

Extended WTP Test Run 7/8 - 8/2

7/14/13

1030 - 11AM F.I.N.Y WTP - Test run of

WTPC new gey good 5.16 - 17 Mgd

and shift covered then both

RIVER 10-25 NTU.
STATION filtering yesterday
NTU
Applied

Running 5 Filters

Running 2 MGD LS

paying 17 Based on River load

if River was 1' higher could get 20

11AM draw down

How CAN to monitor & over with
for River for costs for 2-part interm
op. Think costs will be too high

→ BY FALL

7/8

WTP RUN

8/3

7/15 - 7/17

start softening

week of 7/22 } for
- 7/29 } cost

Ramp back down to 12 when softening

7/15 WTP
test run start
& draw down

Flint WTP Meeting 8/27/13

MDEQ Regs to WTP op.

2 Phases - Get WTP ready for op.
via Flint River water + 11 KWA
over
2 1/2 - 3 yrs

WTR Mtg
8/27/13

Phase I - what to do now - heading for Flint
- short design life (if not used for KWA)
Phase II - Lake water

Items

1 O₂/NO_x tank - no 30 day sto

Providing 1 tank for O₂/NO_x
headroom to 30-day sto

* 30 day supply 10 store goods
where is supplier? how goods? 20-30 days
only 2 hrs RW + 11 KWA could look

* Could not maintain Ozone conc. for study
based on O₃ study, but ↓ Cl₂ demand
detected Ag₂SO₄, Post K₁ - 55%
2.0 mg/L O₃ 2.1 Log Ecm < 60%
get rid of Organics, ↓ THM

No Corp.

G. and/or C/P/ ~~etc~~

Ch. 1? In Os

Flint shall
get crypto
credit for

Long term PLAN - mid of Ch (AR ~~etc~~ ~~etc~~)
& before DORT

Short-term PLAN to

if soft Cy credit & not
need DORT for WTL op. → Flint like

→ Coag Fed Thoro 2 if we need
a new coag — pass. changes in Coag.
maybe some equip changes

Item 2

outdated SUBSTA. Obsolete — needs repl. } see
& switched thru WTL 4 } ~~etc~~

* Concern on delays in CONSUMERS on getting
Project done in conj w/ process

two indep sources —

* NOEQ thought → 2 sep feeds did not help
2003 outage

cost of 2 sub sta.

ok vs. 1 sub / GEN.

we will look at
for more LAN
detail

Full GFL c/c load is; 2 3.6 MVA

Another 3 transformer will not run ^{entire} WTP
issue

1 Gen or 2 Gen for Avg. Day Costs
& 1 sub. station

Item 3 - out (assoc. w. Dart)

Item 5

PH1 Now 15 MGD H.S. w. VFO/Ventilation

PH2 2nd 15 MGD H.S.

Item 6 - Not doing

EXPANSION of
SCADA to all new PLCs
& repl. of old PLCs

Item 7 - SCADA

Item 8 - RAW WATER Conversion

- planning for hard block on incoming
line

Now could use

Sledge - Bray Road out

- old settling basins in WTP 1

* - rehab. Note process (temp. structure) - settling basins
or conveyor system

- Pump in / Pump out supernatant → low temp.

F. Hor 18-cycle milk if recycle
1 no decant water

Size

may be more cost-effective to build temp
presses & truck out

Gray Road - not option

- Primary road to form a better s/d for
disposal

pot UV units - Phase II with upgrade 2003
report

II or series?

- old filter tank station to
DOET - piping not installed
as we permitted

UV can be in II

o.f. crypto credit - validated units $\rightarrow$ #1 AMP's
Jorgensen

P. for
city

$\rightarrow$ All approved via EM/Trees & how this
works out - will this get approved?

