# *Direct Cost Estimates*

## Pond Rectification - Kroll Gardens

*Printed : January 13, 2020 12:04:22*

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **Line No : 3** | **Item No : 1.1 Site Establishment** | **Quantity : 1.000** | | | | **LS** | **Contributing (Qty)** | | | |
| **1** | **Office and Compound** | | | | | | | | | |
| 2 | =(2.5[#duration]) | OFFICE.6X3 | week | 2.5000 | 60.000 | | | 150 | | 150 |
| 3 | =(2.5[#lq2]) | CONTAINER.3X3 | week | 2.5000 | 31.000 | | | 78 | | 78 |
| 4 | =(2.5[#lq2]) | TOILET.PORTABLE | week | 2.5000 | 55.000 | | | 138 | | 138 |
| 5 | | Float | each | 4.0000 | 500.000 | | | 2000 | | 2000 |
| 6 | | Sewer pump | each | 4.0000 | ??????400.000 | | | 1600 | | 1600 |
| 7 | Water, signs, etc. | Misc Materials | Item | 400.0000 | 1.000 | | 400 | | | 400 |
| 8 | | FENCE TEMP MESH | M | 150.0000 | ??????11.000 | | 1650 | | | 1650 |
| 9 | | Labour | hr | 5.0000 | 45.000 | 225 | | | | 225 |
| 10 | | | | | | | | | | |
| 11 | Extra allowance for floats and deliveries | | | | | | | | | |
| 12 | | Float | each | 2.0000 | 500.000 | | | 1000 | | 1000 |
| 13 | | | | | | | | | | |
| **14** | **Access into pond** | | | | | | | | | |
| 15 | =(2 No *5m wide * 0.6 high * 2.4m long * 0.5 *1.9[#Qfill]) | Q - Select Fill | tonne | 13.6800 | 15.200 | | 208 | | | 208 |
| 16 | =(13.68[#lq15]) | Q - Tandem | tonne | 13.6800 | 6.100 | | 83 | | | 83 |
| 17 | | EXC 8 | hr | 4.0000 | ??????115.000 | | | 460 | | 460 |
| 18 | | bob combo | hr | 4.0000 | 90.000 | | | 360 | | 360 |
| 19 | | Labour | hr | 4.0000 | 45.000 | 180 | | | | 180 |
| 20 | | | | | | | | | | |
| **21** | **Remove Access** | | | | | | | | | |
| 22 | | EXC 8 | hr | 4.0000 | ??????115.000 | | | 460 | | 460 |
| 23 | | bob combo | hr | 6.0000 | 90.000 | | | 540 | | 540 |
| 24 | | Labour | hr | 4.0000 | 45.000 | 180 | | | | 180 |
| 25 | =(13.68[#lq15]) | Tip - Clean Fill | tonne | 13.6800 | ??????21.000 | | | | 287 | 287 |
| 26 | | | | | | | | | | |
| **27** | **Service Location** | | | | | | | | | |
| 28 | Locate sewer | VAC EXCAVATION | HR | 6.0000 | ??????170.000 | | | | 1020 | 1020 |

# Direct Cost Estimates

*Printed : January 13, 2020 12:04:22*

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 29 | | VAC DISPOSAL | TONNE | 2.0000 | ??????90.000 | | | | 180 | 180 |
| | | | | | **11198.664** | **585** | **2341** | **6785** | **1487** | **11199** |

**Line No : 4 Item No : 1.2 Environmental management verifcation and control Quantity : 1.000 LS Contributing (Qty)**

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CPSEC to draft plan and certify | | | | | | | | | |
| 2 | | Engineer | hr | 4.0000 | ??????180.000 | 720 | | | | 720 |
| 3 | | | | | | | | | | |
| 4 | Inspection | | | | | | | | | |
| 5 | | Engineer | hr | 3.0000 | ??????180.000 | 540 | | | | 540 |
| | | | | | **1260.000** | **1260** | | | | **1260** |

**Line No : 8 Item No : 2.1 Demolish and remove existing fence from site Quantity : 1.000 LS Contributing (Qty)**

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | =(2lab * 8hr) | Labour | hr | 16.0000 | 45.000 | 720 | | | | 720 |
| 2 | | Small Tools/Equip | Item | 1.0000 | ??????100.000 | | | 100 | | 100 |
| 3 | | Skip | each | 1.0000 | ??????450.000 | | | 450 | | 450 |
| | | | | | **1270.000** | **720** | | **550** | | **1270** |

**Line No : 9 Item No : 2.2 Clear site of vegetation including debris, rubbish, small trees & shrubs Quantity : 1.000 LS Contributing (Qty)**

