



1702 East Central Avenue
 Bentonville, AR 72712
 479-271-7996 phone
 479-271-8394 fax

Analytical Report

09/23/09 15:05

Client: Town of Highfill
 11978 Highfill Ave
 Gentry AR, 72734

Work Order: BI90099
 Project Name: Quarterly
 Project Number: Quarterly

Attn: Frank Holzkamper

Date Received: 09/16/09

Sample ID	Laboratory ID	Date and Time Sampled	Sampled By	Sample Type
Lysimeter #1	BI90099-01	09/16/09 11:10	Joshua Marshall	Grab
Lysimeter #2	BI90099-02	09/16/09 11:40	Joshua Marshall	Grab
Lysimeter #3	BI90099-03	09/16/09 11:20	Joshua Marshall	Grab
Lysimeter #4	BI90099-04	09/16/09 11:25	Joshua Marshall	Grab
Lysimeter #6	BI90099-05	09/16/09 11:35	Joshua Marshall	Grab
Well #1	BI90099-06	09/16/09 11:15	Joshua Marshall	Grab
Well #2	BI90099-07	09/16/09 11:30	Joshua Marshall	Grab

Samples were received into laboratory at a temperature of 2.00 °C

Comments:

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager. Any opinions, if expressed, are outside the scope of the laboratory's accreditation.

This report and any attachment(s) contains information from Environmental Testing Group, Inc ("ETG"), and is confidential and privileged. The information is intended for the use of the individual or entity named above. If you are not the intended recipient, be aware that any review, disclosure, printing, copying, distribution, retransmission, dissemination or other use of the information and/or contents of this message is prohibited. If you receive this message in error, please contact the sender immediately and delete any and all copies of this message from your computer(s).

Results are reported on a wet weight basis unless otherwise noted.

The reported results were obtained in compliance with 2003 NELAC standards unless otherwise noted.

These results relate only to the items tested.

Estimated uncertainty is available upon request.

This report has been electronically signed.

David D'Amico
 Laboratory Director

ADEQ 04-0574/07-087-0

NELAP/FL DOH E871035



Lysimeter #5, insufficient sample. Dry, only 5 ml tube.



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Well #1, no residual chlorine, muddy sample.

Environmental Testing Group

David D'Amico
Laboratory Director

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Lysimeter #1 BI90099-01 (Water) Sampled: 09/16/09 11:10

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
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Environmental Testing Group

Chemistry Parameters by APHA/EPA Methods

NA	Ammonia as N	0.167		mg/L	0.030	0.100	1	09/21/09 11:54	JHM	EPA 350.1	B9I1802
NA	Nitrate/Nitrite as N	0.0667		"	0.0500	0.100	"	09/21/09 17:23	JHM	EPA 353.2	B9I2108
NA	Phosphorus, Total as P	0.468		"	0.0500	0.250	5	09/23/09 11:14	DAD	EPA 365.1	B9I2106
7782-50-5	Residual Chlorine	ND		"	0.200	0.200	1	09/16/09 16:03	JHM	SM 4500-Cl B	B9I1605

Lysimeter #2 BI90099-02 (Water) Sampled: 09/16/09 11:40

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
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Environmental Testing Group

Chemistry Parameters by APHA/EPA Methods

NA	Ammonia as N	ND		mg/L	0.030	0.100	1	09/21/09 11:54	JHM	EPA 350.1	B9I1802
NA	Nitrate/Nitrite as N	9.69		"	0.0500	0.100	"	09/21/09 17:23	JHM	EPA 353.2	B9I2108
NA	Phosphorus, Total as P	0.324		"	0.0167	0.0835	1.67	09/23/09 11:14	DAD	EPA 365.1	B9I2106
7782-50-5	Residual Chlorine	ND		"	0.200	0.200	1	09/16/09 16:03	JHM	SM 4500-Cl B	B9I1605

