From: "Anderson-Vincent,Arlene,STANWOOD,NWNA SC MW Springs" <Arlene.Anderson-Vincent@waters.nestle.com>
Subject: Nestle's 11-17-2014 Slide Presentation
Date: Tue, November 18, 2014 8:32 am
To: "cityclerk@evart.org" <cityclerk@evart.org>
Cc: "Vallab Buck (buck.vallad@evart.org)" <buck.vallad@evart.org>,"Zackary G. Szakacs (zackary.szakacs@evart.org)" <zackary.szakacs@evart.org>

Good morning Seraphim,

Per your request, attached is the deck I reviewed last night at the Evart City Council meeting.

Regards,

Arlene

Arlene Anderson-Vincent
Senior Natural Resource Specialist
Nestle Waters North America
Ice Mountain
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Stanwood, MI 49346
Office: (231) 823-8451
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Email: **arlene.anderson-vincent@waters.nestle.com**

Attachments:
untitled-[1.2]
Size: 3.8 k
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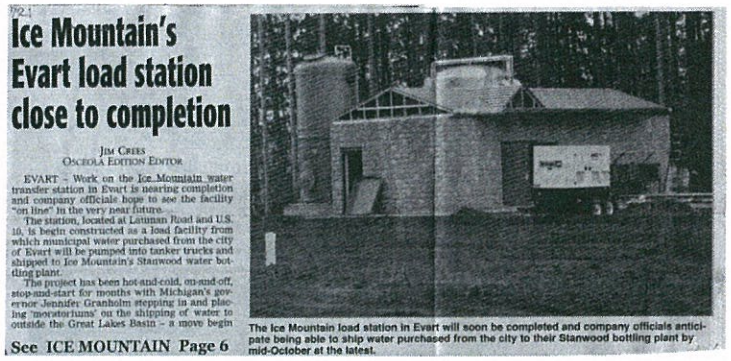
City of Evart
Well 5 Replacement
History

- In 2005, NWNA entered into a purchase water agreement with the City of Evart Michigan.
- NWNA purchases water exclusively from (2) City owned wells, Well 5 and Well 7.
- Spring water is pumped from Wells 5 and 7, directly to the Evart Load Station. The water is then tankered to the Mecosta Factory located approximately 40 miles away.
- Well 5 is permitted at 500gpm and was constructed in 1959 (Black Carbon Steel).
- Well 7 is permitted at 300 gpm and was constructed in 1975 (Black Carbon Steel).
- NWNA purchases an annual average of 145GPM (varies per year, per month).



Ice Mountain's Evart load station close to completion

JIM CREES
OSCEOLA EDITION EDITOR

EVART – Work on the Ice Mountain water transfer station in Evart is nearing completion and company officials hope to see the facility "on line" in the very near future.

The station, located at Lisman Road and U.S. 10, is begin constructed as a load facility from which municipal water purchased from the city of Evart will be pumped into tanker trucks and shipped to Ice Mountain's Stanwood water bottling plant.

The project has been hot-and-cold, on-and-off, stop-and-start for months with Michigan's governor Jennifer Granholm stepping in and placing 'moratoriums' on the shipping of water to outside the Great Lakes Basin – a move begin

See ICE MOUNTAIN Page 6

The Ice Mountain load station in Evart will soon be completed and company officials anticipate being able to ship water purchased from the city to their Stanwood bottling plant by mid-October at the latest.

City of Evart
Well 5 Replacement
Justification

- Well 5 was constructed in 1959 of black steel casing and showed signs of degradation. A down hole video inspection of the well casing shows severe signs of degradation of the well casing (Figure 1 and 2).
- On average, wells constructed of black steel casing last approximately 30 years. Well 5 is currently 54 years old, almost twice its average life expectancy.
- Degradation of the casing can lead to water quality problems and complete failure of the casing will make this well inoperable until the a replacement well can be permitted and constructed (~ 2months).
- NWNA is partnership with COE decided to replace Well 5.

