJS
Total Dissolved Solids	1620	20.0	*	mg/L	1	3/8/2019 2:13:00 PM	43568
SM 4500 NORG C: TKN						Analyst:	OG
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/10/2019 3:30:00 PM	43590

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 8
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	D     Sample Diluted Due to Matrix     E       H     Holding times for preparation or analysis exceeded     J       ND     Not Detected at the Reporting Limit     P       PQL     Practical Quanitative Limit     RL

# Lab Order **1903067**Date Reported: **3/12/2019**

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EA Engineering Alb Client Sample ID: Desertland-LRG-3348-B

Project:Sunset Dairy DesertlandCollection Date: 3/1/2019 10:24:00 AMLab ID:1903067-005Matrix: AQUEOUSReceived Date: 3/2/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	340	50		mg/L	100	3/6/2019 6:45:35 PM	R58184
Nitrate+Nitrite as N	ND	1.0		mg/L	5	3/6/2019 10:50:02 PM	R58184
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst	CJS
Total Dissolved Solids	1360	20.0	*	mg/L	1	3/8/2019 2:13:00 PM	43568
SM 4500 NORG C: TKN						Analyst	OG
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	3/10/2019 3:30:00 PM	43590

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 8
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1903067

12-Mar-19

Client:	EA Engineering Alb
<b>Project:</b>	Sunset Dairy Desertland

Sample ID: MB	TestCode: EPA Method 300.0: Anions									
Client ID: PBW	Batch	ID: <b>R5</b>	8184	R	tunNo: 58	8184				
Prep Date:	Analysis D	ate: 3/	6/2019	S	SeqNo: 19	951427	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: LCS	SampT	ype: Ics		TestCode: EPA Method 300.0: Anions							
Client ID: LCSW	Batch	ID: <b>R5</b>	8184	F	RunNo: 58	8184					
Prep Date:	Analysis D	ate: 3/0	6/2019	S	SeqNo: 19	951428	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	4.9	0.50	5.000	0	98.1	90	110				
Sulfate	10	0.50	10.00	0	102	90	110				
Nitrate+Nitrite as N	3.6	0.20	3.500	0	103	90	110				

Sample ID: MB SampType: mblk						PA Method	TestCode: EPA Method 300.0: Anions							
Client ID: PBW	Batch	ID: <b>A5</b>	8208	F	RunNo: 5	8208								
Prep Date:	Analysis D	ate: <b>3/</b>	7/2019	S	SeqNo: 1952281									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Nitrate+Nitrite as N	ND	0.20												

Sample ID: LCS SampType: Ics					TestCode: EPA Method 300.0: Anions					
Client ID: LCSW	Batch	1D: <b>A5</b>	8208	F	RunNo: 5	8208				
Prep Date:	Analysis D	ate: 3/	7/2019	SeqNo: 1952282			Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.5	0.20	3.500	0	99.3	90	110			

#### NOTES:

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

Reporting Detection Limit RL

Sample container temperature is out of limit as specified

Page 6 of 8

<sup>\*</sup> A cleanup step was performed on the extract before analysis.

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 1903067

12-Mar-19

**Client:** EA Engineering Alb **Project:** Sunset Dairy Desertland

Sample ID: MB-43568 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 43568 RunNo: 58225

Analysis Date: 3/8/2019 Prep Date: 3/7/2019 SeqNo: 1953048 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Total Dissolved Solids ND 20.0

Sample ID: LCS-43568 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 43568 RunNo: 58225

Prep Date: 3/7/2019 Analysis Date: 3/8/2019 SeqNo: 1953049 Units: mg/L

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual

Total Dissolved Solids 995 20.0 1000 0 99.5 120

Sample ID: 1903067-004ADUP SampType: DUP TestCode: SM2540C MOD: Total Dissolved Solids

Sunset-LRG-3348-A Batch ID: 43568 RunNo: 58225

Prep Date: 3/7/2019 Analysis Date: 3/8/2019 SeqNo: 1953057 Units: mg/L

SPK value SPK Ref Val %REC LowLimit Result **PQL** HighLimit %RPD **RPDLimit** Analyte Qual

Total Dissolved Solids 1620 20.0 0.123

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Η

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

P

Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Page 7 of 8

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1903067** 

12-Mar-19

Client: EA Engineering Alb
Project: Sunset Dairy Desertland

Sample ID: MB-43590 SampType: MBLK TestCode: SM 4500 Norg C: TKN

Client ID: PBW Batch ID: 43590 RunNo: 58241

Prep Date: 3/8/2019 Analysis Date: 3/10/2019 SeqNo: 1953306 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total ND 1.0

Sample ID: LCS-43590 SampType: LCS TestCode: SM 4500 Norg C: TKN

Client ID: LCSW Batch ID: 43590 RunNo: 58241

Prep Date: 3/8/2019 Analysis Date: 3/10/2019 SeqNo: 1953307 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 102 80 120

