

Memorandum to File

From: Sue Murphy *SM*
Engineer, Inactive Hazardous Sites Branch
Superfund Section, Division of Waste Management

Date: December 5, 2014

Subject: Poole Road PCE NONCD0002943
Paul's Cash Grocery, Poole and Hodge Roads, Raleigh, Wake County

On November 13, 2014, IHSB sampled various wells in the vicinity of Paul's Cash Grocery at the intersection of Poole and Hodge Roads in Raleigh. The Grocery operates as a convenience store, deli, and restaurant. Ongoing groundwater investigation and remediation in relation to a petroleum release from underground storage tanks (USTs) is being overseen by the UST section of this Division.

On Monday, December 1, 2014, IHSB received the results from the sampling. Of the seven area wells sampled, only the well at Paul's had any contaminants: PCE 9ug/l, MTBE 0.69 ug/l, and chloroform 0.50 ug/l.

On Tuesday, December 2, 2014, David Lilly, DWM Environmental Toxicologist, completed a Health Risk Evaluation for the Paul's sample. The HRE concluded that the well water was not recommended for drinking or cooking. That afternoon, Mr. Lee, the owner of Paul's, was informed by telephone of the sample results and the conclusions of the HRE. Vince Antrilli made the call and spoke with Mr. Lee at length about the contamination and general treatment options. Terraquest, the consultant working for Mr. Lee on the UST remediation at Paul's called Vince Antrilli and Sue Murphy within minutes of IHSB concluding the conversation with Mr. Lee. The sample results and HRE were emailed to Mr. Lee and Terraquest that afternoon. The information was also emailed to the Paul's Cash Grocery NCDENR UST Section project manager, Scott Johnston.

On Wednesday, Sue Murphy emailed to various staff of the Wake County Department of Environmental Services and Wake County Health Departments the results from recent Wake County sampling activities, including the Poole Road vicinity samples.

On Thursday, December 4, 2014:

- Sue Murphy received a call from Caroline Loop and Andre Pierce of Wake County Environmental Services. They requested any HRE information on the well at Paul's Cash Grocery. Mr. Pierce stated that it was the intention of his department to shut the well down.

- Sue Murphy conferred with John Walch, Eastern Regional Supervisor, IHSB, with the two then calling the County to request clarification of the County's intent. Greg Bright, Wake County Groundwater Management Program Supervisor, was out of the office until Monday. Sue and John spoke with Glen Shoemaker, Wake County Groundwater Program Team Leader, asking if any contaminated wells, other than those contaminated with coliform or bacteria, at any other locations within the County, had been shut down by Wake County Environmental Services in the past. IHSB clarified that it is not IHSB policy to require that a well be closed, but that a treatment system is needed if the home or business is not connected to a public water supply. Glen stated that he was unfamiliar with any such well closures, and suggested that we speak with Greg Bright and Caroline Loop. A message was left with Caroline Loop.

On Friday, December 5, 2014:

- Caroline Loop and Andre Pierce called Sue Murphy and discussed their concerns and typical Wake County Department of Environmental Services procedures. No wells were identified as having been shut down by the County for reasons other than fecal coliform contamination. Sue Murphy relayed the concerns and actions taken earlier in the week by the property owner, Mr. Lee, and requested an opportunity for Mr. Lee to act before the County shut down the well. Sue also clarified that it is not IHSB policy to require that a well be closed but a treatment system is needed if the home or business is not connected to a public water supply.
- Sue Murphy called Mr. Lee and asked about well usage since receiving the information on contamination. Mr. Lee stated that the restaurant had used bottled water for cooking and serving, and that the ice machine had been disconnected and bagged ice purchased for use. He also stated that he had received quotes on POE systems, and was working with his consultant to determine what was needed. A meter was being installed on the well to attempt to quantify water usage to best size a system.
- Sue Murphy emailed a summary of the Mr. Lee conversation to Caroline Loop and Andre Pierce, along with a copy of the Health Risk Evaluation performed by David Lilley on the IHSB November sample.

murphy, sue c

From: Caroline.Loop@wakegov.com
Sent: Friday, December 05, 2014 11:14 AM
To: murphy, sue c
Subject: Re: Poole Road PCE

Sue,

Thanks for your work and communication in this matter. I spoke with Dave Lilley this morning after we talked. He will forward the HRE to Dr. Rudo.

