

Caldwell, Dwayne

From: RISCH, JIM
Sent: Friday, April 5, 2024 2:49 PM
To: Caldwell, Dwayne
Cc: Metcalfe, Jacqueline (Fran); BUCKEL, STEVE
Subject: RE: RM 111805 N28 Spill

Ok, sounds good.

From: Caldwell, Dwayne <DCaldwel@idem.IN.gov>
Sent: Friday, April 5, 2024 2:45 PM
To: RISCH, JIM <JRISCH@idem.IN.gov>
Cc: Metcalfe, Jacqueline (Fran) <FMETCALF@idem.IN.gov>; CHESTERSON, DANIEL <DCHESTER@idem.IN.gov>; BUCKEL, STEVE <SBUCKEL@idem.IN.gov>
Subject: Re: RM 111805 N28 Spill

Hi Jim,

Let's work on this next week since it will take a bit to see any impact. That will give me a chance to make contact with the LHD and then we could work up a purposed sampling plan (how far away from the source needs tested and such.) that is a good idea to test again in a couple months.

I really appreciate the help!

Take care,

Dwayne

Dwayne Caldwell OSC
IDEM Emergency Response
Sent from my iPhone

On Apr 5, 2024, at 2:35 PM, RISCH, JIM <JRISCH@idem.in.gov> wrote:

<image002.gif>
Dwayne,

Glad you asked about this release. 4,000 gal of liquid fertilizer in shallow groundwater area certainly caught my attention.

It sounds like just shallow ditches near the release so immediate impacts to surface water may not be a concern, especially with dilution from the rain. Impacts to the groundwater are an unknown, but I think will take at least a week or two before measurable impact happens, if it happens. As indicated, it may be difficult to measure impact in farm area.

I am available until 5:30 remotely today. Call or Teams message me if the locals are concerned and you think testing water will calm them. Will see what I can set up with lab on a Friday from my remote location.

Otherwise, I would wait until next week, after the eclipse, and maybe work with county health to sample wells for nitrates. In farm area, they should be doing that regularly anyway – my opinion. Then based on initial results, check again in a month or two to see if impact.

That's my two cents. Happy Friday!

Jim Risch

Senior Environmental Chemist 1 | Chemistry Services
Science Services Branch | Office of Land Quality
Indiana Department of Environmental Management

jrisch@idem.in.gov, 317-233-6541

From: Metcalfe, Jacqueline (Fran) <FMETCALF@idem.IN.gov>
Sent: Friday, April 5, 2024 12:52 PM
To: Caldwell, Dwayne <DCaldwel@idem.IN.gov>; CHESTERSON, DANIEL <DCHESTER@idem.IN.gov>; RISCH, JIM <JRISCH@idem.IN.gov>
Cc: Metcalfe, Jacqueline (Fran) <FMETCALF@idem.IN.gov>
Subject: RE: RM 111805 N28 Spill

Hi Dwayne,

Hope you have had a quiet week.

Jim and I have given this some thought and kicked it around. Things we were kicking around included well depths, surface water bodies, issues with sample holding times, etc. He is going to call you a little later today. I'm about done for the day and am out until Tuesday but as always if you need to give me a call, please do so.

Have a great weekend!

Fran

<image003.png>

J. Fran Metcalfe

Science Services Branch
Technical Environmental Specialist E7 | QAO
Office of Land Quality
Indiana Department of Environmental Management

<image001.png>

(317) 232-7166 | cell (317) 443-3643

fmetcalf@idem.in.gov

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<image007.png>

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<image009.png>

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<image010.png>

From: Caldwell, Dwayne <DCaldwel@idem.IN.gov>
Sent: Friday, April 5, 2024 9:24 AM
To: Metcalfe, Jacqueline (Fran) <FMETCALF@idem.IN.gov>; CHESTERSON, DANIEL <DCHESTER@idem.IN.gov>; RISCH, JIM <JRISCH@idem.IN.gov>
Subject: RM 111805 N28 Spill

Good Morning!

Hope you all had a great week.

Does IDEM have anyone who can help me figure out if well testing is needed near a liquid 28 fertilizer spill? An AST released ~4000 gallons onto a packed gravel parking area. After the release there were three days of rain in the area. I did detect A/N in a ditch northeast of the property with a LaMotte kit.

The soil in the location per the soil maps is a Blount Silt Loan which is somewhat poorly drained and has a water table at 6-12”

There are 7 wells shown within a quarter mile of the site (map attached.) There are also a couple more Amish houses that do not show wells on GIS but I assume they have them.

One complication is this is an agricultural area, and we don't have any baseline water samples that I know of to use as a pre-incident comparison.

If anyone can point me in a direction I would appreciate the help.

Have a great weekend,

<image011.jpg>

Dwayne S. Caldwell

On Scene Coordinator Emergency Response
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Indiana Department of Environmental Management

*Celebrating Thirty-Five Years of
Protecting Hoosiers and Our Environment*

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