Sample ID: 1903067-004AMS SampType: MS TestCode: SM 4500 Norg C: TKN

Client ID: Sunset-LRG-3348-A Batch ID: 43590 RunNo: 58241

Prep Date: 3/8/2019 Analysis Date: 3/10/2019 SeqNo: 1953313 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 102 75 125

Sample ID: 1903067-004AMSD SampType: MSD TestCode: SM 4500 Norg C: TKN

Client ID: Sunset-LRG-3348-A Batch ID: 43590 RunNo: 58241

Prep Date: 3/8/2019 Analysis Date: 3/10/2019 SeqNo: 1953314 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Kjeldahl, Total 10 1.0 10.00 0 102 75 125 0 20

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 8 of 8



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name:	EA Enginee	ring Alb	Work (	Order Numb	per: 1903	067			RcptNo	o: 1
Received By:	Desiree Do	minauez	3/2/2010	9:30:00 Al	м		1	_		
Completed By:	Desiree Do	_		10:05:56 A				<u> </u>		
•	To	minguez	3/3/19	10.00.30	AIVI			2		
Reviewed By:			2/3/11							
	AD 3/2	119								
Chain of Cust  1. Is Chain of Cu		nto?			Yes		No		Not Present	
							NO		Not Present	
2. How was the s	sample delive	erea?			FedE	<u>X</u>				
<u>Log In</u>										
<ol><li>Was an attem;</li></ol>	ot made to co	ool the sample	es?		Yes	✓	No		NA 🗆	
									_	
4. Were all sampl	les received	at a temperat	ure of >0° C to	6.0°C	Yes	V	No		NA □	
5. Sample(s) in p	roper contair	ner(s)?			Yes	<b>V</b>	No			
6. Sufficient samp			, .		Yes	V	No			
7. Are samples (e	xcept VOA a	ınd ONG) pro	perly preserved	<b>!</b> ?	Yes	✓				
8. Was preservati	ive added to	bottles?			Yes		No	✓	NA 🗌	
9. VOA vials have	zero heads	pace?			Yes		No		No VOA Vials 🗹	
10. Were any sam	ple containe	rs received br	oken?		Yes		No	<b>V</b>		
									# of preserved bottles checked	<u></u>
11. Does paperwor					Yes	✓	No		for pH:	5
(Note discrepar 12. Are matrices co			of Cuntodu?		Yes	<b>V</b>	No	$_{\sqcap}$		or >12 unless noted) <i>N∂</i>
13. Is it clear what						<u>~</u>	No		• -	·
14. Were all holding						<u> </u>			Checked by:	DAD 3/2/19
(If no, notify cus								Į		
Special Handlii	ng (if app	licable)								
15. Was client not	ified of all dis	crepancies w	ith this order?		Yes		No		NA 🗹	
Person N	Notified:			Date:						
By Whor	m: [			Via:	eMa	il 🗌	Phone [	Fax	In Person	
Regardir	ng:									
Client Ins	structions:									
16. Additional rem	narks:									
17. Cooler Inform	nation									
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Da	ite	Signed I	Ву		
1	1.4	Good	Not Present				W. W		- Control of the Cont	

Client: EA Engineering, Science, and Technology  Mailing Address. 320 Gold Ave SW Suite 1300 Albuquerque, NM, 87102  Proj Phone #: 505-715-4279  email or Fax#: rmullen@eaest.com  CA/QC Package:  Standard  Accreditation: Standard  Accreditation: San	Project Name:  Sur  Project #:  Project #:	□ Rush				<b>4</b>	Y Z	ANALYSIS LABORATOR		LABORATORY	Ž	Z Z	Ö	≿	
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idation)	#: Manaç						VWW.⊤	www.hallenvironmental.com	;	intal c	5				
505-715-4279 rmullen@eaest.com : □ Level 4 (Full Validation)	#: Manaç	Sunset Dairy /	Descriud	4	901 F	4901 Hawkins NE	s NE		ndner	Albuquerque, NM 87109	M 871	60			
mullen@eaest.com :: □ Level 4 (Full Validation)	ject Manager:	j			Tel 5	Tel. 505-345-3975	5-397		ax 50	Fax 505-345-4107	-4107				
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	Sampler: <i>Jusfin</i> し On tee: 成Yes	Wishor.	U No.	7N1 ∀C				0.0	109 A	•	<u> </u>			(N 2)	(
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Time Matrix Sample Request ID Co	Container Pres Type and #	Preservative Type	HEAL NO. 1903064	Nitrate/N	TKN SM	Chloride	TDS SM Sulfate E	- Online	ohqsodq Phospho	Iu& IstoT				Air Bubbi	aane mil
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1155 / 257-03	2		-003	X	<u> </u>	k	Х Х								
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