



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

November 24, 2014

Mike Butler
EPCOR Water
PO Box 370
Edgewood, NM 87015
TEL: (505) 228-6233
FAX

RE: Edgewood WWTP

OrderNo.: 1411442

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/12/2014 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 #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109



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

Case Narrative

WO#: 1411442
Date: 11/24/2014

CLIENT: EPCOR Water
Project: Edgewood WWTP

Analytical Comments Regarding BOD:
The method blank(s) had a DO depletion >0.2mg/L.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EPCOR Water
Project: Edgewood WWTP
Lab ID: 1411442-001

Matrix: AQUEOUS

Client Sample ID: Influent
Collection Date: 11/12/2014 11:00:00 AM
Received Date: 11/12/2014 3:12:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM5210B: BOD							Analyst: SMS
Biochemical Oxygen Demand	450	2.0		mg/L	1	11/18/2014 11:58:00 AM	16370
SM 4500 NORG C: TKN							Analyst: SRM
Nitrogen, Kjeldahl, Total	67	2.0		mg/L	1	11/15/2014 1:42:00 PM	16399

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		



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Est. 1970

REPORT OF ANALYSIS

November 19, 2014

Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

Date Received : November 14, 2014
Description :
Sample ID : 1411442-001C INFLUENT
Collected By :
Collection Date : 11/12/14 11:00

ESC Sample # : L733760-01
Site ID :
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	770	10.	mg/l	410.4	11/19/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 11/19/14 15:37 Printed: 11/19/14 15:37



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Hall Environmental Analysis Laboratory

4901 Hawkins NE
 Albuquerque, NM 87109

Quality Assurance Report
 Level II

L733760

November 19, 2014

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
COD	< 10	mg/l			WG755289	11/19/14 12:12

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
COD	mg/l	410	410	0.0	5	L733939-08	WG755289
COD	mg/l	9600	9600	0.0	5	L733485-01	WG755289

Analyte	Units	Laboratory Control Sample		Limit	Batch
		Known Val	Result	% Rec	
COD	mg/l	189	189	103	90-110 WG755289

Analyte	Units	Result	Ref	% Rec	Limit	RPD	Limit	Batch
COD	mg/l	189	189	103	90-110	0.0	5	WG755289

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
COD	mg/l	699	260	400	110	90-110	L733812-01	WG755289

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	% Rec					
COD	mg/l	700	699	110	90-110	0.143	5	L733812-01	WG755289

Batch number /Run number / Sample number cross reference

WG755289; R3005377; L733760-01

* * Calculations are performed prior to rounding of reported values.
 * Performance of this Analyte is outside of established criteria.
 For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411442

24-Nov-14

Client: EPCOR Water
Project: Edgewood WWTP

Sample ID	MB-16370	SampType:	MBLK	TestCode:	SM5210B: BOD					
Client ID:	PBW	Batch ID:	16370	RunNo:	22702					
Prep Date:	11/13/2014	Analysis Date:	11/18/2014	SeqNo:	669441	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	MB--16370	SampType:	MBLK	TestCode:	SM5210B: BOD					
Client ID:	PBW	Batch ID:	16370	RunNo:	22702					
Prep Date:	11/13/2014	Analysis Date:	11/18/2014	SeqNo:	669442	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	LCS-16370	SampType:	LCS	TestCode:	SM5210B: BOD					
Client ID:	LCSW	Batch ID:	16370	RunNo:	22702					
Prep Date:	11/13/2014	Analysis Date:	11/18/2014	SeqNo:	669443	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	200	2.0	198.0	0	100	89.6	126			

Sample ID	LCSD-16370	SampType:	LCSD	TestCode:	SM5210B: BOD					
Client ID:	LCSS02	Batch ID:	16370	RunNo:	22702					
Prep Date:	11/13/2014	Analysis Date:	11/18/2014	SeqNo:	669444	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	180	2.0	198.0	0	88.9	89.6	126	11.8	31.9	S

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411442

24-Nov-14

Client: EPCOR Water
Project: Edgewood WWTP

Sample ID	MB-16399	SampType:	MBLK	TestCode:	SM 4500 Norg C: TKN					
Client ID:	PBW	Batch ID:	16399	RunNo:	22554					
Prep Date:	11/14/2014	Analysis Date:	11/15/2014	SeqNo:	665114	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-16399	SampType:	LCS	TestCode:	SM 4500 Norg C: TKN					
Client ID:	LCSW	Batch ID:	16399	RunNo:	22554					
Prep Date:	11/14/2014	Analysis Date:	11/15/2014	SeqNo:	665115	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	11	1.0	10.00	0	106	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: EPCOR-EDGEWOOD

Work Order Number: 1411442

RcptNo: 1

Received by/date: [Signature] 11/12/14

Logged By: Ashley Gallegos 11/12/2014 3:12:00 PM [Signature]

Completed By: Ashley Gallegos 11/12/2014 3:14:16 PM [Signature]