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Remove trees and fallen vegetation | | | | | | | | | |
| 2 | | EXC 8 | hr | 6.0000 | ??????115.000 | | | 690 | | 690 |
| 3 | | bob combo | hr | 10.0000 | 90.000 | | | 900 | | 900 |
| 4 | =(34[#LR]) | Tip - Green | tonne | 34.0000 | ??????72.000 | | | | 2448 | 2448 |
| 5 | =(1 trip*10*2) | Tip - Clean Fill | tonne | 20.0000 | ??????21.000 | | | | 420 | 420 |
| 6 | | | | | | | | | | |
| 7 | Slash long grass | | | | | | | | | |

# Direct Cost Estimates

*Printed : January 13, 2020 12:04:22*

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 8 | | Labour | hr | 5.0000 | 45.000 | 225 | | | | 225 |
| 9 | | Small Tools/Equip | Item | 1.0000 | ??????100.000 | | | 100 | | 100 |
| 10 | | | | | | | | | | |
| 11 | Clean Fence | | | | | | | | | |
| 12 | | Labour | hr | 5.0000 | 45.000 | 225 | | | | 225 |
| 13 | | | | | | | | | | |
| 14 | Strip Topsoil | | | | | | | | | |
| 15 | =(258.2[#LP]) Voume based on 200mm assumed depth | | | 258.2000 | | | | | | |
| 16 | | EXC 8 | hr | 10.0000 | ??????115.000 | | | 1150 | | 1150 |
| 17 | | bob combo | hr | 10.0000 | 90.000 | | | 900 | | 900 |
| 18 | | Labour | hr | 10.0000 | 45.000 | 450 | | | | 450 |
| 19 | Test topsoil | Gen Test | each | 1.0000 | ??????350.000 | | | | 350 | 350 |
| | | | | | **7858.000** | **900** | | **3740** | **3218** | **7858** |

| Line No : 10 | Item No : 2.3 | Bulk Earthworks - Cut & Fill | Quantity : | 1.000 | LS | Contributing (Qty) |
|---|---|---|---|---|---|---|

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **1** | **Calculations** | | | | | | | | | |
| 2 | =(106) cut volume | | | 106.0000 | | | | | | |
| 3 | | | | | | | | | | |
| 4 | Earthworks will take 2 days due to tracking between ponds and needing to construct sandstone wall for portion | | | | | | | | | |
| 5 | Therefore, assume two 7.5 hour days, not 10hr | | | | | | | | | |
| 6 | | | | | | | | | | |
| **7** | **Cut to Fill** | | | | | | | | | |
| 8 | =(2 * 7.5) | EXC 8 | hr | 15.0000 | ??????115.000 | | | 1725 | | 1725 |
| 9 | =(15[#lq8]) | bob combo | hr | 15.0000 | 90.000 | | | 1350 | | 1350 |
| 10 | | Roller 2t | day | 2.0000 | 200.000 | | | 400 | | 400 |
| 11 | =(15[#lq8]) | Labour | hr | 15.0000 | 45.000 | 675 | | | | 675 |
| 12 | | | | | | | | | | |
| **13** | **Trim subgrade for gravel section** | | | | | | | | | |
| 14 | | EXC 8 | hr | 2.0000 | ??????115.000 | | | 230 | | 230 |
| | | | | | **4380.000** | **675** | | **3705** | | **4380** |

**Line No : 11 Item No : 2.4 Fill with Imported Soil (including additional 30%) Quantity : 1.000 LS Contributing (Qty)**

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **1** | **Calculations** | | | | | | | | | |
| 2 | =(140) Fill | | | 140.0000 | | | | | | |
| 3 | =(106*0.85) compacted cut | | | 90.1000 | | | | | | |
| 4 | =(17*0.85) compacted spoil) | | | 14.4500 | | | | | | |
| 5 | =((140[#lq2]-90.1[#lq3]-14.45[#lq4])*1.3) import | | | 46.0850 | | | | | | |
| 6 | | | | | | | | | | |
| **7** | **Build Up** | | | | | | | | | |
| 8 | Material | | | | | | | | | |
| 9 | =(46.085[#lq5]*2.2) | Q - Select Fill | tonne | 101.3870 | 15.200 | | 1541 | | | 1541 |
| 10 | | | | | | | | | | |
| 11 | Placement | | | | | | | | | |
| 12 | | bob combo | hr | 4.0000 | 90.000 | | | 360 | | 360 |
| 13 | | Roller 2t | day | 1.0000 | 200.000 | | | 200 | | 200 |
| 14 | | Labour | hr | 4.0000 | 45.000 | 180 | | | | 180 |
| | | | | | **2281.082** | **180** | **1541** | **560** | | **2281** |