It may be useful for all of us (including EH&S) to discuss each of our processes for this type of concern at some point in the future.

Regards,
Caroline

Caroline Loop, Ph.D., P.G.
Hydrogeologist, Groundwater Protection and Wells Program
Wake County Department of Environmental Services
PO Box 550
Raleigh NC 27602
office: 919-856-7469
cell: 919-710-7440

Caroline.Loop@wakegov.com

*Wake County Environmental Services would like your feedback.
In order to participate please [CLICK HERE!](#)*

From: "murphy, sue c" <sue.murphy@ncdenr.gov>
To: "apierce@wakegov.com" <apierce@wakegov.com>, "Caroline.Loop@wakegov.com" <Caroline.Loop@wakegov.com>,
Date: 12/05/2014 10:21 AM
Subject: Poole Road PCE

Please find attached the Health Risk Evaluation for the Paul's Cash Grocery site, Poole and Hodge Roads, Raleigh.

I just spoke with Mr. Lee, the owner, and he informed me that the restaurant is being operated with bottled water for all cooking and ingestive uses. He also stopped operation of the ice machine and is bringing in bagged ice. He has gotten quotes on POE systems and is working with his consultant to determine what is needed.

If you have any questions, please give me a call 919-707-8354

Regards,
Sue

Sue Murphy
Engineer
Inactive Hazardous Sites Branch

murphy, sue c

From: Lilley, David
Sent: Friday, December 05, 2014 11:00 AM
To: Rudo, Ken
Cc: murphy, sue c
Subject: Poole Rd. PCE HRE
Attachments: Poole Rd PCE.docx

Ken,

I just left you a voice mail concerning this. Attached is the HRE I did for Sue a few days ago. I'm off work now and won't be checking emails until Monday, but feel free to call me at (919) 416-6635 if we need to talk today.

Dave

murphy, sue c

From: apierce@wakegov.com
Sent: Friday, December 05, 2014 10:25 AM
To: murphy, sue c
Cc: Caroline.Loop@wakegov.com
Subject: Re: Poole Road PCE

Thank you for the information.

Andre C. Pierce, MPA, REHS
Wake County Environmental Services
Environmental Health and Safety Director
apierce@wakegov.com
919-856-7440 - Phone
919-743-4772 - Fax

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Sue

Sue Murphy
Engineer
Inactive Hazardous Sites Branch
Division of Waste Management
Email: sue.murphy@ncdenr.gov

phone and fax number: (919) 707-8354

physical address: Green Square Complex, DENR Office Building, 217 W Jones St., Raleigh, NC 27603
Mailling address: 1646 Mail Service Center, Raleigh, NC 27699



murphy, sue c

From: Caroline.Loop@wakegov.com
Sent: Thursday, December 04, 2014 5:01 PM
To: murphy, sue c
Cc: gbright@wakegov.com
Subject: RE: Notification of groundwater sampling results and contaminated well

Hi Sue,

Thanks for talking with Andre and me this afternoon about that HRE. I will send it on to him as soon as I get it from you. I hadn't seen your email because we had just come out of a long meeting.

I am sorry to hear about Mr. Garrison's experience and am glad that he is now in touch with you. I don't have a record of Mr. Garrison owning the property you mention. However, I see GARRISON, WILLIAM E JR GARRISON, COLLEEN B owning and having a mailing address at 5820 Fayetteville Road, which is close by. The property you mention was purchased in 2005 and under our Type and Use code it says WAREHSE. Air photos look more industrial than residential on that property. I looked in our system and did not see a record of us sampling his well. I have copied Greg Bright on this message (Greg will be back in the office on Monday) in case he has a personal recollection.

As you would expect, there's a community well at the church on the property immediately north of the one we have listed for Mr. Garrison. It says in our system that it is behind the church next to the fence. I also see one as shown on the property with the track and the location description is: "WEST END OF TRACK".

The closest well that I can see that we sampled was 5854 Fayetteville Rd, sampled in 2006, which had 2-Butanone and THF. If you would like to see those results, I can walk you through how to access them in iMaps.

