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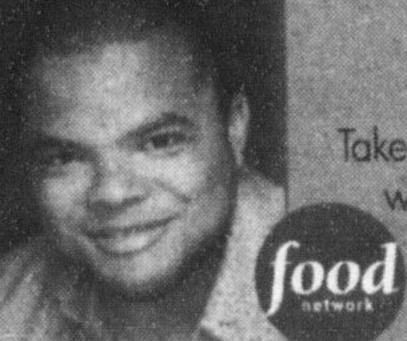
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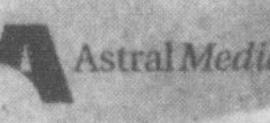
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Pump tests said to have no impact beyond quarry site

By Dianne Cornish SPECIAL TO THE CHAMPION

A series of pump tests done this summer at the proposed St. Marys quarry in northeastern Flamborough showed no effect on groundwater levels beyond 500 metres of the single pumping well used to simulate the impacts that the quarry would have on the water in the area, a hydrogeologist said Tuesday.

Fluctuating groundwater levels did occur in and around the test well during the pumping, but they didn't extend to monitoring wells 500 metres or more away, said Stephen Hollingshead of Gartner Lee Ltd., an engineering firm that headed up the testing from July 21 to 29.

Groundwater levels were affected on the quarry site, but that impact didn't extend to neighbouring wells, he said:

Throughout the testing, the constant flow rate at the test well was 10 litres of water per second. Hollingshead said that's all that was needed to confirm what the bedrock is like on the site and how the groundwater moves through it.

But Graham Flint, chair of the anti-quarry group FORCE (Friends of Rural Communities and the Environment), said the test results are far from representative of the impacts that a full-scale quarry will have on the source water in the area.

At the pumping rate used during the testing, the drawdown, or the level that the water fell to the pumping well hole, was just 14 metres, a long way from the proposed quarry's full depth of 40 metres, he said this week.

Flint maintained that the test, allowed under a temporary Permit to Take Water (PTTW) granted to St. Marys by the Ministry of the Environment (MOE), has been scaled back so much to ensure groundwater safety, that its results are meaningless.

But Hollingshead countered that huge volumes of water don't have to be extracted to get the data needed to show how groundwater will be affected by a quarry operation. "We have tons of capacity," he said, alluding to the 50 litres of water per second granted in the permit. "If we don't need it, we won't use

The hydrogeologist also disputed Flint's claims that the test results were skewed by the record rainfalls that fell during some of the days of testing. "We were able to separate rainfall issues from pumping," he insisted, pointing to minor elevations on a graph that showed groundwater levels rising only a little as a result of heavy rains.

Flint noted that neighbouring private wells showed increasing water levels throughout the pumping test rather than decreasing levels as would be expected when water was being pumped out of the sys-

While Hollingshead said the test data offered "no surprises" in that it reinforces what technical experts believed about the bedrock aquifer, namely that it acts uniformly as a single aquifer to the amabel formation, Flint said he saw evidence to the contrary at some of the technical meetings about increased levels of surface water and deep

well aquifers in monitoring wells after heavy rainfalls. From discussions he overheard, he said experts were surprised about the vertical connectivity of the acquifer, which caused groundwater to come to the sur-

Jim Perrone, a water resource Stantec from engineer Consulting, which monitored surface water on the site during the testing, said there was "a small influence" on surface water levels during the testing. Levels were "up a bit" in seeps, or areas where groundwater comes to the surface, he said. But he didn't detect any influence from the pumping tests on the water levels in Mountsberg Creek and its tributaries.

Thirteen monitoring stations were set up on the creek and two of its tributaries during the tests to monitor the relationship between groundwater and surface water.

John Moroz, general manager and vice-president of St. Marys CBM, said efforts by FORCE to halt the pump tests by seeking leave to appeal the PTTW were sidelined last week Environmental when the Review Tribunal (ERT) ruled it has no jurisdiction to rule on the matter. The permit was issued for 357 days, just eight days short of a year. Permits of less than a year cannot be appealed but FORCE questioned that ruling contending that as the testing is being done over three rounds, with reports to the MOE being studied after each round before the next proceeds, it could well extend beyond a year.

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