



**Cegertec**  
**WorleyParsons**

**Arianne Phosphate Inc.**

**Apatite Mine Project, Lac-À-Paul - Transportation & Maritime Terminal**



<b>CWP Project No.:</b> 21526-100	<b>Date:</b> 2014-09-17	<b>Estimator:</b> Frédéric Côté (Nardella Group)
<b>Estimate Accuracy:</b> +/-15%	<b>Revision:</b> 1	<b>Coordinator:</b> Maxim Paradis-Girard (CWP)

<b>ESTIMATE CURRENCY: CAD</b>		<b>Material Sub-Total</b>	<b>Manhour Total</b>	<b>Field Labour Cost</b>	<b>Labour Indirects Cost</b>	<b>Construction Equipment &amp; Indirects</b>	<b>TOTAL</b>
<b>Sub-Total by Discipline</b>	<b>Architecture</b>	449 585.64 \$	2461.1	184 800.95 \$	100 434.91 \$	49 491.91 \$	784 313.41 \$
	<b>Building Services</b>	766 050.00 \$	6047.0	460 539.52 \$	236 740.05 \$	49 706.34 \$	1 513 035.91 \$
	<b>Concrete</b>	18 529 855.64 \$	252359.5	18 873 970.32 \$	9 496 289.65 \$	4 147 821.58 \$	51 047 937.19 \$
	<b>Dust Collection</b>	1 539 570.50 \$	7273.1	565 188.72 \$	289 103.74 \$	101 240.86 \$	2 495 103.81 \$
	<b>Earthwork</b>	558 946.81 \$	53748.0	3 704 847.52 \$	1 818 421.44 \$	2 153 143.65 \$	8 235 359.43 \$
	<b>Electrical High Voltage</b>	5 816 829.49 \$	8432.9	654 729.16 \$	334 954.18 \$	52 368.21 \$	6 858 881.04 \$
	<b>Electrical Low Voltage</b>	1 125 519.69 \$	5930.4	451 661.17 \$	232 176.14 \$	48 748.09 \$	1 858 105.09 \$
	<b>Inst.&amp;Control</b>	1 396 803.00 \$	13268.3	980 528.11 \$	501 940.17 \$	115 965.03 \$	2 995 236.31 \$
	<b>Mechanical Equipment</b>	45 847 510.67 \$	37491.2	2 868 454.62 \$	1 454 285.12 \$	730 329.32 \$	50 900 579.72 \$
	<b>Offsite/Earthwork (Roads &amp; Bridges)</b>	5 181 300.00 \$	172959.7	8 618 579.48 \$	5 515 683.31 \$	10 342 987.21 \$	29 658 550.00 \$
	<b>Project Indirects</b>	9 452 353.50 \$	55335.4	3 880 505.99 \$	48 750 542.37 \$	1 495 463.71 \$	63 578 865.57 \$
	<b>Structural Steel</b>	3 643 619.51 \$	19253.4	1 453 823.85 \$	740 293.04 \$	652 112.49 \$	6 489 848.89 \$
<b>TOTAL</b>	<b>94 307 944 \$</b>	<b>634 560</b>	<b>42 697 629 \$</b>	<b>69 470 864 \$</b>	<b>19 939 378 \$</b>	<b>226 415 816 \$</b>	

**317**

**DA28**

Projet d'ouverture et d'exploitation  
de la mine d'apatite du Lac à Paul au  
Saguenay-Lac-Saint-Jean