I hope this is of some help. Thank you for letting us know, and keeping us in the loop on this.
Caroline

Hydrogeologist, Groundwater Protection and Wells Program
Wake County Department of Environmental Services
PO Box 550
Raleigh NC 27602
office: 919-856-7469
cell: 919-710-7440

Caroline.Loop@wakegov.com

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From: "murphy, sue c" <sue.murphy@ncdenr.gov>
To: "Caroline.Loop@wakegov.com" <Caroline.Loop@wakegov.com>,
Date: 12/04/2014 02:18 PM
Subject: RE: Notification of groundwater sampling results and contaminated well

Hey Caroline – quick question since you are near the top of the email activity list:

We have a residential well located at 1917 Garner Glen Drive, Raleigh, owned and occupied for many years by William Garrison, age

80. It is contaminated by TCE. In recent correspondence with Mr. Garrison he states that many years ago the well was tested and results showed TCE, but they were told by the individual that took the sample that TCE would evaporate to the air very quickly (!) We have almost nothing in the file, and as the property is in an area on wells, and near the Wake County Speedway and an old service station, we are trying to reach out to other agencies that may have any records of wells or sampling in the area.

Got anything?

Your help is most appreciated

Cheers

Sue

From: Caroline.Loop@wakegov.com [mailto:Caroline.Loop@wakegov.com]

Sent: Wednesday, December 03, 2014 5:07 PM

To: murphy, sue c

Subject: Re: Notification of groundwater sampling results and contaminated well

Thank you Sue, that is helpful to know. I assume that someone at the County will be copied on any HREs issued for the samples containing PCE in due course.

Regards,
Caroline

Caroline Loop, Ph.D., P.G.
Hydrogeologist, Groundwater Protection and Wells Program
Wake County Department of Environmental Services
PO Box 550
Raleigh NC 27602
office: 919-856-7469
cell: 919-710-7440

Caroline.Loop@wakegov.com

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From: "murphy, sue c" <sue.murphy@ncdenr.gov>
To: "Caroline.Loop@wakegov.com" <Caroline.Loop@wakegov.com>, "Joseph.Threadcraft@wakegov.com" <Joseph.Threadcraft@wakegov.com>, "sue.ledford@co.wake.nc.us" <sue.ledford@co.wake.nc.us>, "gbright@wakegov.com" <gbright@wakegov.com>, Cc: "Walch, John" <john.walch@ncdenr.gov>, "Jesneck, Charlotte" <charlotte.jesneck@ncdenr.gov>
Date: 12/03/2014 11:34 AM
Subject: Notification of groundwater sampling results and contaminated well

Attached please find recent NCDENR Inactive Hazardous Sites Branch sample data for wells in Wake County. Samples were analyzed for VOCs. Wells sampled (and detects of note) were located at:

IHSB Site: Poole Road PCE (NONCD0002943)

7301 Poole Road (Paul's Cash Grocery, also has address of 2429 Hodge Road) – PCE 9 ug/l, exceeds MCL

2437 Hodge Road – no detects

2521 Hodge Road – no detects

2513 Hodge Road – no detects

7317 Poole Road – no detects

7325 Poole Road – no detects

IHSB Site: Trawick Rd/Bond St (NCD000410936):

3612 Colewood – low level chloroform
3616 Cove Drive – PCE 1.2 ug/l
3212 Timberlake Road – no detects

If you have any questions, please call me at 919-707-8354

Sue Murphy
Engineer
Inactive Hazardous Sites Branch
Division of Waste Management
Email: sue.murphy@ncdenr.gov

phone and fax number: (919) 707-8354

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Mailing address: 1646 Mail Service Center, Raleigh, NC 27699



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ENVIRONMENT AND NATURAL RESOURCES

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[attachment "Nov 2014 addl 3 residences.pdf" deleted by Caroline M Loop/Wake County] [attachment "Nov 2014 sample results.pdf" deleted by Caroline M Loop/Wake County]

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murphy, sue c

From: murphy, sue c
Sent: Wednesday, December 03, 2014 11:34 AM
To: Caroline.Loop@wakegov.com; 'Joseph.Threadcraft@wakegov.com'; 'sue.ledford@co.wake.nc.us'; gbright@wakegov.com
Cc: Walch, John (john.walch@ncdenr.gov); Jesneck, Charlotte
Subject: Notification of groundwater sampling results and contaminated well
Attachments: Nov 2014 addl 3 residences.pdf; Nov 2014 sample results.pdf

