

**From:** Porter, Louis [Louis.Porter@vermont.gov]  
**Sent:** Thursday, September 22, 2016 2:12 PM  
**To:** Springer, Darren  
**Subject:** FW: CWD PAC Cost Estimates  
**Attachments:** PAC purchase cost summary.pdf; PAC rental cost summary.pdf

Darren,

Here is the cost estimate (roughly \$93k) for Champlain Water District to buy rather than lease the PAC system (just to reiterate – they are planning on installing for this year’s treatment either way). I told them I thought it was difficult for the Administration to put more than the \$50-60 k already committed towards this project. However, DEC is looking for some funding to help them through normal channels, and I would encourage us to think about perhaps kicking some more money in as well if that is possible (provided it does not jeopardize the \$18 k we “loaned” from F and W)!

Happy to talk more, of course.

Lp

---

**From:** Joseph Duncan [mailto:joe.duncan@champlainwater.org]  
**Sent:** Thursday, September 22, 2016 1:17 PM  
**To:** Redmond, Bryan <Bryan.Redmond@vermont.gov>; Porter, Louis <Louis.Porter@vermont.gov>  
**Cc:** James Fay <jim.fay@champlainwater.org>; Michael Barsotti <mike.barsotti@champlainwater.org>  
**Subject:** CWD PAC Cost Estimates

Bryan and Louis:

We did receive an update from Cabot-Norbit on the purchase option. Essentially the unit is \$99,500 to purchase and they would credit the one month rental fee of \$5,750 for a total purchase fee of \$93,750. The return freight fee would not apply if the unit is purchased.

Attached is a cost estimate for the purchase option. I have also attached the rental cost estimate for reference.

Please give me a call with any questions.

--

**Joseph J. Duncan, PE, F.NSPE**  
Director of Projects & Programs/Chief Engineer  
*Champlain Water District*  
*Dedicated to Quality Water and Service*

P | 802.864.7454

**C** | 802.233.6909

*First In The Nation ~ Excellence In Water Treatment, Partnership For Safe Water*

Estimated Cost to Purchase the Cabot PortaPAC® System  
Champlain Water District  
September 22, 2016

<b>Description</b>	<b>Estimated Cost</b>	<b>VTF&amp;W Share <sup>(2)</sup></b>	<b>CWD Share</b>
Engineering for Basis of Design	\$ 18,340	\$ 18,340	\$ -
Bench top pilot analysis	\$ 1,600	\$ 1,600	\$ -
Deliver PAC feed equipment	\$ 6,550	\$ 6,550	\$ -
Start up assistance	\$ 5,850	\$ 5,850	\$ -
One month's rental	\$ 5,750	\$ 5,750	\$ -
Equipment purchase	\$ 93,750	\$ 93,750	\$ -
PAC used (19 tons)	\$ 30,000	\$ -	\$ 30,000
Operation	\$ 2,170	\$ -	\$ 2,170
Set up by CWD staff	\$ 10,000	\$ -	\$ 10,000
Foundation	\$ 5,000	\$ 5,000	\$ -
Temporary shelter	\$ 2,000	\$ -	\$ 2,000
Feed water pipe, backflow preventer, valves, and connectors	\$ 15,000	\$ 15,000	\$ -
24" x 6" tapping sleeve and valve and hydrant (deleted not required)	\$ -	\$ -	\$ -
Electrical service	\$ 2,000	\$ -	\$ 2,000
Instrumentation	\$ 500	\$ -	\$ 500
Compressed air line	\$ 550	\$ -	\$ 550
Contingencies	\$ 10,000	\$ 10,000	\$ -
<b>Total</b>	<b>\$ 209,060</b>	<b>\$ 161,840</b>	<b>\$ 47,220</b>

Notes:

1. Based upon costs in Table 1 of Basis of Design report prepared by DG
2. Potential for additional funding through DWGWPD

Estimated Cost to Rent the Cabot PortaPAC® System  
Champlain Water District  
September 2, 2016

<b>Description</b>	<b>Estimated Cost</b>	<b>VTF&amp;W Share</b>	<b>CWD Share</b>
Engineering for Basis of Design	\$ 18,340	\$ 18,340	\$ -
Bench top pilot analysis	\$ 1,600	\$ 1,600	\$ -
Deliver PAC feed equipment	\$ 6,550	\$ 6,550	\$ -
Start up assistance	\$ 5,850	\$ 5,850	\$ -
One month's rental	\$ 5,750	\$ 5,750	\$ -
Equipment return	\$ 6,550	\$ 6,550	\$ -
PAC used (19 tons)	\$ 30,000	\$ -	\$ 30,000
Operation	\$ 2,170	\$ -	\$ 2,170
Set up by CWD staff	\$ 10,000	\$ -	\$ 10,000
Foundation	\$ 5,000	\$ 5,000	\$ -
Temporary shelter	\$ 2,000	\$ -	\$ 2,000
Feed water pipe, backflow preventer, valves, and connectors	\$ 15,000	\$ 15,000	\$ -
24" x 6" tapping sleeve and valve and hydrant (deleted not required)	\$ -	\$ -	\$ -
Electrical service	\$ 2,000	\$ -	\$ 2,000
Instrumentation	\$ 500	\$ -	\$ 500
Compressed air line	\$ 550	\$ -	\$ 550
Contingencies	\$ 10,000	\$ 10,000	\$ -
<b>Total</b>	<b>\$ 121,860</b>	<b>\$ 74,640</b>	<b>\$ 47,220</b>

Notes:

1. Based upon costs in Table 1 of Basis of Design report prepared by DG