6211-08-006

ESTIMATE CURRENCY: CAD		Material Sub-Total	Manhour Total	Field Labour Cost	Labour Indirects Cost	Construction Equipment & Indirects	TOTAL
Sub-Total by WBS	<b>4310 Roads</b>	<b>5 181 300 \$</b>	<b>172 960</b>	<b>8 618 579 \$</b>	<b>5 515 683 \$</b>	<b>10 342 987 \$</b>	<b>29 658 550 \$</b>
	4311 Haul Road Repairs	3 293 250.00 \$	131866.5	6 570 908.72 \$	4 205 223.34 \$	7 885 617.93 \$	21 955 000.00 \$
	4312 Bridges (Repairs & New)	778 500.00 \$	2486.6	123 906.00 \$	79 296.86 \$	148 697.15 \$	1 130 400.00 \$
	4313 New Haul Road Section	1 109 550.00 \$	38606.6	1 923 764.75 \$	1 231 163.11 \$	2 308 672.13 \$	6 573 150.00 \$
	<b>4320 Infrastructure</b>	<b>5 451 649 \$</b>	<b>23 690</b>	<b>1 749 710 \$</b>	<b>951 774 \$</b>	<b>422 529 \$</b>	<b>8 575 661 \$</b>
	4322 Earthwork	99 897.00 \$	2881.0	198 587.17 \$	163 718.85 \$	115 412.77 \$	577 615.79 \$
	4323 Water Well	167 181.75 \$	770.3	55 055.22 \$	27 077.34 \$	19 383.66 \$	268 697.97 \$
	4325 Fencing, Access Gate & Admin. Bldg	436 571.60 \$	1942.6	137 841.65 \$	73 329.03 \$	58 804.76 \$	706 547.05 \$
	4326 Fire Protection and Detection Systems	1 271 268.36 \$	10767.6	805 120.42 \$	407 226.38 \$	158 746.37 \$	2 642 361.53 \$
	4327 Process Control System & IT Infrastructure	940 796.00 \$	1209.0	89 341.41 \$	45 734.58 \$	10 566.22 \$	1 086 438.21 \$
	4328 Power Sub Station	2 504 445.29 \$	5947.4	451 875.87 \$	229 076.86 \$	52 705.74 \$	3 238 103.75 \$
	4329 Sanitary Installations	31 489.00 \$	172.5	11 888.38 \$	5 610.46 \$	6 909.16 \$	55 897.00 \$
	<b>4330 Truck Unloading</b>	<b>4 381 696 \$</b>	<b>31 089</b>	<b>2 266 816 \$</b>	<b>1 118 683 \$</b>	<b>731 304 \$</b>	<b>8 498 499 \$</b>
	4331 Earthwork	0.00 \$	11892.2	819 726.20 \$	386 851.78 \$	476 399.70 \$	1 682 977.68 \$
	4332 Truck Tipper	2 757 425.40 \$	17049.9	1 283 938.79 \$	648 962.81 \$	217 583.70 \$	4 907 910.69 \$
	4333 Surface Feeder	1 624 270.36 \$	2146.7	163 151.21 \$	82 868.54 \$	37 320.88 \$	1 907 610.99 \$
	<b>4340 Storage</b>	<b>22 288 275 \$</b>	<b>192 178</b>	<b>14 353 002 \$</b>	<b>7 215 188 \$</b>	<b>4 214 624 \$</b>	<b>48 071 089 \$</b>
	4341 Transfer Conveyor	5 149 980.75 \$	9115.4	692 876.40 \$	352 053.06 \$	162 025.93 \$	6 356 936.13 \$
	4342 Transfer Tower #1	3 521 620.37 \$	14505.4	1 096 431.76 \$	558 368.15 \$	307 907.61 \$	5 484 327.89 \$
	4343 Dome Conveyors	4 947 971.50 \$	12457.0	947 089.80 \$	480 958.31 \$	240 538.11 \$	6 616 557.72 \$
	4344 Domes	8 668 702.35 \$	156099.9	11 616 603.89 \$	5 823 808.30 \$	3 504 152.22 \$	29 613 266.76 \$
	<b>4350 Handling to Ship</b>	<b>14 348 045 \$</b>	<b>41 685</b>	<b>3 126 159 \$</b>	<b>1 575 470 \$</b>	<b>909 882 \$</b>	<b>19 959 556 \$</b>