Attached please find recent NCDENR Inactive Hazardous Sites Branch sample data for wells in Wake County. Samples were analyzed for VOCs. Wells sampled (and detects of note) were located at:

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7317 Poole Road – no detects
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IHSB Site: Trawick Rd/Bond St (NCD000410936):

3612 Colewood – low level chloroform
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murphy, sue c

From: murphy, sue c
Sent: Tuesday, December 02, 2014 3:37 PM
To: bogeyfree48@gmail.com; Michael Brown (mjbrownpg@terraquestpc.com)
Subject: FW: HRE Request Poole Rd
Attachments: Poole Rd PCE.docx

Importance: High

Attached is the Health Risk Evaluation (HRE) for the well at Paul's Cash Grocery. It uses EPA risk calculations to determine if the contaminants in the water present a known health concern when used an average amount by an average human.

A little extra info on what was found in the well:

Chloroform is a very common well contaminant, it can linger (a long time) from a well disinfection or could be a lab-introduced contaminant. The store well has a very low level of chloroform, and the state standard for it is pretty high, so it isn't much of a concern here.

Methyl Tertiary Butyl Ether (MTBE) is a common gasoline additive, and is mobile in water and soils, so it tends to 'halo' around petroleum/gas spills/leaks.

Tetrachloroethene (PCE) is a solvent, used for dry cleaning or degreasing, is mobile in water, tends to sink, and has an established link to cancer and other health effects. The state standard is 5, the store well has a concentration of 9.

We will call to schedule a resample just to confirm the findings. Any questions in the meantime, please call 919-707-8354 for Sue, 919-707-8353 for Vince. Or if you want to push the up button and talk to my boss John 919-707-8356.

This will get mailed in the morning.

Cheers

Sue

Sue Murphy

Engineer

Inactive Hazardous Sites Branch

Division of Waste Management

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murphy, sue c

From: murphy, sue c
Sent: Tuesday, December 02, 2014 2:59 PM
To: Johnston, Scott
Cc: Walch, John (john.walch@ncdenr.gov)
Subject: Paul's Cash grocery lab results
Attachments: Nov 2014 sample results.pdf; lab report of results 10-2013.pdf

Hi Scott -

I received the results of IHSB's November sampling. Cutting to the chase, PW-1 (the supply well for the store) showed PCE 9 ug/l, MTBE at 0.69 ug/l and chloroform at 0.50 ug/l. The HRE indicates that the water is acceptable for washing and showering but not consumption. The owner has been informed, and his consultant also called us.

I will be mailing the results out to the residents tomorrow.

For your information and just to make certain you have all the information I have, I have attached both sample events IHSB has performed.

Nov 2014 Lab Report: The wells are named following the convention shown on the Terraquest site layout map – except for the sample cleverly labeled 8513 Hodge.

Oct 2013 Lab Report: The results labeled 'Wiggins' are for a different site, otherwise, the street address for the wells is used.

IHSB will most likely conduct some type of investigation there to attempt to determine source, or at least try to rule out whether the PCE is coming from the west, across Hodge/Poole Rd. If UST has any plans for any work out there, would you please let me know?

Any questions, please give me a call 919-707-8354

Thanks!

Sue

Sue Murphy

Engineer

Inactive Hazardous Sites Branch

Division of Waste Management

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murphy, sue c

From: murphy, sue c
Sent: Tuesday, December 02, 2014 2:52 PM
To: 'mjbrownpg@terraquestpc.com'
Subject: Paul's Cash grocery lab results
Attachments: Nov 2014 sample results.pdf; lab report of results 10-2013.pdf

Hi Mike – Vince just hung up the phone with you, he said you were asking for these.

Nov 2014 Lab Report: The wells are named following the convention shown on the Terraquest site layout map – except for the sample cleverly labeled 8513 Hodge.

PW-1 showed PCE 9 ug/l, MTBE at 0.69 ug/l and chloroform at 0.50 ug/l. The HRE indicates that the water is acceptable for washing and showering but not consumption.

Oct 2013 Lab Report: The results labeled 'Wiggins' are for a different site, otherwise, the street address for the wells is used.

I will be mailing the results out to the residents tomorrow. If you would like to be copied on the results for the grocery, let me know. 919-707-8354

Thanks!

Sue

Sue Murphy

Engineer
Inactive Hazardous Sites Branch
Division of Waste Management
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