



Corporate Headquarters  
6571 Wilson Mills Road  
Cleveland, Ohio 44143

Phone: 800-458-3330



This report package contains 24 pages.

This package contains reports from the following laboratories:

- National Testing Laboratories, Ltd. (8 pages)
- Pace Analytical Services, Inc.- Minneapolis, MN (7 pages)
- Pace Analytical Services, Inc.- Greensburg, PA (1 page)
- NSF International (4 pages)
- EMSL Analytical, Inc. (1 page)
- Radon Diagnostic Laboratory (1 page)
- Underwriters Laboratories Inc. (1 page)

If you have any questions, please contact Susan Henderson at 1-800-458-3330.



NATIONAL TESTING LABORATORIES, LTD.

556 South Mansfield, Ypsilanti, MI 48197-5166

(440) 449-2525 • Fax (440) 449-8585



ANALYTICAL REPORT

PAGE 1 OF 7 SAMPLE CODE: 731917

Date: 06/21/11 Report #: 731917 Laboratory ID #: 00417

Client: CENTRAL CAROLINA BOTTLING  
DBA GRAND SPRING DISTRIB.  
2140 MOUNT CARMEL RD  
ALTON, VA 24520-

Date Collected: SEE OPENING INFO  
Time Collected: SEE OPENING INFO  
SOURCE: SPRING-GRAND SPRINGS  
GRAND SPRINGS NATURAL SPRING WATER  
FINISHED PRODUCT  
0.5L/PROD CODE: 07:10 042511  
EXP.04252013

Date received at lab: 05/02/11 Time received at lab: 09:05  
Collected by : J.BURTON

OPENING INFORMATION: METALS OPENED 05/02/11 @ 13:45 BY JL  
INORGANIC CHEMICALS & PHYSICAL FACTORS OPENED 05/05/11 @ 13:51 BY PC WITH  
THE EXCEPTION OF METHOD 300.0 OPENED 05/03/11 @ 11:24 BY MK  
METHOD 300.1 OPENED 05/02/11 @ 15:09 BY MK  
FREE CHLORINE AS CL<sub>2</sub>, CHLORAMINE AS CL<sub>2</sub>, AND CHLORINE DIOXIDE  
OPENED 05/06/11 @ 10:11 BY SG  
METHOD 524.2 OPENED 05/10/11 @ 16:27 BY SB  
METHODS 505 OPENED 05/06/11 @ 12:41 BY SG  
METHODS 504.1 OPENED 05/06/11 @ 12:40 BY SG  
METHOD 508.1 OPENED 05/16/11 @ 07:30 BY ADW  
METHOD 531.2 OPENED 05/16/11 @ 17:20 BY SB  
METHOD 547 OPENED 05/05/11 @ 12:10 BY SB  
METHOD 548.1 OPENED 05/26/11 @ 13:15 BY JF  
METHOD 549.2 OPENED 05/03/11 @ 12:08 BY SRS  
METHOD 525.2 OPENED 05/12/11 @ 11:00 BY ADW  
METHOD 552.2 OPENED 05/13/11 @ 18:00 BY ADW

The results herein conform to NELAC standards, where applicable, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request.



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## ANALYTICAL REPORT

PAGE 2 OF 7 SAMPLE CODE: 731917

NOTE: "\*" The MCL (Maximum Contaminant Level) or an established guideline has been exceeded for this contaminant.  
 "ND" This contaminant was not detected at or above our lower reporting limit (LRL).  
 "NA" Not Analyzed.

pH analysis by EPA Method 150.1 has a 15 minute hold time from sampling to analysis. Analysis of pH past the 15 minute hold time should be considered an estimate. In addition, Free Chlorine, Chloramine and Chlorine Dioxide hold time is immediate, therefore results should be considered an estimate.

Fed Id #	Analysis Performed	Method	MCL (mg/l)	LRL	Level Detected	Anal Date
-----						
Inorganic chemicals - metals:						
-----						
1002	Aluminum	200.7	0.2**	0.05	ND	05/04/11
1074	Antimony	200.8	0.006	0.003	ND	05/05/11
1005	Arsenic	200.8	0.010	0.002	ND	05/05/11
1010	Barium	200.7	2	0.10	ND	05/04/11
1075	Beryllium	200.8	0.004	0.001	ND	05/05/11
1079	Boron	200.7	---	0.10	ND	05/04/11
1015	Cadmium	200.8	0.005	0.001	ND	05/05/11
1016	Calcium	200.7	---	2.0	13	05/04/11
1020	Chromium	200.8	0.1	0.007	ND	05/05/11
1022	Copper	200.8	1.3**	0.002	ND	05/05/11
1028	Iron	200.7	0.3**	0.020	ND	05/04/11
1030	Lead	200.8	0.015	0.001	ND	05/05/11
1031	Magnesium	200.7	---	0.10	3.4	05/04/11
1032	Manganese	200.8	0.05**	0.004	ND	05/05/11
1035	Mercury	200.8	0.002	0.0002	ND	05/05/11
1036	Nickel	200.8	---	0.005	ND	05/05/11
1042	Potassium	200.7	---	1.0	2.2	05/04/11
1045	Selenium	200.8	0.05	0.002	ND	05/05/11
1050	Silver	200.7	0.1**	0.002	ND	05/04/11
1052	Sodium	200.7	---	1	8	05/04/11
1085	Thallium	200.8	0.002	0.001	ND	05/05/11
4009	Uranium	200.8	0.030	0.001	ND	05/05/11
1095	Zinc	200.8	5**	0.004	ND	05/05/11