Reviewed By: [Signature] 11/12/14 @ 1546

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Client

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
Samples were collected the same day and chilled.
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: 2
 (<2 or >12 unless noted)
 Adjusted? no
 Checked by: CS

Special Handling (if applicable)

- 16. 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:

17. Additional remarks:

18. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact?	Seal No.	Seal Date	Signed By
1	8.2	Good	Not Present			

Chain-of-Custody Record

Client: Epcor Water

Mailing Address: PO Box 370
Edge wood NM 87015

Phone #: 505-228-6833
 email or Fax#: mbutler@epcor.com

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation
 NELAP Other

EDD (Type)

Turn-Around Time:
 Standard Rush

Project Name:
Edgewood WWT

Project #:

Project Manager:
Mike Butler

Sampler: M. Butler

Container Type and #

Preservative Type

-001



www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
									X BOD	X LOD	X TKH

Remarks:

Date: 11/24/14 14:30 Relinquished by: [Signature]

Date: 11/24/14 15:12 Relinquished by: [Signature]

Received by: [Signature] Date: 11/24/14 2:30

Received by: [Signature] Date: 11/24/14 15:12

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



Hall Environmental Analysis Laboratory
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December 05, 2014

Mike Butler
EPCOR Water
PO Box 370
Edgewood, NM 87015
TEL: (505) 228-6233
FAX

RE: Edgewood WWTP

OrderNo.: 1412110

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/2/2014 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 #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1412110

Date Reported: 12/5/2014

CLIENT: EPCOR Water

Client Sample ID: Effluent

Project: Edgewood WWTP

Collection Date: 12/2/2014 9:40:00 AM

Lab ID: 1412110-001

Matrix: AQUEOUS

Received Date: 12/2/2014 12:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Nitrogen, Nitrite (As N)	ND	2.0		mg/L	20	12/2/2014 7:14:25 PM	R22899
Nitrogen, Nitrate (As N)	0.57	0.10		mg/L	1	12/2/2014 7:02:00 PM	R22899
SM 9223B FECAL INDICATOR: E. COLI MPN							Analyst: MRA
E. Coli	920.8	1.000		CFU/100ml	1	12/3/2014 4:46:00 PM	16642

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	



Sample Log-In Check List

Client Name: EPCOR-EDGEWOOD

Work Order Number: 1412110

RcptNo: 1

Received by/date: AGM 12/02/14

Logged By: Ashley Gallegos 12/2/2014 12:30:00 PM AG

Completed By: Ashley Gallegos 12/2/2014 3:57:53 PM AG

Reviewed By: IO 12/02/2014 @ 16:08

Chain of Custody

1. Custody seals intact on sample bottles? Yes No Not Present
2. Is Chain of Custody complete? Yes No Not Present
3. How was the sample delivered? Client

Log In

4. Was an attempt made to cool the samples? Yes No NA
5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples (except VOA and ONG) properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. VOA vials have zero headspace? Yes No No VOA Vials
11. Were any sample containers received broken? Yes No
12. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.4	Good	Not Present			

Chain-of-Custody Record

Client: Epco Water

Mailing Address: PO Box 330

Edgewood NM 87015

Phone #: 505-278-6233

email or Fax#: m.butler@epco.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation

NELAP Other _____

EDD (Type) _____

Turn-Around Time: _____

Standard Rush

Project Name: Edgewood WWT

Project #:

Project Manager: Mike Butler

Sampler: M. Butler

On Ice: Yes No

Sample Temperature: 5.4

Container Type and #

Preservative Type

HEAL No.

3-P N₂S₂O₅ 141211D

11/24 -001

Date: 12/14

Time: 1230

Date: 12/14

Time: 1230

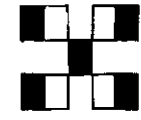
Received by: [Signature]

Date: 12/14

Received by: [Signature]

Date: 12/14

Remarks:



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMB's (8021)	
BTEX + MTBE + TPH (Gas only)	
TPH 8015B (GRO / DRO / MRO)	
TPH (Method 418.1)	
EDB (Method 504.1)	
PAH's (8310 or 8270 SIMS)	
RCRA 8 Metals	
Anions (F ⁻ , Cl ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ⁻ , SO ₄ ⁻)	
8081 Pesticides / 8082 PCB's	
8260B (VOA)	
8270 (Semi-VOA)	
<u>NO₂, NO₃</u>	<u>X</u>
<u>Ecob, ENM</u>	<u>X</u>
Air Bubbles (Y or N)	

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.