	4351 Reclaim Conveyors (2)	5 583 623.10 \$	10833.8	826 434.64 \$	420 591.89 \$	175 595.57 \$	7 006 245.21 \$
	4352 Transfer Tower #2	432 647.48 \$	3669.1	276 013.93 \$	140 054.46 \$	77 703.29 \$	926 419.15 \$
	4353 Outbound Conveyor	7 909 387.53 \$	24327.0	1 808 496.77 \$	905 475.33 \$	572 710.18 \$	11 196 069.81 \$
	4354 Transfer Tower #3	422 387.00 \$	2855.1	215 213.22 \$	109 348.52 \$	83 872.70 \$	830 821.45 \$
	<b>4360 Ship Loader</b>	<b>13 404 626 \$</b>	<b>117 343</b>	<b>8 681 434 \$</b>	<b>4 332 663 \$</b>	<b>1 817 135 \$</b>	<b>28 235 858 \$</b>
	4361 Wharf	11 142 694.17 \$	114836.4	8 489 301.40 \$	4 234 559.11 \$	1 783 514.82 \$	25 650 069.50 \$
	4362 Ship Loader	2 261 931.94 \$	2506.7	192 133.03 \$	98 103.46 \$	33 619.70 \$	2 585 788.14 \$
	<b>4370 Off-Spec Trailers</b>	<b>19 800 000 \$</b>	<b>0</b>	<b>0 \$</b>	<b>0 \$</b>	<b>0 \$</b>	<b>19 800 000 \$</b>
	4371 Trailers	19 800 000.00 \$	0.0	0.00 \$	0.00 \$	0.00 \$	19 800 000.00 \$
	<b>9000 Indirects</b>	<b>9 452 354 \$</b>	<b>55 615</b>	<b>3 901 929 \$</b>	<b>48 761 404 \$</b>	<b>1 500 918 \$</b>	<b>63 616 604 \$</b>
	9111 Heavy Lifting Equipment	95 000.00 \$	0.0	0.00 \$	0.00 \$	0.00 \$	95 000.00 \$
9121 General Indirects	908 588.00 \$	49817.8	3 487 246.98 \$	6 536 478.05 \$	1 453 019.00 \$	12 385 332.03 \$	
9122 Temporary Power	639 431.50 \$	5163.6	393 259.01 \$	202 154.55 \$	42 444.71 \$	1 277 289.77 \$	
9131 Room & Board	0.00 \$	0.0	0.00 \$	4 976 739.00 \$	0.00 \$	4 976 739.00 \$	
9211 "Quoted" Freight on Equip. & Material	0.00 \$	0.0	0.00 \$	2 480 000.00 \$	0.00 \$	2 480 000.00 \$	
9221 "Not-Quoted" Freight on Equip. & Material	0.00 \$	0.0	0.00 \$	806 610.53 \$	0.00 \$	806 610.53 \$	
9311 Engineering	0.00 \$	0.0	0.00 \$	4 700 000.00 \$	0.00 \$	4 700 000.00 \$	
9321 Procurement	0.00 \$	0.0	0.00 \$	975 000.00 \$	0.00 \$	975 000.00 \$	
9331 Construction Management	0.00 \$	0.0	0.00 \$	13 622 710.24 \$	0.00 \$	13 622 710.24 \$	
9332 Offsite Construction Management	0.00 \$	0.0	0.00 \$	2 925 850.00 \$	0.00 \$	2 925 850.00 \$	
9341 Commissioning & Start-Up	0.00 \$	40.0	3 060.40 \$	1 551.60 \$	779.20 \$	5 391.20 \$	
9351 Health, Security & Environment	0.00 \$	0.0	0.00 \$	225 000.00 \$	0.00 \$	225 000.00 \$	
9401 Spare Parts	392 664.00 \$	0.0	0.00 \$	0.00 \$	0.00 \$	392 664.00 \$	
9701 Vendor Reps/Services	0.00 \$	594.0	18 362.40 \$	9 309.60 \$	4 675.20 \$	32 347.20 \$	
9801 Contingency	7 416 670.00 \$	0.0	0.00 \$	0.00 \$	0.00 \$	7 416 670.00 \$	
9901 Owner's Costs	0.00 \$	0.0	0.00 \$	11 300 000.00 \$	0.00 \$	11 300 000.00 \$	
<b>TOTAL</b>	<b>94 307 944 \$</b>	<b>634 560</b>	<b>42 697 629 \$</b>	<b>69 470 864 \$</b>	<b>19 939 378 \$</b>	<b>226 415 816 \$</b>	