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ANALYTICAL REPORT

PAGE 3 OF 7 SAMPLE CODE: 731917

Fed Id #	Analysis Performed	Method	MCL (mg/l)	LRL	Level Detected	Anal Date
Inorganic chemicals - other, and physical factors:						
1927	Alkalinity (Total as CaCO3)	2320B	---	20	54	05/14/11
1017	Chloride	300.0	250**	1	3.4	05/03/11
1910	Corrosivity	Langelier In	---	---	-2.4	06/15/11
1025	Fluoride	300.0	4	0.10	0.11	05/03/11
1055	Sulfate	300.0	250**	5	ND	05/03/11
1915	Hardness (as CaCO3)	2340C	---	10	44	05/14/11
1930	Total Dissolved Solids	2540C	500**	5	92	05/09/11
1928	Bicarbonate (as CaCO3)	2320B	---	20	54	05/14/11
1929	Carbonate (as CaCO3)	2320B	---	20	ND	05/14/11
1021	Hydroxide (as CaCO3)	2320B	---	20	ND	05/14/11
1064	Spec Cond (umhos/cm at 25C)	2510B	---	1	130	05/09/11

Fed Id #	Analysis Performed	Method	MCL (mg/l)	LRL	Level Detected	Anal Date	Anal Time
1040	Nitrate as N	300.0	10	0.05	0.72	05/03/11	13:10
1041	Nitrite as N	300.0	1	0.05	ND	05/03/11	13:10
1044	Ortho Phosphate	300.0	---	2.0	ND	05/03/11	13:10
1925	pH (Standard Units)	150.1	6.5-8.5**	---	6.1*	05/05/11	13:52
4254	pH Temperature (C)				24		
0100	Turbidity (NTU)	2130B	1.0	0.1	0.3	05/05/11	14:10
1905	Color (Apparent)	2120B	15**	3.0	ND	05/05/11	14:40
2905	Foaming Agents	5540C	0.5**	0.1	ND	05/06/11	11:20
1920	Odor Threshold	2150B	3 ton**	---	ND	05/05/11	15:00

\*\* Denotes Secondary Maximum Contaminant Level (SMCL)

Fed Id #	Analysis Performed	Method	MCL (mg/l)	LRL	Level Detected	Anal Date
1004	Bromide	300.1	---	0.005	0.019	05/02/11
1011	Bromate	300.1	0.010	0.005	ND	05/02/11
1009	Chlorite	300.1	1.0	0.005	ND	05/02/11

Fed Id #	Analysis Performed	Method	MCL (mg/l)	LRL	Level Detected	Anal Date	Anal Time
1013	Free Chlorine as Cl2	4500Cl-G	4.0	0.05	ND	05/06/11	10:25
1006	Chloramine as Cl2	4500Cl-G	4.0	0.05	ND	05/06/11	10:25
1008	Chlorine Dioxide	4500Cl02D0	0.8	0.1	ND	05/06/11	10:25



ANALYTICAL REPORT

PAGE 4 OF 7 SAMPLE CODE: 731917

Fed Id #	Analysis Performed	Method	MCL (mg/l)	LRL	Level Detected	Anal Date
-----						
Organic chemicals - trihalomethanes:						
-----						
2942	Bromoform	524.2	---	0.0005	ND	05/10/11
2943	Bromodichloromethane	524.2	---	0.0005	ND	05/10/11
2941	Chloroform	524.2	---	0.0005	ND	05/10/11
2944	Dibromochloromethane	524.2	---	0.0005	ND	05/10/11
2950	Total THMs	524.2	0.080	0.0005	ND	05/10/11

Organic Chemicals-Volatiles:

2990	Benzene	524.2	0.005	0.0005	ND	05/10/11
2993	Bromobenzene	524.2	---	0.0005	ND	05/10/11
2430	Bromochloromethane	524.2	---	0.0005	ND	05/10/11
2214	Bromomethane	524.2	---	0.0005	ND	05/10/11
2422	n-Butylbenzene	524.2	---	0.0005	ND	05/10/11
2428	sec-Butylbenzene	524.2	---	0.0005	ND	05/10/11
2426	tert-Butylbenzene	524.2	---	0.0005	ND	05/10/11
2982	Carbon Tetrachloride	524.2	0.005	0.0005	ND	05/10/11
2989	Chlorobenzene	524.2	0.1	0.0005	ND	05/10/11
2216	Chloroethane	524.2	---	0.0005	ND	05/10/11
2210	Chloromethane	524.2	---	0.0005	ND	05/10/11
2965	2-Chlorotoluene	524.2	---	0.0005	ND	05/10/11
2966	4-Chlorotoluene	524.2	---	0.0005	ND	05/10/11
2408	Dibromomethane	524.2	---	0.0005	ND	05/10/11
2968	1,2-Dichlorobenzene	524.2	0.6	0.0005	ND	05/10/11
2967	1,3-Dichlorobenzene	524.2	---	0.0005	ND	05/10/11
2969	1,4-Dichlorobenzene	524.2	0.075	0.0005	ND	05/10/11
2212	Dichlorodifluoromethane	524.2	---	0.0005	ND	05/10/11
2978	1,1-Dichloroethane	524.2	---	0.0005	ND	05/10/11
2980	1,2-Dichloroethane	524.2	0.005	0.0005	ND	05/10/11
2977	1,1-Dichloroethene	524.2	0.007	0.0005	ND	05/10/11
2380	cis-1,2-Dichloroethene	524.2	0.07	0.0005	ND	05/10/11
2979	trans-1,2-Dichloroethene	524.2	0.1	0.0005	ND	05/10/11
2983	1,2-Dichloropropane	524.2	0.005	0.0005	ND	05/10/11
2412	1,3-Dichloropropane	524.2	---	0.0005	ND	05/10/11
2416	2,2-Dichloropropane	524.2	---	0.0005	ND	05/10/11
2410	1,1-Dichloropropene	524.2	---	0.0005	ND	05/10/11
2228	cis-1,3-Dichloropropene	524.2	---	0.0005	ND	05/10/11
2224	trans-1,3-Dichloropropene	524.2	---	0.0005	ND	05/10/11
2992	Ethylbenzene	524.2	0.7	0.0005	ND	05/10/11