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

December 11, 2014

Mike Butler
EPCOR Water
PO Box 370
Edgewood, NM 87015
TEL: (505) 228-6233
FAX

RE: Edgewood WWTP

OrderNo.: 1411A40

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 2 sample(s) on 11/24/2014 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 #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1411A40
 Date Reported: 12/11/2014

CLIENT: EPCOR Water

Client Sample ID: Effluent

Project: Edgewood WWTP

Collection Date: 11/24/2014 2:15:00 PM

Lab ID: 1411A40-001

Matrix: AQUEOUS

Received Date: 11/24/2014 3:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	350	25	*	mg/L	50	12/2/2014 10:32:58 PM	R22899
SM5210B: BOD							Analyst: SMS
Biochemical Oxygen Demand	2.9	2.0		mg/L	1	11/30/2014 2:14:00 PM	16567
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	1300	40.0	*	mg/L	1	11/26/2014 12:03:00 PM	16563
SM 4500 NORG C: TKN							Analyst: SRM
Nitrogen, Kjeldahl, Total	1.1	1.0		mg/L	1	12/8/2014 12:13:00 PM	16666

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

Qualifiers:		
*	Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
E	Value above quantitation range	H Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EPCOR Water
Project: Edgewood WWTP
Lab ID: 1411A40-002

Matrix: AQUEOUS

Client Sample ID: Influent
Collection Date: 11/24/2014 2:15:00 PM
Received Date: 11/24/2014 3:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM5210B: BOD							Analyst: SMS
Biochemical Oxygen Demand	490	2.0		mg/L	1	11/30/2014 2:14:00 PM	16567
SM 4500 NORG C: TKN							Analyst: SRM
Nitrogen, Kjeldahl, Total	66	5.0		mg/L	1	12/8/2014 12:13:00 PM	16666

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	



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REPORT OF ANALYSIS

November 30, 2014

Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

Date Received : November 26, 2014
Description :

Sample ID : 1411A40-001C EFFLUENT

Collected By :
Collection Date : 11/24/14 14:15

ESC Sample # : L736029-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	21.	10.	mg/l	410.4	11/29/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 11/30/14 12:01 Printed: 11/30/14 12:02



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REPORT OF ANALYSIS

November 30, 2014

Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

ESC Sample # : L736029-02

Date Received : November 26, 2014
Description :
Sample ID : 1411A40-002C INFLUENT
Collected By :
Collection Date : 11/24/14 14:15

Site ID :
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	910	10.	mg/l	410.4	11/29/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 11/30/14 12:01 Printed: 11/30/14 12:02



YOUR LAB OF CHOICE

Hall Environmental Analysis Laboratory

4901 Hawkins NE
Albuquerque, NM 87109

Quality Assurance Report
Level II

L736029

12065 Lebanon Rd.
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(615) 758-5858
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

November 30, 2014

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
COD	< 10	mg/l			WG757285	11/29/14 11:17

Analyte	Units	Duplicate			Limit	Ref Samp	Batch
		Result	Duplicate	RPD			
COD	mg/l	910.	900.	1.10	5	L734069-01	WG757285
COD	mg/l	16.0	16.0	0.0	5	L736022-03	WG757285

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
COD	mg/l	183	199.	109.	90-110	WG757285

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
COD	mg/l	198.	199.	108.	90-110	0.504	5	WG757285

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
COD	mg/l	416.	7.30	400	100.	90-110	L735948-12	WG757285

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
COD	mg/l	417.	416.	102.	90-110	0.240	5	L735948-12	WG757285

Batch number / Run number / Sample number cross reference

WG757285: R3007193: L736029-01

* * Calculations are performed prior to rounding of reported values.
 * Performance of this Analyte is outside of established criteria.
 For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411A40

11-Dec-14

Client: EPCOR Water
Project: Edgewood WWTP

Sample ID MB	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R22899	RunNo: 22899								
Prep Date:	Analysis Date: 12/2/2014	SeqNo: 676194			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID LCS	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R22899	RunNo: 22899								
Prep Date:	Analysis Date: 12/2/2014	SeqNo: 676195			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	94.1	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411A40

11-Dec-14

Client: EPCOR Water
Project: Edgewood WWTP

Sample ID	MB-16567	SampType:	MBLK	TestCode:	SM5210B: BOD					
Client ID:	PBW	Batch ID:	16567	RunNo:	22900					
Prep Date:	11/25/2014	Analysis Date:	11/30/2014	SeqNo:	676266	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	MB--16567	SampType:	MBLK	TestCode:	SM5210B: BOD					
Client ID:	PBW	Batch ID:	16567	RunNo:	22900					
Prep Date:	11/25/2014	Analysis Date:	11/30/2014	SeqNo:	676267	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	LCS-16567	SampType:	LCS	TestCode:	SM5210B: BOD					
Client ID:	LCSW	Batch ID:	16567	RunNo:	22900					
Prep Date:	11/25/2014	Analysis Date:	11/30/2014	SeqNo:	676268	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	240	2.0	198.0	0	120	89.6	126			

Sample ID	LCSD-16567	SampType:	LCSD	TestCode:	SM5210B: BOD					
Client ID:	LCSS02	Batch ID:	16567	RunNo:	22900					
Prep Date:	11/25/2014	Analysis Date:	11/30/2014	SeqNo:	676269	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	240	2.0	198.0	0	120	89.6	126	0.210	31.9	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411A40