Lysimeter #3 BI90099-03 (Water) Sampled: 09/16/09 11:20

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
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Environmental Testing Group

Chemistry Parameters by APHA/EPA Methods

NA	Ammonia as N	ND		mg/L	0.030	0.100	1	09/21/09 11:54	JHM	EPA 350.1	B9I1802
NA	Nitrate/Nitrite as N	ND		"	0.0500	0.100	"	09/21/09 17:23	JHM	EPA 353.2	B9I2108
NA	Phosphorus, Total as P	0.302		"	0.0250	0.125	2.5	09/23/09 11:14	DAD	EPA 365.1	B9I2106
7782-50-5	Residual Chlorine	ND		"	0.200	0.200	1	09/16/09 16:03	JHM	SM 4500-Cl B	B9I1605

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David D'Amico
 Laboratory Director

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Work Order: BI90099
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Attn: Frank Holzkamper

Date Received: 09/16/09

Lysimeter #4
BI90099-04 (Water) Sampled: 09/16/09 11:25

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
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Environmental Testing Group

Chemistry Parameters by APHA/EPA Methods

NA	Ammonia as N	0.038	J	mg/L	0.030	0.100	1	09/21/09 11:54	JHM	EPA 350.1	B911802
NA	Nitrate/Nitrite as N	ND		"	0.0500	0.100	"	09/21/09 17:23	JHM	EPA 353.2	B912108
NA	Phosphorus, Total as P	0.385		"	0.0104	0.0520	1.04	09/23/09 11:14	DAD	EPA 365.1	B912106
7782-50-5	Residual Chlorine	ND		"	0.200	0.200	1	09/16/09 16:03	JHM	SM 4500-Cl B	B911605

Lysimeter #6
BI90099-05 (Water) Sampled: 09/16/09 11:35

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
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Environmental Testing Group

Chemistry Parameters by APHA/EPA Methods

NA	Ammonia as N	ND		mg/L	0.030	0.100	1	09/21/09 11:54	JHM	EPA 350.1	B911802
NA	Nitrate/Nitrite as N	ND		"	0.0500	0.100	"	09/21/09 17:23	JHM	EPA 353.2	B912108
NA	Phosphorus, Total as P	0.343		"	0.0100	0.0500	"	09/23/09 11:14	DAD	EPA 365.1	B912106
7782-50-5	Residual Chlorine	ND		"	0.200	0.200	"	09/16/09 16:03	JHM	SM 4500-Cl B	B911605

Well #1
BI90099-06 (Water) Sampled: 09/16/09 11:15

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
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Environmental Testing Group

Chemistry Parameters by APHA/EPA Methods

NA	Ammonia as N	0.208		mg/L	0.030	0.100	1	09/21/09 11:54	JHM	EPA 350.1	B911802
NA	Nitrate/Nitrite as N	5.24		"	0.0500	0.100	"	09/21/09 17:23	JHM	EPA 353.2	B912108
NA	Phosphorus, Total as P	0.0141		"	0.0100	0.0500	"	09/23/09 11:14	DAD	EPA 365.1	B912106

Well #2
BI90099-07 (Water) Sampled: 09/16/09 11:30

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
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Environmental Testing Group

Chemistry Parameters by APHA/EPA Methods

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Date Received: 09/16/09

Well #2
BI90099-07 (Water) Sampled: 09/16/09 11:30

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
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Environmental Testing Group

Chemistry Parameters by APHA/EPA Methods

NA	Ammonia as N	0.048	J	mg/L	0.030	0.100	1	09/21/09 11:54	JHM	EPA 350.1	B9I1802
NA	Nitrate/Nitrite as N	3.24		"	0.0500	0.100	"	09/21/09 17:23	JHM	EPA 353.2	B9I2108
NA	Phosphorus, Total as P	0.0559		"	0.0100	0.0500	"	09/23/09 11:14	DAD	EPA 365.1	B9I2106
7782-50-5	Residual Chlorine	ND		"	0.200	0.200	"	09/16/09 16:03	JHM	SM 4500-Cl B	B9I1605

Notes and Definitions

J Estimated Value. Compound was detected below minimum quantitation levels.