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ANALYTICAL REPORT

PAGE 5 OF 7 SAMPLE CODE: 731917

Fed Id #	Analysis Performed	Method	MCL (mg/l)	LRL	Level Detected	Anal Date
-----						
Organic chemicals - volatiles						
-----						
2246	Hexachlorobutadiene	524.2	---	0.0005	ND	05/10/11
2994	Isopropylbenzene	524.2	---	0.0005	ND	05/10/11
2030	4-Isopropyltoluene	524.2	---	0.0005	ND	05/10/11
2964	Dichloromethane	524.2	0.005	0.0005	ND	05/10/11
2248	Naphthalene	524.2	---	0.0005	ND	05/10/11
2998	Propylbenzene	524.2	---	0.0005	ND	05/10/11
2996	Styrene	524.2	0.1	0.0005	ND	05/10/11
2986	1,1,1,2-Tetrachloroethane	524.2	---	0.0005	ND	05/10/11
2988	1,1,2,2-Tetrachloroethane	524.2	---	0.0005	ND	05/10/11
2987	Tetrachloroethene	524.2	0.005	0.0005	ND	05/10/11
2991	Toluene	524.2	1	0.0005	ND	05/10/11
2420	1,2,3-Trichlorobenzene	524.2	---	0.0005	ND	05/10/11
2378	1,2,4-Trichlorobenzene	524.2	0.07	0.0005	ND	05/10/11
2981	1,1,1-Trichloroethane	524.2	0.2	0.0005	ND	05/10/11
2985	1,1,2-Trichloroethane	524.2	0.005	0.0005	ND	05/10/11
2984	Trichloroethene (TCE)	524.2	0.005	0.0005	ND	05/10/11
2218	Trichlorofluoromethane	524.2	---	0.0005	ND	05/10/11
2904	Trichlorotrifluoroethane	524.2	---	0.0005	ND	05/10/11
2414	1,2,3-Trichloropropane	524.2	---	0.0005	ND	05/10/11
2418	1,2,4-Trimethylbenzene	524.2	---	0.0005	ND	05/10/11
2424	1,3,5-Trimethylbenzene	524.2	---	0.0005	ND	05/10/11
2976	Vinyl Chloride	524.2	0.002	0.0005	ND	05/10/11
2251	Methyl-Tert-Butyl-Ether	524.2	---	0.0005	ND	05/10/11
2247	Methyl Ethyl Ketone	524.2	---	0.005	ND	05/10/11
2997	o-Xylene	524.2	---	0.0005	ND	05/10/11
2995	m-Xylene(1)	524.2	---	0.0005	ND	05/10/11
2962	p-Xylene(1)	524.2	---	0.0005	ND	05/10/11
2955	Xylenes (Total)	524.2	10			
-----						



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ANALYTICAL REPORT

PAGE 6 OF 7 SAMPLE CODE: 731917

Fed Id #	Analysis Performed	Method	MCL (mg/l)	LRL	Level Detected	Anal Date
2010	Lindane	505	0.0002	0.00002	ND	05/06/11
2015	Methoxychlor	505	0.04	0.0001	ND	05/06/11
2383	Total PCBs (2)	505	0.0005	0.0005	ND	05/06/11
2020	Toxaphene	505	0.003	0.001	ND	05/06/11
2110	Silvex(2,4,5-TP)	515.2	0.05	0.0002	NA	
2105	2,4-D	515.2	0.07	0.0001	NA	
2051	Alachlor	508.1	0.002	0.0002	ND	05/18/11
2356	Aldrin	505	---	0.00007	ND	05/06/11
2050	Atrazine	508.1	0.003	0.0001	ND	05/18/11
2959	Chlordane	505	0.002	0.0001	ND	05/06/11
2031	Dalapon	515.3	0.2	0.001	NA	
2440	Dicamba	515.2	---	0.001	NA	
2933	Dichloran	505	---	0.001	ND	05/06/11
2070	Dieldrin	505	---	0.00002	ND	05/06/11
2041	Dinoseb	515.2	0.007	0.0002	NA	
2065	Heptachlor	505	0.0004	0.00001	ND	05/06/11
2067	Heptachlor Epoxide	505	0.0002	0.00001	ND	05/06/11
2274	Hexachlorobenzene	505	0.001	0.0001	ND	05/06/11
2042	Hexachlorocyclopentadiene	505	0.05	0.0001	ND	05/06/11
2934	Pentachloronitrobenzene	505	---	0.0001	ND	05/06/11
2326	Pentachlorophenol	515.2	0.001	0.00004	NA	
2040	Picloram	515.2	0.5	0.0001	NA	
2037	Simazine	508.1	0.004	0.0001	ND	05/18/11
2055	Trifluralin	505	---	0.001	ND	05/06/11
2625	Bentazon	515.2	---	0.001	NA	
-----						
Volatile Organic Chemicals - method 504.1						
-----						
2931	1,2-Dibromo3chloropropane	504.1	0.0002	0.00001	ND	05/11/11
2946	1,2-Dibromoethane	504.1	0.00005	0.00001	ND	05/11/11
-----						