Figure 1 – Degradation of casing

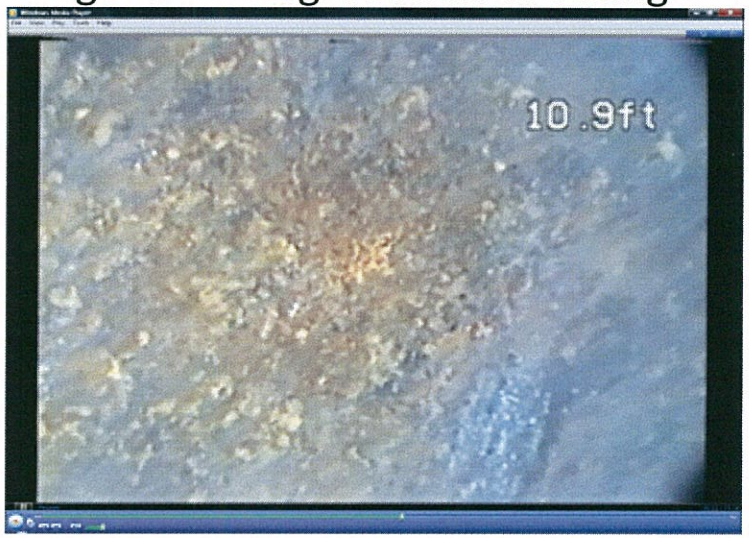
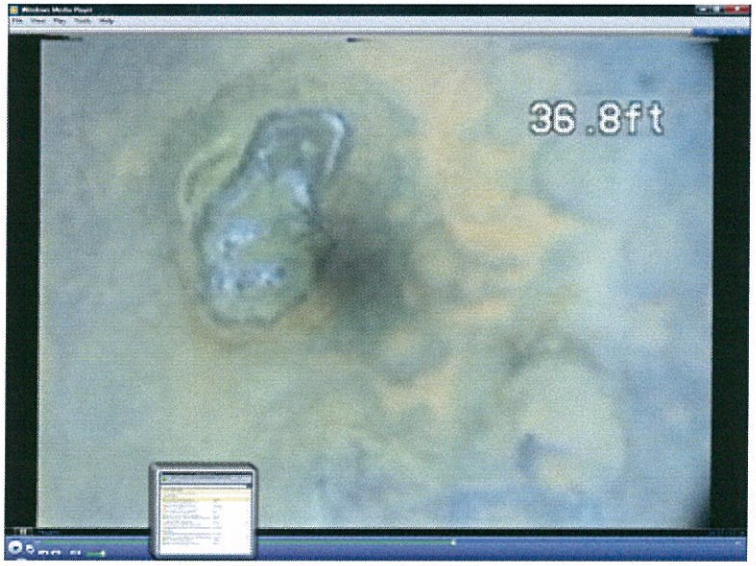


Figure 2 – Corroded pit in casing



City of Evart
Well 5 Replacement
Time Line

July 2013 – Health Department, MDEQ, City of Evart, NWNA site meeting to discuss project

Water Withdrawal Assessment – no obligation

Type II non-Community permitting – Permit to construct, Permit to convert

Standard of Identity – FDA Spring water requirement

August 2013– NWNA Approved Project

Oct 1, 2013 – Discuss project with City of Evart

Week of October 14th – tree clearing, area leveling

October 25, 2014– Received permit to drill test borings from CMHD

November 25, 2014 – Advance sonic borings, stratigraphic information, sieve analysis

Nov-Dec 2014 - Draft Permit to Construct Document and design Production Well

January 3, 2014 – Received permit to drill test well from CMHD

January 2014 – Drill/Construct/Test Production Well

February 2014 – NWNA decides to put project on hold until October 2014

October 2014 – Re-start of project; Old well demo, bldg move, site construction

November 2014 – Completion of construction, Health Department Inspection; FP testing