11-Dec-14

Client: EPCOR Water
Project: Edgewood WWTP

Sample ID	MB-16563	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	PBW	Batch ID:	16563	RunNo:	22815					
Prep Date:	11/25/2014	Analysis Date:	11/26/2014	SeqNo:	673493	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-16563	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID:	16563	RunNo:	22815					
Prep Date:	11/25/2014	Analysis Date:	11/26/2014	SeqNo:	673494	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			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411A40

11-Dec-14

Client: EPCOR Water
Project: Edgewood WWTP

Sample ID	MB-16666	SampType:	MBLK	TestCode:	SM 4500 Norg C: TKN					
Client ID:	PBW	Batch ID:	16666	RunNo:	23032					
Prep Date:	12/4/2014	Analysis Date:	12/8/2014	SeqNo:	680388	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-16666	SampType:	LCS	TestCode:	SM 4500 Norg C: TKN					
Client ID:	LCSW	Batch ID:	16666	RunNo:	23032					
Prep Date:	12/4/2014	Analysis Date:	12/8/2014	SeqNo:	680389	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.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: EPCOR-EDGEWOOD Work Order Number: 1411A40 RptNo: 1

Received by/date: *[Signature]* 11/24/14

Logged By: Ashley Gallegos 11/24/2014 3:35:00 PM *[Signature]*

Completed By: Ashley Gallegos 11/24/2014 3:50:37 PM *[Signature]*

Reviewed By: *mg 11/24/14 @ LLCS*

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Client

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
 - 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- Samples were collected the same day and chilled.
- 6. Sample(s) in proper container(s)? Yes No
 - 7. Sufficient sample volume for indicated test(s)? Yes No
 - 8. Are samples (except VOA and ONG) properly preserved? Yes No
 - 9. Was preservative added to bottles? Yes No NA
 - 10. VOA vials have zero headspace? Yes No No VOA Vials
 - 11. Were any sample containers received broken? Yes No
 - 12. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
 - 13. Are matrices correctly identified on Chain of Custody? Yes No
 - 14. Is it clear what analyses were requested? Yes No
 - 15. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: 4
 (<2 or >12 unless noted)
 Adjusted? no
 Checked by: CS

Special Handling (If applicable)

- 16. 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: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	7.9	Good	Not Present			

Chain-of-Custody Record

Turn-Around Time:

Client: Erser Water

Standard Rush

Project Name:

Edgewood WWTP

Mailing Address: PO BOX 370

Edgewood NM 87015

Phone #: 505-228-6233

email or Fax#: mbutler@epcor.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation

NELAP Other

EDD (Type)

Project Manager:

Mike Butler

Sampler: M. Butler

On Ice: Yes No

Sample Temperature: 7.9

Date

Time

Matrix

Sample Request ID

Container Type and #

Preservative Type

HEAL No.

1411A40

-001

-002

Date:

Time:

Relinquished by:

[Signature]

Date:

Time:

Relinquished by:

[Signature]

Received by:

[Signature]

Date

Time

Date

Time

Remarks:

11/29/14 2:30

11/24/14 14:30

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	BOD	COD	TKN	Air Bubbles (Y or N)
											X	X	X	X

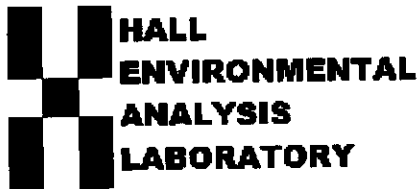
Analysis Request

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107



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

December 19, 2014

Mike Butler
EPCOR Water
PO Box 370
Edgewood, NM 87015
TEL: (505) 228-6233
FAX

RE: Edgewood WWTP

OrderNo.: 1412462

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/9/2014 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 #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109



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

Case Narrative

WO#: 1412462
Date: 12/19/2014

CLIENT: EPCOR Water
Project: Edgewood WWTP

Analytical Comments Regarding BOD:
The method blank(s) had a DO depletion >0.2mg/L.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EPCOR Water

Client Sample ID: Effluent

Project: Edgewood WWTP

Collection Date: 12/9/2014 2:30:00 PM

Lab ID: 1412462-001

Matrix: AQUEOUS

Received Date: 12/9/2014 3:55:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM 9223B FECAL INDICATOR: E. COLI MPN							Analyst: MRA
E. Coli	<1	1.000		CFU/100ml	1	12/10/2014 4:43:00 PM	16751

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1412462

Date Reported: 12/19/2014

CLIENT: EPCOR Water

Client Sample ID: Influent

Project: Edgewood WWTP

Collection Date: 12/9/2014 2:30:00 PM

Lab ID: 1412462-002

Matrix: AQUEOUS

Received Date: 12/9/2014 3:55:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM5210B: BOD							Analyst: SMS
Biochemical Oxygen Demand	470	2.0		mg/L	1	12/15/2014 11:38:00 AM	16752