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## ANALYTICAL REPORT

PAGE 7 OF 7 SAMPLE CODE: 731917

Fed Id #	Analysis Performed	Method	MCL (mg/l)	LRL	Level Detected	Anal Date
2453	Monobromoacetic Acid	552.2	---	0.0010	ND	05/27/11
2450	Monochloroacetic Acid	552.2	---	0.0010	0.0018	05/27/11
2451	Dichloroacetic Acid	552.2	---	0.0010	ND	05/27/11
2452	Trichloroacetic Acid	552.2	---	0.0010	ND	05/27/11
2454	Dibromoacetic Acid	552.2	---	0.0010	ND	05/27/11
2456	Total Haa's (HAA5)	552.2	0.06	0.0010	0.0018	05/27/11
2021	Carbaryl	531.2	---	0.001	ND	05/17/11
2022	Methomyl	531.2	---	0.001	ND	05/17/11
2043	Aldicarb sulfoxide	531.2	0.007	0.001	ND	05/17/11
2044	Aldicarb sulfone	531.2	0.007	0.001	ND	05/17/11
2047	Aldicarb	531.2	0.007	0.001	ND	05/17/11
2066	3-Hydroxycarbofuran	531.2	---	0.001	ND	05/17/11
2036	Oxamyl	531.2	0.2	0.001	ND	05/17/11
2046	Carbofuran	531.2	0.04	0.001	ND	05/17/11
2045	Metolachlor	525.2	---	0.0002	ND	06/07/11
2076	Butachlor	525.2	---	0.0002	ND	06/07/11
2077	Propachlor	525.2	---	0.0002	ND	06/07/11
2005	Endrin	525.2	0.002	0.0002	ND	06/07/11
2595	Metribuzin	525.2	---	0.0002	ND	06/07/11
2626	Molinate	525.2	---	0.0002	ND	06/07/11
2035	Di(2-ethylhexyl) adipate	525.2	0.4	0.0002	ND	06/07/11
2039	Di(2-ethylhexyl) phthalate	525.2	0.006	0.0006	ND	06/07/11
2306	Benzo(A)pyrene	525.2	0.0002	0.0002	ND	06/07/11
2627	Thiobencarb	525.2	---	0.0002	ND	06/07/11
2034	Glyphosate	547	0.7	0.006	ND	05/06/11
2033	Endothall	548.1	0.1	0.009	ND	06/06/11
2032	Diquat	549.2	0.02	0.001	ND	05/17/11

504.1- Date Extracted: 05/11/11  
 505 - Date Extracted: 05/06/11  
 508.1- Date Extracted: 05/16/11  
 525.2- Date Extracted: 05/12/11  
 548.1- Date Extracted: 05/26/11  
 549.2- Date Extracted: 05/03/11  
 552.2- Date Extracted: 05/27/11

These test results may be used for compliance purposes as required.

- (1) Due to the limitations of EPA Method 524.2, m and p isomers of xylene are reported as an aggregate.
- (2) Total PCB's consists of the following Aroclors, each with a LRL of 0.0005 mg/L; 1016, 1221, 1232, 1242, 1248, 1254 and 1260.

David J. Vesey, Lab Director

Laboratory ID: 00417

**National Testing Laboratories, Ltd**

556 South Mansfield, Ypsilanti, MI, 48197-5166  
(440) 449-2525, Fax: (440) 449-8585

**ANALYTICAL REPORTS**

**SAMPLE CODE: 301257**

**5/10/2011**

**Customer:** Central Carolina Bottling  
Robert Smith  
dba Grand Springs Distribution  
2140 Mt Carmel Rd.  
Alton, VA 24520-3570

**Source:** Grand Springs  
**Type of Water:** Spring Water  
**Brand Name:** Grand Springs Natural Spring Water  
**Production Code:** 07:10 042511 Exp.04252013  
**Container Size:** 0.5 Liter

**Date/Time Received:** 5/2/2011 09:05

**Collected by:** J. Burton

The results herein conform to NELAC standards, where applicable, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

**Legend:**

Any Level Detected in **RED** or marked with \* indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

**"ND"** This contaminant was not detected at or above our lower reporting limit (LRL)

**"NA"** Not Analyzed

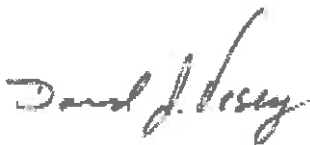
**"Standard"** This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.

**"LRL"** This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

**Notes:**

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	Date/Time Sampled	Date/Time Extracted	Date/Time Analyzed
<b>Microbiologicals</b>									
3114	E Coli	9223B	1	MPN/100 mL	1	ND	5/3/2011 12:25		5/3/2011 15:05
3001	Standard Plate Count	9215B	500	CFU/ml	1	<1	5/3/2011 12:25		5/3/2011 12:25
3000	Total Coliform	9223B	1	MPN/100 mL	1	ND	5/3/2011 12:25		5/3/2011 15:05

These test results may be used for compliance purpose as required.