**Line No : 12 Item No : 2.5 Fill with Road base Quantity : 1.000 LS Contributing (Qty)**

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **1** | **Qty from plans** | | | | | | | | | |
| 2 | =(160) area | | | 160.0000 | | | | | | |
| 3 | =(19) volume | | | 19.0000 | | | | | | |
| 4 | | | | | | | | | | |
| **5** | **Build Up** | | | | | | | | | |
| **6** | **Materials** | | | | | | | | | |
| 7 | =(19[#lq3]*2.4[#Qgravel]*1.07[#waste]) | CBR 15 | tonne | 48.7920 | 17.200 | | 839 | | | 839 |
| 8 | =(48.792[#lq7]) | Q - Tandem | tonne | 48.7920 | 6.100 | | 298 | | | 298 |
| 9 | | | | | | | | | | |
| **10** | **Placement** | | | | | | | | | |

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 11 | | EXC 8 | hr | 4.0000 | ??????115.000 | | | 460 | | 460 |
| 12 | | bob combo | hr | 6.0000 | 90.000 | | | 540 | | 540 |
| 13 | Use trench roller or large plate/hand held roller | Roller 2t | day | 1.0000 | 200.000 | | | 200 | | 200 |
| 14 | Deliver roller | Float | each | 0.5000 | 500.000 | | | 250 | | 250 |
| 15 | =(6[#lq12]*2 lab) | Labour | hr | 12.0000 | 45.000 | 540 | | | | 540 |
| 16 | | | | | | | | | | |
| **17** | **Trim** | | | | | | | | | |
| 18 | | EXC 8 | hr | 2.0000 | ??????115.000 | | | 230 | | 230 |
| 19 | | | | | | | | | | |
| **20** | **=st(6:18,19[#lq3]) $ per cube** | | | | **176.677** | **540** | **1137** | **1680** | | **3357** |
| | | | | | **3356.854** | **540** | **1137** | **1680** | | **3357** |

**Line No : 13 Item No : 2.6 Trimming to levels Quantity : 1.000 LS Contributing (Qty)**

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **1** | **Base Qty** | | | | | | | | | |
| 2 | =(1291) earthworks area | | | 1291.0000 | | | | | | |
| 3 | =(65) length of swale | | | 65.0000 | | | | | | |
| 4 | =(1800) production m2 per day | | | 1800.0000 | | | | | | |
| 5 | | | | | | | | | | |
| **6** | **Build Up** | | | | | | | | | |
| 7 | =roundup((1291[#lq2]/1800[#lq4])*10) | EXC 8 | hr | 8.0000 | ??????115.000 | | | 920 | | 920 |
| 8 | =(8[#lq7]) | bob combo | hr | 8.0000 | 90.000 | | | 720 | | 720 |
| 9 | | Bobcat attachment | day | 1.0000 | 25.000 | | | 25 | | 25 |
| 10 | =(8[#lq7]) | Labour | hr | 8.0000 | 45.000 | 360 | | | | 360 |
| **11** | **=st(7:10,1291[#lq2])** | | | | **1.569** | **360** | | **1665** | | **2025** |
| 12 | | | | | | | | | | |
| 13 | Swale trim | EXC 8 | hr | 2.0000 | ??????115.000 | | | 230 | | 230 |
| 14 | | | | | | | | | | |
| 15 | =st(13,65[#lq3]) $ per m | | | | 3.538 | | | 230 | | 230 |
| | | | | | **2255.000** | **360** | | **1895** | | **2255** |

**Line No : 14 Item No : 2.7 Loading, transporting & disposal of excess unsuitable spoil from site including tip fees (provisional quantity) Quantity : 130.000 m3 Contributing (Qty)**