Recal - Phase

+ the DOET out

Cost @ O₂/N₂ gas

Etc. item - energy concern VS partial level

and CL₂ out

Security - in

● sent et
values

P.S. improved - ok

Item 6 - out

SCADA -

Optim. Lime Sledge

M.D.H. Cl_2 in app to repl. & det factor

- Item 8 - send in Rpt. Connection

Move O&T (int. P.S. transfer sta) to Phase 2

(*) - Get refresh out for Review -

$$18 = 12.5 \text{ gpm}$$

$$D = \frac{3,000,000 \text{ gal}}{12,500 \text{ gpm}} = 240 \text{ min}$$

$$T_{10} = 0.25(240 \text{ min}) = 67.2 \text{ min}$$

$$C_T = 1.0(67.2 \text{ min}) = 67.2 \text{ min-mg/l}$$

$$C_T \text{ needed } 1/2 \text{ log } 10^6 (0.5 \text{ } \mu\text{H } 9.0 \text{ Cl } 1.0)$$

$$1.5 \text{ } 73 \text{ min-mg/l}$$

$$\text{Inactivation ratio; } 67.2 / \frac{146}{73} = 0.46$$

~~$$C_T \text{ needed } 1/2 \text{ log } 10^6 (0.5 \text{ } \mu\text{H } 9.0 \text{ Cl } 1.0)$$~~
~~$$1.5 \text{ } 73 \text{ min-mg/l}$$~~
~~$$67.2 / \frac{146}{73} = 0.46$$~~

$$0.551$$

$$\frac{33.2}{146} = 0.23$$

$$46 \text{ feet / Long}$$

$$\frac{67.2}{73} =$$

$$0.46$$

Tues 7/16

not softening yet

CO₂ supplier - can't deliver CO₂

+11 one of tech. to inspect tank

— trying to flush for insp. Post 10:00JONES shut down on BW
switched filter on SATused

Time in Monday

Filter (3, 4, 5, 6, 8)

↓
(7, 9, 10, 11, 12) ↓

Mon

Still no softening - still no CO₂ - Supplier as 1.
but no tech. to make inspection

TH/FR

Shut down BW all 10 Filters -

→ Now running (7, 10, 11, 12) → 10MBD RATENo rate controls set-up → Split treatment
have to Δ Cl₂ pointWill estab dual feeds - but need to add on WTP
(Already has dual feeds) Gravel
(on consumer's sales)

7/26 - started filtering @ 10 AM
Running very well

7/29 - Blanket was good thru SAT 7/27
Had to switch 5:10 PM → 2nd s/c & 5th s/c
had op. issue (temp)

actual good up / however 1st blanket - carry over
to filters - stopped filtering

— send carry over to outfall → NIDES
TONE

— hoping to be out of blanket today

Here B

(6/6) 643-2314
(5/7) 610

3587

~~AB~~

(787) 6537

(69) 696-0355

(7-15)

Saturday - 10AM

goal

R+N wall

Bulding Blasted ↑ PH

Go to

Flat
CSD

Done (focusing - need. continue

to cut for fall time, saying like am

needs to

- Reply down value on line 30 cut

- Any red size - still be used for

drilling line size depend for use

test run

- LAN report - 2 c/c for

Maria who spoke noted KWA/Indiana State

now sub staff

- Man transfer - in 2nd half

- Exercises being put for the drill

- Lat Fall is an up grounds

- PS to DART receive

- MS Sube - in VDO

- East Monitor Director (8/1) making all of hands

Cut call in cut took 8/2

13847

- Give all day training

- Then hands-on for next run - Prob next fall

LAN Report

Jim Pilling @
Rant

WTP improvements

Planning challenges

Residuals

Challenges to address
w/ MOEQ inputTown out Plan for City

technical

Financial Plan

Working documents of LAN Report
to work with us on ReportWARRON Green's Cell

MT

630-918-2499

week of 25th April

Get Date

Steve - M 3PM

W-OK

Jan - M AM

W-OK

PAT - M - OK

W-X

Prysby, Mike (DEQ)

From: Dan Potter <potter@twp.grand-blanc.mi.us>
Sent: Thursday, June 20, 2013 10:31 AM
To: Prysby, Mike (DEQ)
Subject: Grand Blanc Reliability Study

Mike,

We didn't address your comment no. 8 in the Reliability study, but there are only two interconnects between the City and Township at the locations noted in the report.
There is no interconnect in Kings Pointe.

Thanks,
Dan

WTP — short-term supply

^F
Ready for LWA

^F
OUTLINE for MOED
feedback