David Vesey, Technical Director



Pace Analytical Services, Inc.  
1700 Elm Street  
Minneapolis, MN 55414  
Phone: 612.607.1700  
Fax: 612.607.6444

**Report Prepared for:**

Susan Henderson  
National Testing Laboratories  
6571 Wilson Mills Road  
Cleveland OH 44143

**REPORT OF  
LABORATORY  
ANALYSIS FOR  
2,3,7,8-TCDD**

**Report Summary:**

Enclosed are analytical results of one drinking water sample analyzed for 2,3,7,8-TCDD content. The results reported for this sample and the associated quality control samples were all within the criteria described in Method 1613B.

It should be noted that this field sample was received outside the recommended temperature range. Analysis was completed upon client approval. If you have any questions or concerns regarding these results, please contact Nate Habte, your Pace Project Manager.

**Pace Project Number:**  
10156363

**Report Prepared Date:**  
May 18, 2011

**Finished Product**

Company Name: Central Carolina Bot DBA Gr  
Company City & State: Alton VA  
Sample ID: 731917  
Source Name: Grand Springs  
Source Location: Alton VA  
PWS ID: N/A  
Date & Time Opened: 05/11/2011 @ 16:40  
Opened By: CTS  
Laboratory Sample ID: 10156363001  
Date Sampled: 05/11/2011 @ 16:40  
Date Received: 05/04/2011 @ 09:00

**This report has been reviewed by:**

May 18, 2011

Nate Habte, Project Manager  
(612) 607-6407  
(612) 607-6444 (fax)  
natnacl.habte@pacelabs.com



**Report of Laboratory Analysis**

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.



## Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
Alabama	40770	Montana	92
Alaska	MN00064	Nebraska	
Arizona	AZ0014	Nevada	MN000642010A
Arkansas	88-0680	New Jersey (NE)	MN002
California	01155CA	New Mexico	MN00064
Colorado	MN00064	New York (NEL)	11647
Connecticut	PH-0256	North Carolina	27700
EPA Region 5	WD-15J	North Dakota	R-036
EPA Region 8	8TMS-Q	Ohio	4150
Florida (NELAP)	E87605	Ohio VAP	CL101
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL)	MN200001-005
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennessee	2818
Iowa	368	Tennessee	02818
Kansas	E-10167	Texas	T104704192-08
Kentucky	90062	Utah (NELAP)	PAM
Louisiana	LA0900016	Virginia	00251
Maine	2007029	Washington	C755
Maryland	322	West Virginia	9952C
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-Q
Mississippi	MN00064		

## REPORT OF LABORATORY ANALYSIS

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## Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- \* = See Discussion

### REPORT OF LABORATORY ANALYSIS

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**NATIONAL TESTING LABORATORY**

PHONE: (800) 458-3330 FAX: (440) 449-8585

**PLEASE COMPLETE THIS FORM AND RETURN IT WITH YOUR WATER SAMPLE. THE INFORMATION AS PROVIDED HEREIN WILL BE USED TO REPORT YOUR ANALYTICAL RESULTS. THE BLOCK TO THE EIGHT IS RESERVED FOR OUR LABORATORY USE ONLY.**

**COMPANY INFORMATION:**

4-26-11

CENTRAL CAROLINA BOT  
DBA GRAND SPRING DISTRIB.  
2140 MOUNT CARMEL RD  
ALTON VA 24520

PWS ID# (If applicable)

CONTACT NAME Robert A. Smith

TELEPHONE NO. 434-753-2515

FAX NO. 434-753-1413

**FINISHED PRODUCT INFORMATION:** (Information in yellow is CRITICAL.)

SOURCE TYPE:  SPRING  WELL  MUNICIPAL  OTHER

SOURCE NAME Grand Springs  
(Source information IS REQUIRED for all Finished Products)

CITY \_\_\_\_\_ STATE \_\_\_\_\_  
(If different than above) (If different than above)

PRODUCT COLLECTED BY Jean Burton  
(Signature)

PRODUCT COLLECTED BY Jean Burton  
(Please Print)

If finished product is submitted in laboratory containers, complete the following information.  
Date Opened: 1 1 Time Opened (in military time, is 15:00 - 3:00 pm): \_\_\_\_\_  
Check Time Zone:  EST  CST  MST  PST

BRAND NAME/PRODUCT TYPE: Grand Springs Natural  
(ie: XYZ Spring Water or XYZ Distilled Water)

CONTAINER SIZE 0.5 liter (16.9 fl oz) Spring water

PRODUCTION CODE OR LOT NO. 07:10042511 Exp. 042520

FORM COMPLETED BY Jean Burton  
(Please Print)

IF PENNSYLVANIA REPORTING IS REQUIRED AND YOUR PRODUCT IS GREATER THAN 1.77 LF

LOCATION \_\_\_\_\_ PENN. PWS ID # \_\_\_\_\_

ADDITIONAL COMMENTS ADD 38166 W  
opened 5/2/11 @ 13:50

10156363001

LAB ACCOUNTING IN. 731917 SER

PAYMENT \$ \_\_\_\_\_

CHECK # \_\_\_\_\_

LAB SPECIAL INSTRUCTIONS:

1143063 - 0195  
50 DDBP  
GRP 1-5, DDBP, CAADDON  
R:91959610 TSR:BLM/V

LAB COMMENTS:

SPRING PRODUCT ANNUAL  
TEST \*GA & NY REPORTING\*  
E-MAIL: ROBERT SMITH

LAB SAMPLE INFORMATION:

DATE RCVD.: 5/2/11 TIME (military): 9:05

BY: JR  
(Signature)

OPENED DATE: 5/2/11 TIME (military): 13:50

BY: JR JR  
(Signature)

Sample receipt criteria checked & acceptable.

Deviations from acceptable sample receipt criteria noted on PSA form.