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	
	E Value above quantitation range	H Holding times for preparation or analysis exceeded	
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit	Page 3 of 5
	O RSD is greater than RSDlimit	P Sample pH greater than 2.	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S Spike Recovery outside accepted recovery limits		



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

December 16, 2014

Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

ESC Sample # : L738387-01

Date Received : December 11, 2014
Description :
Sample ID : 1412462-002B INFLUENT
Collected By :
Collection Date : 12/09/14 14:30

Site ID :
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	900	10.	mg/l	410.4	12/16/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/16/14 17:16 Printed: 12/16/14 17:17



YOUR LAB OF CHOICE

Hall Environmental Analysis Laboratory

4901 Hawkins NE
Albuquerque, NM 87109

Quality Assurance Report
Level II

L738387

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

December 16, 2014

Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
COD	< 10	mg/l			WG760020	12/16/14 12:43

Analyte	Units	Duplicate			Limit	Ref Samp	Batch
		Result	Duplicate	RPD			
COD	mg/l	0.0	0.0	0.0	5	L738400-02	WG760020
COD	mg/l	110.	110.	0.0	5	L738155-01	WG760020

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
COD	mg/l	183	183.	100.	90-110	WG760020

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
COD	mg/l	182.	183.	99.0	90-110	0.548	5	WG760020

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
COD	mg/l	334.	0.0	400	84.0*	90-110	L738354-05	WG760020

Batch number /Run number / Sample number cross reference

WG760020: R3010256: L738387-01

* * Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1412462

19-Dec-14

Client: EPCOR Water
Project: Edgewood WWTP

Sample ID	MB-16752	SampType:	MBLK	TestCode:	SM5210B: BOD					
Client ID:	PBW	Batch ID:	16752	RunNo:	23175					
Prep Date:	12/10/2014	Analysis Date:	12/15/2014	SeqNo:	684472	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	MB-16752	SampType:	MBLK	TestCode:	SM5210B: BOD					
Client ID:	PBW	Batch ID:	16752	RunNo:	23175					
Prep Date:	12/10/2014	Analysis Date:	12/15/2014	SeqNo:	684473	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	LCS-16752	SampType:	LCS	TestCode:	SM5210B: BOD					
Client ID:	LCSW	Batch ID:	16752	RunNo:	23175					
Prep Date:	12/10/2014	Analysis Date:	12/15/2014	SeqNo:	684474	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	240	2.0	198.0	0	124	89.6	126			

Sample ID	LCSD-16752	SampType:	LCSD	TestCode:	SM5210B: BOD					
Client ID:	LCSS02	Batch ID:	16752	RunNo:	23175					
Prep Date:	12/10/2014	Analysis Date:	12/15/2014	SeqNo:	684475	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	240	2.0	198.0	0	120	89.6	126	2.69	31.9	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1412462

19-Dec-14

Client: EPCOR Water
Project: Edgewood WWTP

Sample ID	MB-16751	SampType:	MBLK	TestCode:	SM 9223B	Fecal Indicator:	E. coli	MPN		
Client ID:	PBW	Batch ID:	16751	RunNo:	23095					
Prep Date:	12/9/2014	Analysis Date:	12/10/2014	SeqNo:	682374	Units:	CFU/100ml			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
E. Coli	<1	1.000								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87105
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EPCOR-EDGEWOOD

Work Order Number: 1412462

RcptNo: 1

Received by/date: CS 12/09/14

Logged By: **Celina Sessa** 12/9/2014 3:55:00 PM *Celina Sessa*

Completed By: **Celina Sessa** 12/9/2014 4:03:29 PM *Celina Sessa*

Reviewed By: *[Signature]* 12/09/14 @ 11:10

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Client

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Samples were collected the same day and chilled. Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: 1
 (<2 or >12 unless noted)

Adjusted? No

Checked by: *[Signature]*

Special Handling (if applicable)

- 16. 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: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	10.6	Good	Not Present			

Chain-of-Custody Record

Client: 5 Plus Water
 Mailing Address: PO Box 320
Edgewood NM 87015
 Phone #: 505-228-6233
 email or Fax#: m.butler@edgewood.com

QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation
 NELAP Other _____
 EDD (Type) _____

Turn-Around Time:

Standard Rush

Project Name:

Edgewood WWT

Project #:

Project Manager:

Mike Butler

Sampler:

M. Butler

On Ice: Yes No

Sample Temperature: 10.6°C

Date Time Matrix Sample Request ID

12-9-14 1430 A9 Effluent
12-9-14 1430 ↓ Influent

Container Type and #

Preservative Type

HEAL No.
1412462
-001
-002

Analysis Request

BTEX + MTBE + TMB's (8021)	
BTEX + MTBE + TPH (Gas only)	
TPH 8015B (GRO / DRO / MRO)	
TPH (Method 418.1)	
EDB (Method 504.1)	
PAH's (8310 or 8270 SIMS)	
RCRA 8 Metals	
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
8081 Pesticides / 8082 PCB's	
8260B (VOA)	
8270 (Semi-VOA)	
<u>X Ecoli, Enum</u>	
<u>130D</u>	<u>X</u>
<u>COD</u>	<u>X</u>
Air Bubbles (Y or N)	

