



HAMILTON COUNTY WELLHEAD PROTECTION LOCAL PLANNING TEAM MINUTES



Conference Room 1A – Hamilton County Judicial Building

October 4, 2016

The meeting was called to order Tuesday October 4, 2016 at 2:06 PM.

Those present were as follows: Mr. Kenton C. Ward, Hamilton County Surveyor; Mr. John Havard, Citizens Energy Group; Ms. Jamie Foreman, City of Carmel; Mr. Gary Duncan, Hamilton County Surveyor's Office; Mr. Jacob Barker, Wessler Engineering; Ms. Erin Rowe, Hamilton County Emergency Management; Ms. Morgan Bennett, Hamilton County Health Department; and Anthony Isenberger, City of Carmel.

Minutes of July 12, 2016:

There were no changes made. Foreman made the motion to approve the Minutes of July 12, 2016, seconded by Havard and approved.

Community Updates:

Carmel – Foreman stated we met with a contractor yesterday to look at providing delineation for our five year updates for our Wellhead Protection. We hope to get more out of it than just the delineation, more of a sustainability report as far as the shared aquifer. It's just discussions at this point as far as where we're going to go with that. We're proposing to develop one of the existing wells that already has a casing in the ground on south of 106th Street in Carmel for the 2017 calendar year. That would be more source water for our groundwater under the influence.

Sheridan – Barker stated that he had no updates for Sheridan.

Indianapolis/Harbour Water – Havard stated we did a Wellhead Protection Plan Phase 2 for the River Road Wellfield. We have six wells in that wellfield. We received IDEM's approval last week. I'll bring a copy of that plan to Kent (Ward) and Morgan (Bennett).

Deep Rock Tunnel – Harvard stated he didn't get anyone lined up to talk about the Deep Rock Tunnel, but brought a place mat that describes the system. It gives a nice schematic of what the profile of the system looks like and also land view of where all the rock tunnels are going. It also gives FAQ's and statistics about all of the different tunnels, how long they are and different sewer connections we're making to it. The bottom of the place mat gives the schedule of where we are installing all of this. Presently we have the deep rock tunnel connector which goes from the Southport Wastewater Treatment Plant on the south side of Indianapolis drilling all the way up to the White River and the start of Pleasant Run and also Eagle Creek. That tunnel has been drilled completely and now they're going in with a concrete liner. All these tunnels are drilled through bedrock approximately 250 feet below the ground surface, an 18 foot diameter tunnel in general, and then they put in about a foot liner of concrete. That's what we're presently doing for the deep rock tunnel connector. The concrete is just as a supplementary measure to keep groundwater infiltration from going in the tunnel. Apparently the deep rock tunnels that were drilled in Milwaukee they didn't put a liner and drilled just through the limestone and as time went by they noticed more and more infiltration. We also drilled an Eagle Creek deep tunnel and we'll be lining that as well. The next one would be the White River tunnel and the Pogue Run tunnel. We haven't started those, but we are proceeding with shaft construction. We are procuring real estate for the infrastructure. The last tunnel we'll do is the Pleasant Run tunnel. Right now it's probably 58% complete. Everything is on schedule. This will eliminate over 95% of the combined sewer overflows that presently happen into the different streams in Indianapolis and White River. It's all being done in

accordance with a set decree with EPA. By 2025 all these tunnels should be complete and in operation. Meanwhile we've increased the capacity of the wastewater treatment plants to nearly 600,000,000 gallons per day.

Bennett asked if Citizens plans to build any more wastewater treatment plants?

Havard stated no, all we have on the books right now are those two plants. We have a very large collection system and lots of lift stations to capture all the sewer discharges in Marion County, plus some other smaller towns outside of Marion County that discharge to our system.

Foreman asked when do you feel you're at capacity? You said the Wastewater Treatment 600,000,000 gallon treatment per day.