**50++ SUB LIST**

PACE, PA-A/B, 226, 228

PACE, MN-DIOXIN

EMSL-ASBESTOS

U.L. -Cn & PERCHLORATE

A & L-RADON\*

NSF- PHENOLS, 515.3



Sample Condition Upon Receipt

10196361  
10196362  
10196363

Client Name: NATIONAL TESTING LABS Project # 10196363

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

Tracking #: 1Z A 1 V 9 3 1 0 3 4 2 2 1 9 5 1 2



Custody Seal on Cooler/Box Present:  yes  no Seals Intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bag  None  Other FOAM Temp Blank: Yes \_\_\_\_\_ No

Thermometer Used 80344042 or 179425 Type of Ice: Wet Blue None  Samples on Ice, cooling process has begun

Cooler Temperature 16.6°  
Temp should be above freezing to 8°C

Biological Tissue is Frozen: Yes No

Date and Initial of person examining contents: 5/4/11 PM

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>WT</u>		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, W-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: UP-graded finished product -> proceed despite temp exceedance

Project Manager Review: \_\_\_\_\_

NHT

Date: 5/6/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR, Inc. F-1213 Rev.00, 05Aug2009 1700 Elm Street SE, Suite 200, Minneapolis, MN 55414



### ANALYTICAL RESULTS

Project: 1143063

Pace Project No.: 3046053

**Sample: 731917**      **Lab ID: 3046053001**      Collected: 05/04/11 10:50      Received: 05/04/11 10:50      Matrix: Drinking Water  
PWS:      Site ID:      Sample Type:

Comments: • FINISHED WATER, Grand Springs  
• Grand Springs, Natural Spring Water, Cont. size: 0.5 Liter, Prod. Code: 07:10042511Exp:042520  
• Sample opened on 5/4/11 @ 10:50 by ROR

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0	<b>0.616 ± 0.347 (0.523)</b>	pCi/L	05/14/11 13:51	12587-46-1	
Gross Beta	EPA 900.0	<b>2.47 ± 0.527 (0.804)</b>	pCi/L	05/14/11 13:51	12587-47-2	
Radium-226	EPA 903.1	<b>0.176 ± 0.257 (0.431)</b>	pCi/L	05/23/11 11:45	13982-63-3	
Radium-228	EPA 904.0	<b>0.397 ± 0.439 (0.955)</b>	pCi/L	05/23/11 12:02	15262-20-1	



**NSF International**

789 N. Dixboro Rd. Ann Arbor, MI 48105, USA  
1-800.NSF.MARK | +1-734.769.8010 | www.nsf.org

# TEST REPORT

**Send To: C0023226**

Ms. Susan Henderson  
National Testing Laboratories, Ltd.  
6571 Wilson Mills Road  
Cleveland, OH 44143

**Facility: C0023227**


National Testing Laboratories, Ltd.  
556 South Mansfield Street  
Ypsilanti, MI 48197

Result	COMPLETE	Report Date	19-MAY-2011
Customer Name	National Testing Laboratories, Ltd.		
Tested To	USFDA CFR Title 21 Part 165.110		
Description	Sample #731917   Order #1143063		
Test Type	Test Only		
Job Number	J-00101034		
Project Number	9108193 (CL17)		
Project Manager	Myla Estacio		

**Thank you for having your product tested by NSF International.**

Please contact your Project Manager if you have any questions or concerns pertaining to this report.

**Report Authorization**

  
Kurt Kneen - Director, Chemistry Laboratory

**Date** 19-MAY-2011

**General Information**

Standard: USFDA CFR Title 21 Part 165.110  
 Date and Time Sampled: Finished product  
 Product Description: Order #1143063  
 Trade Name: Sample #731917

Sample Id: **S-0000830219**  
 Description: Sample #731917 Order #1143063 Finished product  
 Sampled Date: 05/05/2011  
 Received Date: 05/05/2011

Testing Parameter	Detection Limit	Result	FDA SOQ	Units	P / F
<b>Inorganic Chemicals</b>					
Phenolics	0.001	ND	0.001	mg/L	Pass
<b>Organic Chemicals</b>					
Herbicides (Ref: EPA 515.3)					
2,4,5-TP	0.2	ND	50	ug/L	Pass
2,4-D	0.1	ND	70	ug/L	Pass
Bentazon	0.2	ND		ug/L	
Dalapon	1	ND	200	ug/L	Pass
DCPA Acid Metabolites	0.2	ND		ug/L	
Dicamba	0.1	ND		ug/L	
Dinoseb	0.2	ND	7	ug/L	Pass
Pentachlorophenol	0.04	ND	1	ug/L	Pass
Picloram	0.1	ND	500	ug/L	Pass



<<Additional Information>>

Sample Id: S-0000830219

Test Parameter	Date Analyzed	Time Analyzed	Date Prepared/ Processed
<b>Inorganic Chemicals</b>			
* Phenolics, Total Recoverable (Ref: EPA 420.2)	6-MAY-2011		
<b>Organic Chemicals</b>			
Herbicides (Ref: EPA 515.3)	16-MAY-2011		13-MAY-2011



**Testing Laboratories:**

	Flag	Id	Address
All work performed at: (Unless otherwise specified)		NSF_AA	NSF International 789 N. Dixboro Road Ann Arbor MI 48105

**References to Testing Procedures:**

NSF Reference	Parameter / Test Description
C3021	* Phenolics, Total Recoverable (Ref: EPA 420.2)
C4202	Herbicides (Ref: EPA 515.3)

**Certifications:**

Arizona ( # AZ0655 )	California ( # 01149 CA )	Connecticut ( # PH-0625 )
Florida ( # E-87752 FL )	Hawaii	Indiana
Maryland ( # 201 )	Michigan ( # 0048 )	North Carolina ( # 26701 )
New Jersey ( # 62770 )	Nevada ( # MI000302010A )	New York ( # 11206 )
Pennsylvania ( # 68-00312 )	South Carolina ( # 81005 )	Virginia ( # 00045 )
Vermont ( # VT 11206 )		

Test descriptions preceded by an asterisk "\*" indicate that testing has been performed per NSF International requirements but is not within its scope of accreditation.