Date: 12/9/14 Time: 1453 Relinquished by: [Signature]
 Date: 12/9/14 Time: 1955 Relinquished by: [Signature]

Received by: [Signature] Date: 12/9/14 Time: 2:53
 Received by: Melina Somo Date: 12/09/14 Time: 1555

Remarks:

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

January 05, 2015

Mike Butler
EPCOR Water
PO Box 370
Edgewood, NM 87015
TEL: (505) 228-6233
FAX

RE: Edgewood WWTP

OrderNo.: 1412877

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/17/2014 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 #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EPCOR Water

Client Sample ID: Effluent

Project: Edgewood WWTP

Collection Date: 12/17/2014 2:00:00 PM

Lab ID: 1412877-001

Matrix: AQUEOUS

Received Date: 12/17/2014 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM5210B: BOD							Analyst: SMS
Biochemical Oxygen Demand	8.2	2.0		mg/L	1	12/22/2014 2:57:00 PM	16879
SM 9223B FECAL INDICATOR: E. COLI MPN							Analyst: MRA
E. Coli	<1	1.000		CFU/100ml	1	12/18/2014 4:49:00 PM	16893

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

REPORT OF ANALYSIS

December 23, 2014

Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

ESC Sample # : L740122-01

Date Received : December 19, 2014
Description :
Sample ID : 1412877-001C EFFLUENT
Collected By :
Collection Date : 12/17/14 14:00

Site ID :
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	30.	10.	mg/l	410.4	12/22/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/23/14 08:56 Printed: 12/23/14 08:56



YOUR LAB OF CHOICE

Hall Environmental Analysis Laboratory

4901 Hawkins NE
Albuquerque, NM 87109

Quality Assurance Report
Level II

L740122

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

December 23, 2014

Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
COD	< 10	mg/l			WG761221	12/22/14 13:37

Analyte	Units	Result	Duplicate Duplicate	RPD	Limit	Ref Samp	Batch
COD	mg/l	0.0	0.0	0.0	5	L739911-01	WG761221
COD	mg/l	0.0	0.0	0.0	5	L740170-01	WG761221

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
COD	mg/l	183	186.	102.	90-110	WG761221

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
COD	mg/l	186.	186.	102.	90-110	0.0	5	WG761221

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
COD	mg/l	393.	0.0	400	98.0	90-110	L739949-11	WG761221

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
COD	mg/l	403.	393.	101.	90-110	2.51	5	L739949-11	WG761221

Batch number /Run number / Sample number cross reference

WG761221: R3011456: L740122-

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1412877

05-Jan-15

Client: EPCOR Water
Project: Edgewood WWTP

Sample ID	MB-16879	SampType:	MBLK	TestCode:	SM5210B: BOD					
Client ID:	PBW	Batch ID:	16879	RunNo:	23366					
Prep Date:	12/17/2014	Analysis Date:	12/22/2014	SeqNo:	690440	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	MB-16879	SampType:	MBLK	TestCode:	SM5210B: BOD					
Client ID:	PBW	Batch ID:	16879	RunNo:	23366					
Prep Date:	12/17/2014	Analysis Date:	12/22/2014	SeqNo:	690441	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID	LCS-16879	SampType:	LCS	TestCode:	SM5210B: BOD					
Client ID:	LCSW	Batch ID:	16879	RunNo:	23366					
Prep Date:	12/17/2014	Analysis Date:	12/22/2014	SeqNo:	690442	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	230	2.0	198.0	0	116	89.6	126			

Sample ID	LCSD-16879	SampType:	LCSD	TestCode:	SM5210B: BOD					
Client ID:	LCSS02	Batch ID:	16879	RunNo:	23366					
Prep Date:	12/17/2014	Analysis Date:	12/22/2014	SeqNo:	690443	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	210	2.0	198.0	0	108	89.6	126	7.19	31.9	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1412877

05-Jan-15

Client: EPCOR Water
Project: Edgewood WWTP

Sample ID	MB-16893	SampType:	MBLK	TestCode:	SM 9223B	Fecal Indicator:	E. coli	MPN		
Client ID:	PBW	Batch ID:	16893	RunNo:	23250					
Prep Date:	12/17/2014	Analysis Date:	12/18/2014	SeqNo:	687135	Units:	CFU/100ml			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
E. Coli	<1	1.000								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection 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: **EPCOR-EDGEWOOD** Work Order Number: **1412877** RcptNo: 1

Received by/date: *[Signature]* **12/17/14**
 Logged By: **Ashley Gallegos** 12/17/2014 3:40:00 PM
 Completed By: **Ashley Gallegos** 12/17/2014 3:49:05 PM
 Reviewed By: **Rus 12/17/14**