ND Analyte NOT DETECTED at MDL MDL Method Detection Limit

PQL Practical Quantitation Limit ug/L Micrograms/Liter (PPB)

mg/L Milligrams/Liter (PPM) ug/Kg Micrograms/Kilogram (PPB)

mg/Kg Milligrams/Kilogram (PPM) dry Sample results reported on a dry weight basis

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Town of Highfill CHAIN OF CUSTODY RECORD

CLIENT INFORMATION Town of Highfill 11978 Higfill Ave. Quarterly	Reporting Information Project Name Highfill Wastewater Treatment System E-Mail: frank.holtzkamper@highfillar.com Telephone: (479) 936-4646 Fax: (479) 736-5921 Bill to/ P.O.#:	Bottle Type: A) 1 Liter Poly B) 500 mL Poly C) 250 mL Poly D) 1 L Amber Glass E) 330 mL Amber Glass F) 100 mL Snap Cap G) 43 mL VOA H) 50 mL centrifuge tube	Preservation Codes: 1. Cool, 4 Degrees Centigrade Non-preserved 2. Sulfuric Acid (H ₂ SO ₄), pH < 2 3. Nitric Acid (HNO ₃), pH < 2 4. Thiosulfate for Dechlorination 5. Hydrochloric Acid (HCl) 6. Sodium Hydroxide (NaOH), pH > 12 7. H ₃ PO ₄ Phosphoric Acid
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Customer Number 2015	Project Manager: Frank HoltzKamper	Preservative Code: 1	Bottle Type: C
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Sampler(s) Signature: <i>Joshua H. Marshall</i>	Sampler(s) Printed: <i>Joshua H. Marshall</i>	
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LAB ID #	SAMPLE COLLECTION		Grab	Comp	Number of Bottles	Sample Matrix S=Solid W=Water	SAMPLE IDENTIFICATION . DESCRIPTION	Total residual Chlorine (field)	NH ₃ -N, TP, NO ₂ +NO ₃
	Date/s	Time/s							
B190099-01	9/16/09	1110	X		1	W	Lysimeter #1	X	X
-02		1140	X		1	W	Lysimeter #2	X	X
-03		1120	X		1	W	Lysimeter #3	X	X
-04		1125	X		1	W	Lysimeter #4	X	X
* -05		1140	X		1	W	Lysimeter #5	X	X
-05		1135	X		1	W	Lysimeter #6	X	X
-06		1115	X		1	W	Monitoring well #1	* X	
-07		1130	X		1	W	Monitoring well #2	X	X

BI90099-01 B
 Lysimeter #1
 Sampled: 09/16/09 11:10
 Water- Work Order Label

Town of Highfill

Dry - 5 ml sample

muddy sample

1. Relinquished by: (Signature)	Date/Time	2. Received by: (Signature)		
			SAMPLE CONDITION UPON RECEIPTS IN LAB 1 CUSTODY SEALS: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 2 CONTAINERS CORRECT: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 3 COC/LABELS AGREE: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 4 PRESERVATION CONFIRMED: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 5 RECEIVED ON ICE: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 6 TEMPERATURE UPON RECEIPT: 2 °C	REMARKS / COMMENTS Samples preserved in lab. <i>no Cl₂ detected on all samples tested.</i>
3. Relinquished by: (Signature)	Date/Time	4. Received by lab: (Signature)		
<i>Joshua H. Marshall</i>	9/16/09 1345	<i>Deanna Blankens'g</i>		
			FOR COMPLETION BY LAB ONLY	FEDEX UPS

Receipt of samples by Environmental Testing Group, Inc. acknowledges acceptance of Standard Terms and Conditions (available upon request).