The reported result for Odor, Phenolics, Potassium, Specific Conductance and Total Residual Chlorine cannot be used for compliance purposes within the State of Arizona.

**Notes:**

- 1) Bottled water sold in the United States shall not contain Fluoride in excess of the levels published by the USFDA in 21 CFR Part 165.110. These levels are based on the annual average of maximum daily air temperatures at the location where the bottled water is sold at retail. Please refer to the most current edition of the regulation to determine the Fluoride maximum level that pertains to your product.
- 2) A blank on the FDA SOQ column indicates that no maximum level has been established by the FDA for that contaminant.
- 3) An ND result means that the contaminant was not detected at or above the detection limit for the instrument.



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Phone: (800) 220-3675 Fax: (856) 786-5974 Web: http://www.emsl.com Email: westmontaslab@EMSL.com

Attn: Susan Henderson
National Testing Laboratories, Inc.
6571 Wilson Mills Road
Cleveland, OH 44143

EMSL Order: 041110840
Customer ID: NTL178
Customer PO:
EMSL Project ID:
Received: 5/03/2011
Analyzed: 5/17/2011

Fax: (Ema) il -only Phone: (440) 449-2525

Project:

Test Report: Determination of Asbestos Structures >10µm in Drinking Water
Performed by the 100.2 Method (EPA 600/R-94/134)

ASBESTOS

Table with columns: Sample ID Client / EMSL, Sample Filtration Date/Time, Original Sample Vol. Filtered (ml), Effective Filter Area (mm²), Area Analyzed (mm²), Asbestos Types, Fibers Detected, Analytical Sensitivity, Concentration, Confidence Limits. Includes data for sample 831917 and 041110840-0001.

Initial report from: 05/17/2011 22:26:22

Analyst(s)

Wayne Froehlich (1)

Handwritten signature of Stephen Siegel

Stephen Siegel, CIH, Laboratory Manager
or other Approved Signatory

Any questions please contact Steve Siegel.

Sample collection and containers provided by the client, acceptable bottle blank level is defined as ≤0.01MFL>10µm. ND=Non Detected. This report may not be reproduced, except in full, without written permission by EMSL Analytical, Inc. The test results contained within this report meet the requirements of NELAC unless otherwise noted. This report relates only to the samples reported above. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAC NYS ELAP 10872, NJ DEP 03036, FL DOH E87975







LABORATORY REPORT

Client: National Testing Laboratories
Attn: Susan Henderson
6571 Wilson Mills Road
Cleveland, OH 44143

Report: 261758
Priority: Standard Written
Status: Final
PWSID #: Not Supplied
Lab Cert #: M-IN035
Source Type: Spring
Source Name: Grand Springs
City: Alton, VA

Brand Name/Product Type: Grand Springs Natural Spring Water

Container Size: 0.5 liter (16.9 fl Oz)

Production Code or Lot No.: 07:10 042511 Exp. 042520

Samples Submitted: Two Finished Product Samples

National Testing #: 1143063-0195

Sample Opened
Date: 05/04/11 Time: 09:10

By: UL

Log-in
Date: 05/03/11 Time: 10:15

Table with 10 columns: Analyte ID #, Analyte, Method, Reg Limit, MRL†, Result, Units, Preparation Date, Analyzed Date, UL ID #. Rows include Perchlorate and Cyanide, Total.

Note: Samples were provided by the client in sealed finished product containers. The samples were poured off into UL containers upon receipt.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Traci Chlebowski at (574) 233-4777. The results presented relate only to the samples provided for analysis.

Note: This report may not be reproduced, except in full, without written approval from Underwriters Laboratories (UL).

† UL has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Table with 4 columns: Reg Limit Type, MCL, SMCL, AL. Row 1: Symbol: \* ^ !

Traci Chlebowski (handwritten signature)

Authorized Signature

5/17/2011 (handwritten date)

Date

Bottled Water Certification

Firm: Central Carolina Bottling

Date of Analyses: 06/21/2011

State/Country: Alton, VA

Source (by name or No.): 731917

Source Sample X Finished Product Sample

START-UP AND ANNUAL TESTING

(b)(4)(i)(B) Contaminant	MCL (mg/L)	Results	MDL	Contaminant	MCL (mg/L)	Results	MDL
<b>Chemical Quality</b>							
Aluminum	0.2	ND	0.05				
Arsenic	0.05	ND	0.002	Total Dissolved Solids <sup>1</sup>	500	92	5
Chloride <sup>1</sup>	250.0	3.4	1.0	Zinc <sup>1</sup>	5.0	ND	0.004
Iron <sup>1</sup>	0.3	ND	0.020	Trihalomethanes (Total)	0.1	ND	0.0005
Manganese <sup>1</sup>	0.05	ND	0.004				
Phenols	0.001	ND	0.001				
Silver	0.1	ND	0.002	Fluoride	***	0.11	0.10
Sulfate <sup>1</sup>	250.0	ND	5.0				

\*\*\* See Table 1 and 2 (21 CFR Part 165) 1. Mineral water is exempt from allowable level. The exemptions are aesthetically based on allowable levels and do not relate to a health concern. ND= NONE DETECTED NA= NOT ANALYZED  
 TNTC-NC= TOO NUMEROUS TO COUNT NON COLIFORM- RETEST REQUESTED.