[Signature]
[Signature]

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Client

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
Samples were collected the same day and chilled.
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: **1**
 (<2 or >12 unless noted)
 Adjusted? **NO**
 Checked by: *[Signature]*

Special Handling (if applicable)

- 16. 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: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	13.4	Good	Not Present			

Chain-of-Custody Record

Client: Edge Water
 Mailing Address: PO BOX 320
Edgewood NM 8705
 Phone #: 505-228-6233
 email or Fax#: mbutler@edge.com

QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation
 NELAP Other
 EDD (Type)

Project Manager:
Mike Butler
 Sampler: M. Butler
 On Ice: Yes No
 Sample Temperature: 3.0

Container Type and #
 Preservative Type
 HEAL No.
1412877
-001

Date Time Matrix Sample Request ID
12-17-14 1400 Effluent

Turn-Around Time:
 Standard Rush

Project Name:
Edgewood WWTP
 Project #:



HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMBs (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	BOD	LD	F ₁₀₁ , F ₁₁₃ , F ₁₁₇	Air Bubbles (Y or N)

Remarks:

Received by: [Signature] Date: 12/17/14 Time: 2:37
 Relinquished by: [Signature]
 Received by: [Signature] Date: 12/17/14 Time: 1540
 Relinquished by: [Signature]

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

January 13, 2015

Mike Butler
EPCOR Water
PO Box 370
Edgewood, NM 87015
TEL: (505) 228-6233
FAX

RE: Edgewood WWTP

OrderNo.: 1412885

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/17/2014 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 #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1412885

Date Reported: 1/13/2015

CLIENT: EPCOR Water

Client Sample ID: Effluent

Project: Edgewood WWTP

Collection Date: 12/17/2014 2:00:00 PM

Lab ID: 1412885-001

Matrix: AQUEOUS

Received Date: 12/17/2014 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: LRW
1,2-Dibromoethane	ND	0.010		µg/L	1	12/18/2014 4:05:17 PM	16901
EPA METHOD 8082: PCB'S							Analyst: SCC
Aroclor 1016	ND	1.0		µg/L	1	12/29/2014 2:01:05 PM	16966
Aroclor 1221	ND	1.0		µg/L	1	12/29/2014 2:01:05 PM	16966
Aroclor 1232	ND	1.0		µg/L	1	12/29/2014 2:01:05 PM	16966
Aroclor 1242	ND	1.0		µg/L	1	12/29/2014 2:01:05 PM	16966
Aroclor 1248	ND	1.0		µg/L	1	12/29/2014 2:01:05 PM	16966
Aroclor 1254	ND	1.0		µg/L	1	12/29/2014 2:01:05 PM	16966
Aroclor 1260	ND	1.0		µg/L	1	12/29/2014 2:01:05 PM	16966
Surr: Decachlorobiphenyl	76.8	26.3-122		%REC	1	12/29/2014 2:01:05 PM	16966
Surr: Tetrachloro-m-xylene	60.0	33.8-120		%REC	1	12/29/2014 2:01:05 PM	16966
EPA METHOD 8310: PAHS							Analyst: SCC
Naphthalene	ND	2.0		µg/L	1	12/23/2014 3:56:43 PM	16968
1-Methylnaphthalene	ND	2.0		µg/L	1	12/23/2014 3:56:43 PM	16968
2-Methylnaphthalene	ND	2.0		µg/L	1	12/23/2014 3:56:43 PM	16968
Acenaphthylene	ND	2.5		µg/L	1	12/23/2014 3:56:43 PM	16968
Acenaphthene	ND	2.0		µg/L	1	12/23/2014 3:56:43 PM	16968
Fluorene	ND	0.80		µg/L	1	12/23/2014 3:56:43 PM	16968
Phenanthrene	ND	0.60		µg/L	1	12/23/2014 3:56:43 PM	16968
Anthracene	ND	0.60		µg/L	1	12/23/2014 3:56:43 PM	16968
Fluoranthene	ND	0.30		µg/L	1	12/23/2014 3:56:43 PM	16968
Pyrene	ND	0.30		µg/L	1	12/23/2014 3:56:43 PM	16968
Benz(a)anthracene	ND	0.070		µg/L	1	12/23/2014 3:56:43 PM	16968
Chrysene	ND	0.20		µg/L	1	12/23/2014 3:56:43 PM	16968
Benzo(b)fluoranthene	ND	0.10		µg/L	1	12/23/2014 3:56:43 PM	16968
Benzo(k)fluoranthene	ND	0.070		µg/L	1	12/23/2014 3:56:43 PM	16968
Benzo(a)pyrene	ND	0.070		µg/L	1	12/23/2014 3:56:43 PM	16968
Dibenz(a,h)anthracene	ND	0.12		µg/L	1	12/23/2014 3:56:43 PM	16968
Benzo(g,h,i)perylene	ND	0.12		µg/L	1	12/23/2014 3:56:43 PM	16968
Indeno(1,2,3-cd)pyrene	ND	0.25		µg/L	1	12/23/2014 3:56:43 PM	16968
Surr: Benzo(e)pyrene	68.2	30.8-125		%REC	1	12/23/2014 3:56:43 PM	16968
EPA METHOD 300.0: ANIONS							Analyst: Igp
Fluoride	0.10	0.10		mg/L	1	12/19/2014 3:37:45 AM	R23248
Chloride	570	25		mg/L	50	12/23/2014 11:42:54 PM	R23340
Nitrogen, Nitrate (As N)	2.9	2.0		mg/L	20	12/19/2014 3:50:10 AM	R23248
Sulfate	48	10		mg/L	20	12/19/2014 3:50:10 AM	R23248
EPA METHOD 200.7: DISSOLVED METALS							Analyst: JLF