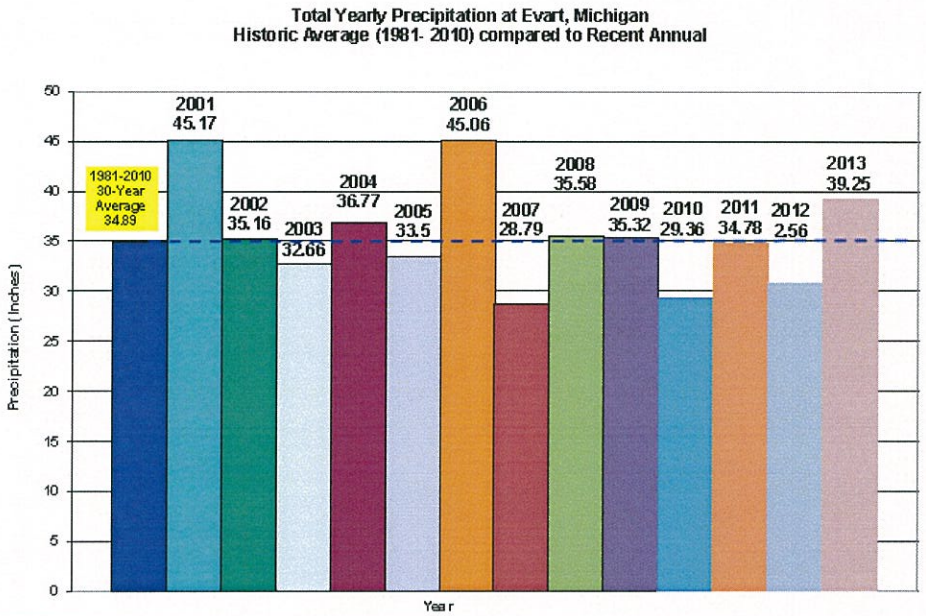
December 2014/January 2015 - New well on-line, abandoned old Well 5

12/15/2014

City of Evart
Well 5 Replacement

City of Evart
Long-Term Monitoring

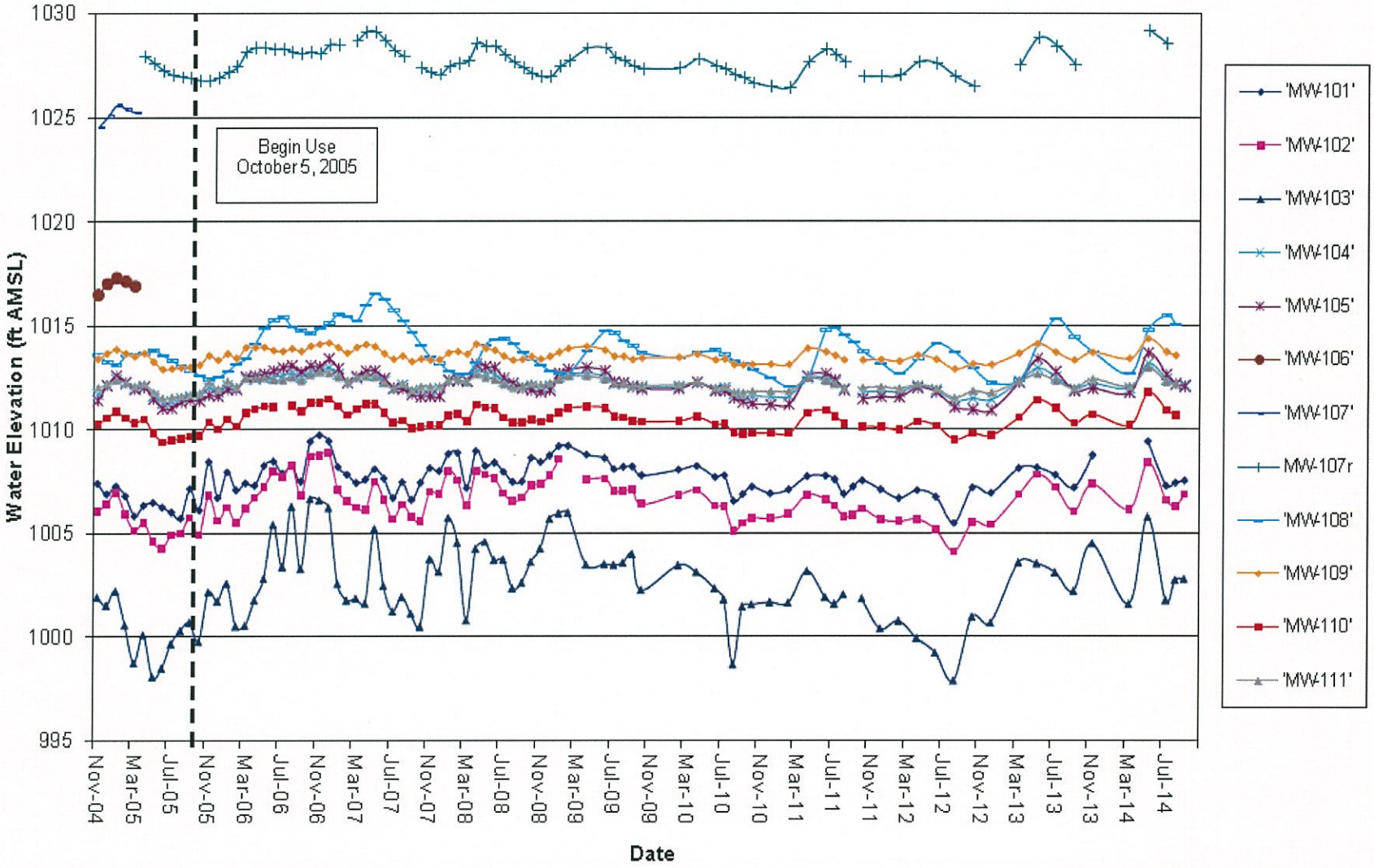
City of Evart
Long-Term Monitoring
Precipitation