Contaminant (b)(4)(iii)(A)	MCL (mg/L)	Results	MDL	Contaminant	MCL	Results	MDL
<b>Inorganic Chemicals/Physical</b>							
Antimony	0.006	ND	0.003	Total Nitrate/Nitrite	10.0	0.72	0.50
Barium	2.0	ND	0.10	Selenium	0.05	ND	0.002
Beryllium	0.004	ND	0.001	Thallium	0.002	ND	0.001
Cadmium	0.005	ND	0.001	Color	15 units	ND	3.0
Cyanide	0.2	ND	0.02	Corrosivity		-2.4	---
Chromium	0.1	ND	0.007	Total Plate Count		<1	1
Copper	1.0	ND	0.002	Coliform		ND	0
Lead	0.005	ND	0.001	Fecal Coliform	0	ND	0
Mercury	0.002	ND	0.0002	Ph		6.1	---
Nickel	0.1	ND	0.005				
Nitrite	1.0	ND	0.05				
(b)(4)(iii)(B) Contaminant	MCL (mg/L)	Results	MDL	Contaminant	MCL (mg/L)	Results	MDL
<b>VOC's</b>							
				1,2-Dichloropropane	0.005	ND	0.0005
				Ethylbenzene	0.7	ND	0.0005
Benzene	0.005	ND	0.0005	Monochlorobenzene	0.1	ND	0.0005
Carbon Tetrachloride	0.005	ND	0.0005	Styrene	0.1	ND	0.0005
o-Dichlorobenzene	0.6	ND	0.0005	Tetrachloroethylene	0.005	ND	0.0005
p-Dichlorobenzene	0.075	ND	0.0005	Toluene	1.0	ND	0.0005
1,2-Dichloroethane	0.005	ND	0.0005	1,2,4-Trichlorobenzene	0.07	ND	0.0005
1,1-Dichloroethylene	0.007	ND	0.0005	1,1,2-Trichloroethane	0.005	ND	0.0005
cis-1,2-Dichloroethylene	0.07	ND	0.0005	1,1,1-Trichloroethane	0.20	ND	0.0005
Trans-1,2-Dichloroethylene	0.1	ND	0.0005	Trichloroethylene	0.005	ND	0.0005
Dichloromethane	0.005	ND	0.0005	Vinyl Chloride	0.002	ND	0.0005
				Xylenes (Total)	10.0	ND	0.0005

(b)(4)(H)(C) Contaminant	MCL (mg/L)	Results	MDL	Contaminant	MCL (mg/L)	Results	MDL
SOC's				Ethylene dibromide	0.00005	ND	0.00001
				Glyphosate	0.7	ND	0.006
Alachlor	0.002	ND	0.0002	Heptachlor	0.0004	ND	0.00001
Atrazine	0.003	ND	0.0001	Heptachlor epoxide	0.0002	ND	0.00001
Benzo(a)pyrene	0.0002	ND	0.0002	Hexachlorobenzene	0.001	ND	0.0001
Carbofuran	0.04	ND	0.001	Hexachlorocyclopentadiene	0.05	ND	0.0001
Chlordane	0.002	ND	0.0001				
Dalapon	0.2	ND	0.001	Lindane	0.0002	ND	0.00002
1,2-Dibromo 3-chloropropane	0.0002	ND	0.00001	Methoxychlor	0.04	ND	0.0001
2,4-D	0.07	ND	0.0001	Oxamyl	0.2	ND	0.001
Di(2-ethylhexyl)adipate	0.4	ND	0.0002	Pentachlorophenol	0.001	ND	0.00004
Dinoseb	0.007	ND	0.0002	PCB's	0.0005	ND	0.0005
Diquat	0.02	ND	0.020	Picloram	0.5	ND	0.0001
Endothall	0.1	ND	0.009	Simazine	0.004	ND	0.0001
Endrin	0.002	ND	0.0002	2,3,7,8-TCDD(Dioxin)	3x10 <sup>-9</sup>	ND	5.0
				Toxaphene	0.003	ND	0.001
				2,4,5-TP (Silvex)	0.05	ND	0.0002

**Radiological  
START-UP AND ANNUAL TESTING**

1. The bottled water shall not contain a combined radium 226 and radium 228 activity in excess of 5 picocuries per liter of water.
2. The bottled water shall not contain a gross alpha particle activity (including radium 226, but excluding radon and uranium) in excess of 15 picocuries per liter of water.
3. \*\*The bottled water shall not contain beta particle and photon radioactivity from man-made radionuclides in excess of that which would produce an annual dose equivalent to the total body or any internal organ of 4 millirems per year calculated on the basis of an intake of 2 liters of the water per day.

Contaminant	MDL	Results	MCL	Units
Gross Alpha	0.523	0.616+-0.347	15	pCi/L
Gross Beta	0.804	2.47+-0.527	**	
Radium 226	0.431	0.176+-0.257	5	pCi/L
Radium 228	0.955	0.397+-0.439	5	pCi/L

Notarized Signature of Chemist in Charge or Project Manager

06 / 21 / 11  
Date

Natural Testing Labs  
Laboratory

Supporting Documents?  
 Yes       No  
 If "yes" notary is not required.