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	
	E Value above quantitation range	H Holding times for preparation or analysis exceeded	
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit	Page 1 of 21
	O RSD is greater than RSDlimit	P Sample pH greater than 2.	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EPCOR Water

Client Sample ID: Effluent

Project: Edgewood WWTP

Collection Date: 12/17/2014 2:00:00 PM

Lab ID: 1412885-001

Matrix: AQUEOUS

Received Date: 12/17/2014 3:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 200.7: DISSOLVED METALS							Analyst: JLF
Aluminum	0.065	0.020		mg/L	1	12/23/2014 1:28:07 PM	R23329
Barium	0.29	0.0020		mg/L	1	12/23/2014 1:28:07 PM	R23329
Boron	0.097	0.040		mg/L	1	12/23/2014 1:28:07 PM	R23329
Cadmium	ND	0.0020		mg/L	1	12/23/2014 1:28:07 PM	R23329
Chromium	ND	0.0060		mg/L	1	12/23/2014 1:28:07 PM	R23329
Cobalt	ND	0.0060		mg/L	1	12/23/2014 1:28:07 PM	R23329
Copper	0.046	0.0060		mg/L	1	12/23/2014 1:28:07 PM	R23329
Iron	0.068	0.020		mg/L	1	12/23/2014 1:28:07 PM	R23329
Manganese	0.0027	0.0020		mg/L	1	12/23/2014 1:28:07 PM	R23329
Molybdenum	ND	0.0080		mg/L	1	12/23/2014 1:28:07 PM	R23329
Nickel	ND	0.010		mg/L	1	12/23/2014 1:28:07 PM	R23329
Silver	ND	0.0050		mg/L	1	12/23/2014 1:52:43 PM	R23329
Zinc	0.048	0.010		mg/L	1	12/23/2014 1:28:07 PM	R23329
EPA 200.8: DISSOLVED METALS							Analyst: JLF
Arsenic	ND	0.0010		mg/L	1	1/7/2015 6:50:11 PM	R23526
Lead	ND	0.0010		mg/L	1	1/7/2015 6:50:11 PM	R23526
Selenium	0.0015	0.0010		mg/L	1	1/7/2015 6:50:11 PM	R23526
Uranium	0.0042	0.0010		mg/L	1	1/7/2015 6:50:11 PM	R23526
EPA METHOD 245.1: MERCURY							Analyst: MMD
Mercury	ND	0.00020		mg/L	1	12/23/2014 2:09:39 PM	16959
EPA METHOD 8260B: VOLATILES							Analyst: DJF
Benzene	ND	1.0		µg/L	1	12/26/2014 2:14:46 PM	R23369
Toluene	ND	1.0		µg/L	1	12/26/2014 2:14:46 PM	R23369
Ethylbenzene	ND	1.0		µg/L	1	12/26/2014 2:14:46 PM	R23369
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/26/2014 2:14:46 PM	R23369
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/26/2014 2:14:46 PM	R23369
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/26/2014 2:14:46 PM	R23369
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/26/2014 2:14:46 PM	R23369
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/26/2014 2:14:46 PM	R23369
Naphthalene	ND	2.0		µg/L	1	12/26/2014 2:14:46 PM	R23369
1-Methylnaphthalene	ND	4.0		µg/L	1	12/26/2014 2:14:46 PM	R23369
2-Methylnaphthalene	ND	4.0		µg/L	1	12/26/2014 2:14:46 PM	R23369
Acetone	ND	10		µg/L	1	12/26/2014 2:14:46 PM	R23369
Bromobenzene	ND	1.0		µg/L	1	12/26/2014 2:14:46 PM	R23369
Bromodichloromethane	ND	1.0		µg/L	1	12/26/2014 2:14:46 PM	R23369
Bromoform	ND	1.0		µg/L	1	12/26/2014 2:14:46 PM	R23369
Bromomethane	ND	3.0		µg/L	1	12/26/2014 2:14:46 PM	R23369
2-Butanone	ND	10		µg/L	1	12/26/2014 2:14:46 PM	R23369

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		