

**SUBEXCAVATION Calculations**

STA	WIDTH	AVE WIDTH	LENGTH (FT)	AREA (FT <sup>2</sup> )	DEPTH SUB EX	VOLUME SUB EX
1675+30	25.76					
1675+50	28.58	27.17	20.00	543.40	3.58	1945.37
1676+00	28.58	28.58	50.00	1429.00	3.58	5115.82
1676+00	43.80	36.19				
1676+26.01	63.52	53.66	26.01	1395.70	3.58	4996.59
1676+50	61.52	62.52	23.99	1499.85	3.58	5369.48
1677+00	57.95	59.74	50.00	2986.75	3.58	10692.57
1677+13.51	55.58	56.77	13.51	766.90	3.58	2745.48
1677+50	52.44	54.01	36.49	1970.82	3.58	7055.55
1677+60	59.46	55.95	10.00	559.50	3.58	2003.01
1678+00	46.91	53.19	40.00	2127.40	3.58	7616.09
1678+20	45.50	46.21	20.00	924.10	3.58	3308.28
<b>TOTALS</b>			<b>290.00</b>	<b>14203.42</b>		<b>50848.25</b>

SUBEXCAVATION = 50848.25 27.00 1883.27 CUYD ✓

Project Name: FORT VANCOUVER NATIONAL PARK  
 Project Number: WA PRA FVNP 100(1)  
 Item No. **20402-0000 SUBEXCAVATION**  
 Field Measurements by: Fred Smith 9/06/2012  
 Calculations by: John B. Contractor 9/07/2012

*Kelcovitto* 9/13/2012  
*[Signature]* 9/13/12