

**Effects of pouring e-coli loaded water through a Dynamically Enhanced Portable Unit one time.**

This report and lab test is about a private, 28 foot deep ground water well with severe fecal contamination from an unknown source. The well water was poured through a DE Portable Unit one time. See the results below.

**Summary:**

E.coli was reduced by 25% with 1 pass through the NAT Dynamically Enhanced Portable Unit.

TSS (total suspended solids) reduced from >2mg/L to <2mg/L

TDS (total dissolved solids) Reduced from 380 mg/L to 227 mg/L which is 40.2%

**BIO CHEM LAB, INC.**  
4751 TOKIO ROAD. WEST, TX 76691**PHONE: 254.829.8001 FAX: 254.829.8013****ANALYTICAL REPORT**CLIENT IDENTIFICATION INFORMATION:Green Frontiers Inc  
PO Box 728  
Hewitt, TX 76643  
www.GreenFrontiersInc.com  
**FIELD DATA / SAMPLE DESCRIPTION**

REDELLE WELL	
REPORT ID:	RSTW-110812
LAB CONTACT:	ANDREW JANEK
REPORT DATE:	11.8.12

	RAW	NATURAL ACTION
Collection Point		
Date/ Time Collected	10.26.12 / 13:45	10.26.12 / 13:45
Date/ Time Received by Lab	10.26.12 / 14:30	10.26.12 / 14:30
Laboratory Sample ID	9533-12	9534-12
Sampling Description/Procedure	Client Collected	Client Collected
Sample Type	Grab	Grab
Sample Matrix	Aqueous-PW	Aqueous-PW
Collector	R. Steward	R. Steward

**PARAMETER / UNIT / METHOD**

<b>TSS, mg/L</b>	SM <sub>20</sub> 2540-D	<b>2.</b>	<b>&lt; 2.</b>
Reporting Limit, mg/L		2.	2.
Dilution Factor		1	1
Date / Time Analysis		10.29.12 / 13:00	10.29.12 / 13:00
Analyst Initials		BA	BA

<b>TDS, mg/L</b>	SM <sub>20</sub> 2540-C	<b>380.</b>	<b>227.</b>
Reporting Limit, mg/L		10.	10.
Dilution Factor		1	2
Date / Time Analysis		10.2.12 / 09:00	10.2.12 / 09:00
Analyst Initials		BA	BA

<b>TOTAL COLIFORM, MPN/100ml</b>	IDEXX SYSTEM	<b>&gt; 2,419.6</b>	<b>&gt; 2,419.6</b>
<b>E. coli, MPN/100ml</b>	IDEXX SYSTEM	<b>461.</b>	<b>345.</b>
Reporting Limit, MPN/100ml		1.	1.
Dilution Factor		1	1
Date / Time Analysis Initiated		10.26.12 / 14:50	10.26.12 / 14:50
Date / Time Analysis Completed		10.27.12 / 14:30	10.27.12 / 14:30
Analyst Initials		KA	KA

ANALYTICAL NOTES, INTERPRETATIONS, METHOD DEVIATIONS OR ENVIRONMENTAL CONDITIONS :

**STATEMENT OF COMPLIANCE/NON-COMPLIANCE:**

The above analytical data was derived from submitted samples that have met all established acceptance criteria, unless otherwise qualified, and are compliant with the laboratory's Quality System. The Director of Operations or designee has authorized the release of this report. The results contained herein relate only to the Laboratory Sample ID(s) documented above. This analytical test report may not be reproduced except in full, without the written approval of the laboratory.

Quality Assurance / Quality Control Data associated with results are included in table form below within this report.

Please contact 254.829.8001 with any questions or concerns.

**BIO CHEM LAB, INC.**  
4751 TOKIO ROAD. WEST, TX 76691

PHONE: 254.829.8001 FAX: 254.829.8013

**ANALYTICAL REPORT**

CLIENT IDENTIFICATION INFORMATION:

Green Frontiers Inc  
PO Box 728  
Hewitt, TX 76643  
www.GreenFrontiersInc.com  
QA/ QC DATA:

REDELL WELL	
REPORT ID:	RSTW-110812
LAB CONTACT:	ANDREW JANEK
REPORT DATE:	11.8.12

**TSS**

SETUP DATE	SETUP ID	BATCH ID	ANALYST
10.29.12	T-102912-13	T-102912-13-03	BA
<b>SAMPLE ID:</b>	<b>RESULT 1</b>	<b>RESULT 2</b>	<b>% DEV</b>
9532-12	3800	3600	2.7
9539-12	270	226	8.9
BLANK, mg/L	-0.60	LCS % REC	99.8

**TDS**

SETUP DATE	SETUP ID	BATCH ID	ANALYST
11.2.12	DS-110212-01	DS-110212-01-01	BA
<b>SAMPLE ID:</b>	<b>RESULT 1</b>	<b>RESULT 2</b>	<b>% DEV</b>
9672-12	2,450	2,454	0.1
<b>SPIKE ID:</b>	<b>RESULT 1</b>	<b>RESULT 2</b>	<b>% REC</b>
9601-12	1,942	2,360	83.6
BLANK,(g)	0.0000	LCS, %REC	93.1

**TOTAL COLIFORM & E.COLI**

DATE	10.26.12				
SETUP ID:	W-102612-01				
BLANK	SAMPLE ID	RESULT 1	RESULT 2	PRECISION	PRECISION RANGE
<1.0	9546-12	> 2,419.6	> 2,419.6	0.00	0.00 - 0.26

**QC DATA LEGEND - ACCEPTABLE RANGES**

**TSS**

% DEV: PRECISION ACCEPTABLE RANGE 0-10%  
LCS % REC: ACCEPTABLE RECOVERY 80-120%  
TSS BLANK: < 1.0 mg/L

**TDS**

% DEV: PRECISION ACCEPTABLE RANGE 0-10%  
LCS % REC: ACCEPTABLE RECOVERY 80-120%  
TDS BLANK: < 0.0005 g/L

**E. COLI**

BLANK: ACCEPTABLE LEVEL = NOT DETECTED  
% DEV: PRECISION CRITERION RANGE 0 - 0.26

**QC DATA LEGEND - ANALYTICAL FLAGS / QUALIFIERS**

Q1: BLANK OUTSIDE METHOD SPECIFIED LIMITS  
Q2: LCS / STANDARD OUTSIDE METHOD SPECIFIED LIMITS  
Q3: MATRIX SPIKE/ MATRIX SPIKE DUPLICATE OUTSIDE METHOD SPECIFIED LIMITS  
Q4: PRECISION / DUPLICATE OUTSIDE METHOD SPECIFIED LIMITS  
QM: MICRO QUALIFIER: SEE INCLUDED NARRATIVE



Andrew Janek, Technical Director  
Bio Chem Lab, Inc.



**DATA QUALIFIERS**

HT- Holding Time T-Thermal preservation P- pH Preservation V- Sample Volume Inadequate ND- Not Detected  
O- Outside of Laboratory's Accreditation L- Laboratory Error Q- Failed Quality Data