	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Average 1981-2010
JAN	1.64	2.07	4.52	3.18							1.88
FEB	0.93	1.32	2.21	1.73							1.63
MAR	2.37	3.55	0.87	1.54							2.16
APR	7.14	1.87	7.06	6.93							3.00
MAY	1.81	5.27	5.25	3.14							3.46
JUN	5.73	2.08	2.80	4.11							3.59
JUL	0.98	2.59	2.71	3.21							3.18
AUG	3.44	2.48	2.53	2.58							3.89
SEP	3.46	0.00	1.31	1.28							4.09
OCT	3.26	4.51	4.74								3.39
NOV	2.85	0.47	3.26								2.65
DEC	1.17	4.55	1.99								1.99
ANNUAL Total	34.78	30.76	39.25	27.70							34.89
Year to Date Total	24.86	21.23	28.19	27.70							22.78
Annual - 30-year Average	-0.11	-4.13	4.36								
Year to Date - 30-year Average**	2.08	-1.55	5.41	4.92							

September 2012 data is from McBain Michigan State Extention Enviro-Weather
** The 30-Year Average Year to Date total is through the end of August since the monitoring was conducted before the 15th
Data is through the September 12, 2014
Data provided by the Evart Wastewater Treatment Plant

City of Evart
Long-Term Monitoring
Groundwater Levels



City of Evart
Long-Term Monitoring
Ecological Monitoring

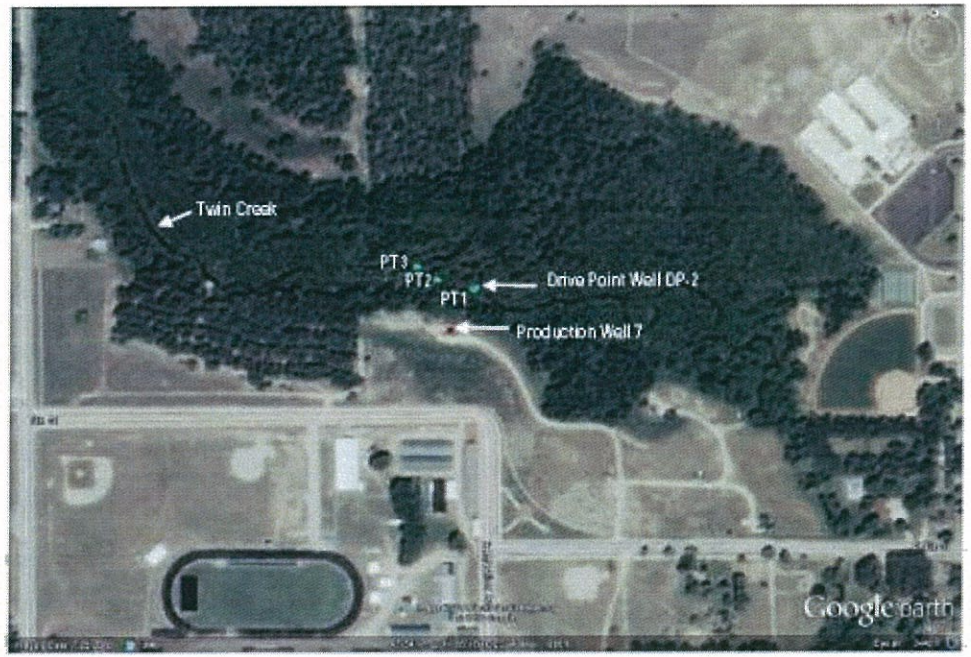


Figure 2. Wetland qualitative vegetation monitoring and photo point (PT) locations.

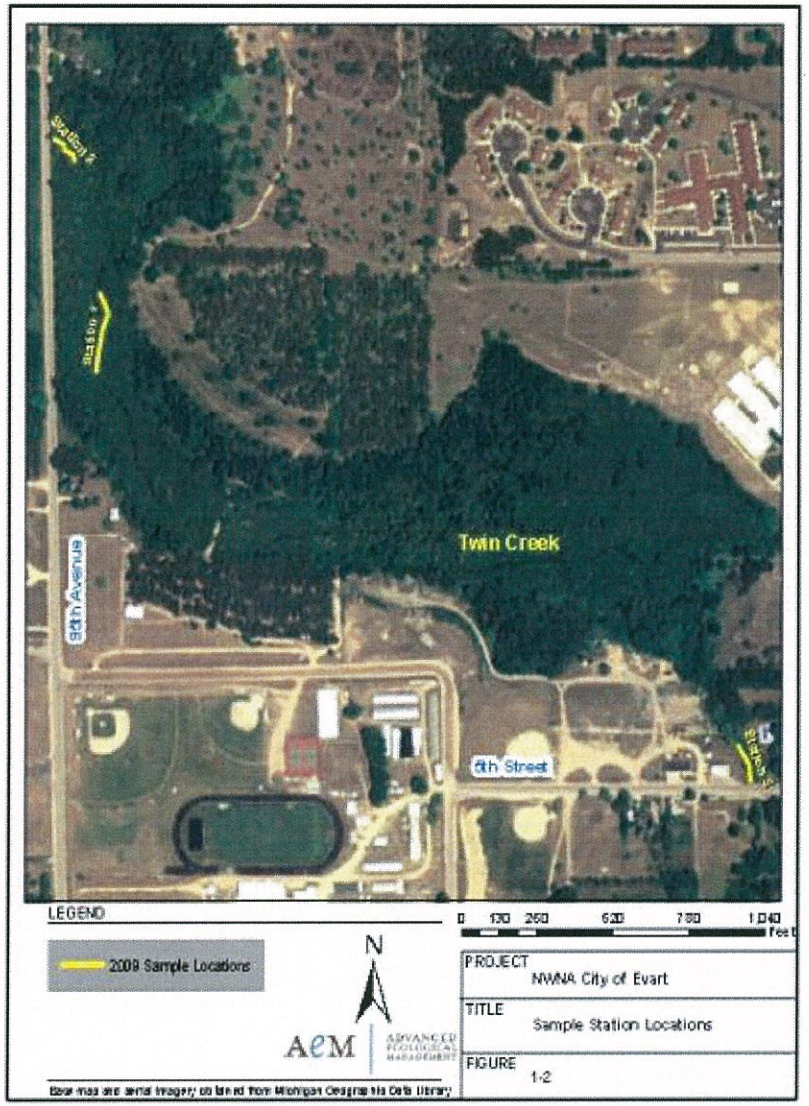


Figure 1-2. Station Locations in Twin Creek, Osceola County, MI