Havard stated peak flow. Normally we're running 225,000,000 gallons per day. The tunnel system will provide storage when we have a big storm event. We also have some lagoons or basins at the wastewater treatment plant for storm water storage. Even though the plants can handle 600,000,000 gallons per day we'll have more than that in a single day from a storm. Some people have asked me if the tunnels would fill up with debris and sludge and so forth, but they slope them such that when you turn these pumps on there will be a self-cleaning system with the velocity of the water.

Ward asked if the approach channel as it comes into the drop shaft, is that angled so that it causes a swirl?

Havard stated I think it is. I heard somebody describe that once because if it was a perpendicular flow it would cause problems getting it to go down. Some of those diversion structures will be collecting a lot of water. Some of the present combined sewer overflows are well over a million gallons per day going into streams. The approach channel is designed to allow for lower stress, but also so it will swirl on down the shaft.

Ward stated you have a deaeration chamber, how does that function?

Havard stated he believes air can be a real problem because if you capture air in a tunnel and then the tunnel fills up downstream or upstream you could have a compression and as you come across other shafts you could get bursts of air and manhole lids burst off.

Ward asked if the access for the future is it through the vent shafts or drop shafts?

Havard stated one thing that's not shown is our access shaft. Several of them are built for each of the different tile segments. I looked at the Pleasant Run Tunnel yesterday and there is one access shaft right in the middle of the tunnel segment. The purpose of that is so you can get down to your tunnel boring machine and also be able to pull rock out of that access shaft. I think that access shaft will be used for later maintenance.

Discussion:

Gas Station – Havard stated Andy Wert isn't here, but they were talking about installing a gasoline service station up in our Harbour Wellhead Protection Area. I didn't know if you knew the status of that project?

Ward stated I don't.

Foreman asked Havard if he would be able to send her the pumping data for the wells in that area and well locations so we can incorporate that as neighboring pump to our delineation as well?

Havard stated yes, do you want Westfield as well? We have River Road and that abuts the Westfield area. We had to do two separate plans.

Foreman stated yes, both of them would be very relevant.

2017 Meeting Dates – Ward asked if the Committee wanted to stay with our regular schedule?

Foreman stated she has them as January 3, 2017, April 4, 2017, July 11, 2017 and October 3, 2017.

Ward asked if that was okay with everyone?

LEPC Exercise – Havard asked if the exercise was this month?

Rowe stated yes, it's next Wednesday, Thursday and Friday. It's a HazMat situation. We're doing it at the Training Center, its full scale. We're going to do two evolutions each day.

Havard asked if they repeat the exercise each day with different groups?

Rowe stated yes. We try to get as many first responders in as we can.

Ward asked if Rowe is still looking for observers?

Rowe stated yes, you can email me or give me your email address and I'll get you the information if you're interested. Next year will just be a tabletop.

Havard asked what the chemical that is going to be simulated to be removed?

Rowe stated that we're using the island at the training center and we've never used that before so my folks and I have gotten out there. It's going to be challenging, it's steep to get up there, we had to clear off this entire area and we wore Tyvek suits because of the poison ivy; a lot of hard work went into this one. They're actually going to do a simulation of a meth lab. We're very fortunate that IDNR wanted to be involved and State Police and we have canine units involved, it's just grown. It will be very interesting. I'm very excited to see how it turns out. I did go to Marion County's full scale LEPC exercise last week and got to see how they did things.

Committee Reports:

Contingency Plan Review & Update – Ward asked if there is anything on the plans?

Rowe stated I'm reviewing them now.

Havard asked if Rowe wanted Citizens Wellhead Protection Plan for Hamilton County?

Rowe stated that would be great. I've got the contingency plan and I've got Cicero.

Education/Funding – Ward asked if there was anything on Education & Funding?

Bennett stated no, nothing to report, but if someone thinks of something that we could do that doesn't require funding. There are so many separate entities doing different things.

Next Meeting Date:

The next meeting date is Tuesday, January 10, 2017 at 2:00 p.m. (January 3, 2017 meeting date changed to January 10, 2017 due to the January 1st holiday weekend)

The meeting was adjourned.

Kenton C. Ward, CFM
Hamilton County Surveyor

ATTEST: _____
Executive Secretary