

ROY COOPER
Governor
ELIZABETH S. BISER
Secretary
MICHAEL SCOTT
Director



August 24, 2023

Mr. & Mrs. Robert Barnard
P.O. Box 228
Townsville, NC 27584

Dear Mr. & Mrs. Barnard:

Subject: Water Supply Well Sample Results for 76 Stoney Ridge Lane, Townsville (WSW-9)
(TF-5620/Townsville Auto Incident/Burlington/Alamance Co.)

On July 28, 2023, our Trust Fund contractor sampled the water supply well located on the subject property. The sample was collected as part of the ongoing investigation of a petroleum release associated with the incident known to us as Townsville Auto.

The laboratory results and the associated health risk evaluation are enclosed. According to our toxicologist, there are no restrictions on the use of the water at this time. If you have questions regarding the evaluation, please contact Dave Lilley, Environmental Toxicologist at 919-707-8241 or david.lilley@deq.nc.gov.

If you have any other questions, please contact me at 919-522-7955 or linda.blalock@deq.nc.gov (this is the best way to reach me).

Sincerely,

Linda L. Blalock

Linda L. Blalock
Environmental Engineer
Federal Trust Fund

Enclosures



North Carolina Department of Environmental Quality | Division of Waste Management
217 West Jones Street | 1646 Mail Service Center | Raleigh, North Carolina 27699-1646
919.707.8200



August 11, 2023

TO: Linda Blalock
NC UST Section

RE: Health Risk Evaluation
Incident # 5620
Robert and Judith Barnard Well Sampling Results
76 Stoney Ridge Lane
Townsville, NC

During this sampling event, three contaminants were detected in the well water. The standards used to determine if the water is suitable for drinking and cooking are the United States Environmental Protection Agency's Maximum Contaminant Levels (MCLs) or, if no MCLs exist, North Carolina Groundwater Standards (2L).

If any contaminant concentrations exceed applicable standards for using the water for drinking and cooking, those contaminant concentrations are further analyzed to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. The chart below compares the detected contaminant concentrations with the applicable standards:

Sample ID	Contaminant	Concentration (µg/L)	MCL (µg/L)	2L (µg/L)
LA92716-8	1,2-Dichloroethane	0.27	5	
	Methyl Tert Butyl Ether	1.3		20
	Ethyl Alcohol	12.9		4,000*

µg/L – Stands for micrograms of contaminant per liter of water and is roughly equivalent to parts per billion.

* This value is an Interim Maximum Allowable Concentration (IMAC).

RECOMMENDATION: None of the contaminants detected exceeded the applicable water standards. Therefore, no restrictions on the use of this water are recommended at this time.

David Lilley, Environmental Toxicologist
Division of Waste Management, NCDEQ



Report of Analysis

Client Sample ID:	WSW-9	Date Sampled:	07/28/23
Lab Sample ID:	LA92716-8	Date Received:	08/01/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SM 6200B		
Project:	Townsville Auto Parts, Hwy 39 N, Townsville, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2K0148079.D	1	08/04/23 18:35	MB	n/a	n/a	V2K4171
Run #2							

	Purge Volume
Run #1	25.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.2	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.18	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.12	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.18	ug/l	
75-25-2	Bromoform	ND	0.50	0.10	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.092	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.14	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.16	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.20	0.092	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.16	ug/l	
75-00-3	Chloroethane	ND	0.50	0.055	ug/l	
67-66-3	Chloroform	ND	0.50	0.094	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.16	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	0.20	0.075	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan ^a	ND	0.50	0.13	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.24	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.12	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	0.063	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.27	0.20	0.12	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.094	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.11	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.15	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.30	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.21	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.079	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.12	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.10	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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Method:	SM 6200B		
Project:	Townsville Auto Parts, Hwy 39 N, Townsville, NC		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.056	ug/l	
108-20-3	Di-Isopropyl Ether	ND	0.50	0.073	ug/l	
64-17-5	Ethyl Alcohol	12.9	50	8.4	ug/l	J
100-41-4	Ethylbenzene	ND	0.50	0.20	ug/l	
591-78-6	2-Hexanone	ND	1.0	0.42	ug/l	
87-68-3	Hexachlorobutadiene	ND	0.20	0.11	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.23	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.066	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.11	ug/l	
75-09-2	Methylene Chloride	ND	0.50	0.080	ug/l	
78-93-3	Methyl Ethyl Ketone	ND	25	0.28	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.3	0.50	0.068	ug/l	
91-20-3	Naphthalene	ND	0.50	0.10	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.22	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.18	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.12	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.22	ug/l	
108-88-3	Toluene	ND	0.50	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.16	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.17	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.16	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.30	0.17	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.18	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.073	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.023	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ug/l	
108-05-4	Vinyl Acetate	ND	0.50	0.069	ug/l	
75-01-4	Vinyl Chloride	ND	0.10	0.075	ug/l	
	m,p-Xylene	ND	1.0	0.34	ug/l	
95-47-6	o-Xylene	ND	0.50	0.15	ug/l	
1330-20-7	Xylene (total)	ND	0.50	0.16	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	99%		70-130%

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Method:	SM 6200B		
Project:	Townsville Auto Parts, Hwy 39 N, Townsville, NC		

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

(a) Provisional certification.

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RL = Reporting Limit B = Indicates analyte found in associated method blank
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