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | =(1291*(0.2-0.1)) excess topsoil due to assuming 200mm strip but only 100mm respread | | | 129.1000 | | | | | | |
| 2 | =(129.1[#lq1]*1.7) bulked volume | | | 219.4700 | | | | | | |
| 3 | =(219.47[#lq2]/20) truck and dog loads | | | 10.9735 | | | | | | |
| 4 | | | | | | | | | | |
| 5 | Transfer station is under 1km away | | | | | | | | | |
| 6 | Half a day operation with 2 trucks | | | | | | | | | |
| 7 | | | | | | | | | | |
| ~~8~~ | | ~~EXC 8~~ | ~~hr~~ | ~~5.0000~~ | ~~??????115.000~~ | | | ~~575~~ | | ~~575~~ |
| ~~9~~ | ~~=(5[#lq8]*2 trucks)~~ | ~~Truck and Dog~~ | ~~hr~~ | ~~10.0000~~ | ~~??????115.000~~ | | | ~~1150~~ | | ~~1150~~ |
| ~~10~~ | ~~=(5[#lq8])~~ | ~~Labour~~ | ~~hr~~ | ~~5.0000~~ | ~~45.000~~ | ~~225~~ | | | | ~~225~~ |
| ~~11~~ | ~~=(129.1[#lq1]*1.9[#Qfill])~~ | ~~Tip - Clean Fill~~ | ~~tonne~~ | ~~245.2900~~ | ~~??????21.000~~ | | | | ~~5151~~ | ~~5151~~ |
| 12 | | | | | | | | | | |
| 13 | | | | | | | | | | |
| 14 | Remove topsoil via haulage | | | | | | | | | |
| 15 | | EXC 8 | hr | 10.0000 | ??????115.000 | | | 1150 | | 1150 |
| 16 | =(219.47[#lq2]) | Export - Topsoil | m³ | 219.4700 | ??????15.000 | | | | 3292 | 3292 |
| 17 | | Labour | hr | 10.0000 | 45.000 | 450 | | | | 450 |
| 18 | | | | | | | | | | |
| 19 | Removal of general waste materials | | | | | | | | | |
| 20 | | bob combo | hr | 10.0000 | 90.000 | | | 900 | | 900 |
| 21 | | Tip - Clean Fill | tonne | 20.0000 | ??????21.000 | | | | 420 | 420 |
| | | | | | **47.785** | **450** | | **2050** | **3712** | **6212** |

# Direct Cost Estimates

*Printed : January 13, 2020 12:04:22*

**Line No : 18 | Item No : 3.1 | Pedestrian Safety Fence - 1.3m high (Refer Std. Drg. SF-1510) | Quantity : 25.200 | m | Contributing (Qty)**

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Quote from Ford Brothers | | | | | | | | | |
| 2 | =(25.2[#QTY]) | 1.2m fence | m | 25.2000 | 150.000 | | | | 3780 | 3780 |
| | | | | | **150.000** | | | | **3780** | **3780** |

**Line No : 19 | Item No : 3.2 | Preparation of surface other than stepped batters | Quantity : 1.000 | LS | Contributing (Qty)**

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | L Prep | m² | 1575.0000 | ????????0.580 | | | | 914 | 914 |
| | | | | | **913.500** | | | | **914** | **914** |

**Line No : 20 | Item No : 3.3 | Spread topsoil from stockpile | Quantity : 1.000 | LS | Contributing (Qty)**

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **1** | **Calculations** | | | | | | | | | |
| 2 | =(130) respread volume | | | 130.0000 | | | | | | |
| 3 | =(180) production per day | | | 180.0000 | | | | | | |
| 4 | | | | | | | | | | |
| **5** | **Build Up** | | | | | | | | | |
| 6 | =((130[#lq2]/180[#lq3])*10) | EXC 8 | hr | 7.2222 | ??????115.000 | | | 831 | | 831 |
| 7 | =(7.2222[#lq6]) | bob combo | hr | 7.2222 | 90.000 | | | 650 | | 650 |
| 8 | =(7.2222[#lq6]) | Tandem | hr | 7.2222 | 85.000 | | | 614 | | 614 |
| 9 | =(7.2222[#lq6]) | Labour | hr | 7.2222 | 45.000 | 325 | | | | 325 |
| 10 | | | | | | | | | | |
| **11** | **=st(6:10,130[#lq2])** | | | | **18.611** | **325** | | **2094** | | **2419** |
| | | | | | **2419.437** | **325** | | **2094** | | **2419** |

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **Line No : 21** | **Item No : 3.4 Cultivation - Ripping and amelioration of subsoil - 150 deep** | **Quantity :** | | **1,575.000** | | | **m2** | **Contributing (Qty)** | | |
| 1 | =(1575[#QTY]) | L Cultivation | m² | 1575.0000 | ????????5.490 | | | | 8647 | 8647 |
| | | | | | **5.490** | | | | **8647** | **8647** |
| **Line No : 24** | **Item No : 3.5 Supply and Install Sir Walter (Shade) or Sea Isle (Coastal) Turf as specified** | **Quantity :** | | **100.000** | | | **m2** | **Contributing (Qty)** | | |
| 1 | =(100[#QTY]) | Turf | m² | 100.0000 | ????????3.500 | | 350 | | | 350 |
| 2 | Pick up turf - small qty | Tandem | hr | 1.0000 | 85.000 | | | 85 | | 85 |
| 3 | =(2 labs *3hr) | Labour | hr | 6.0000 | 45.000 | 270 | | | | 270 |
| | | | | | **7.050** | **270** | **350** | **85** | | **705** |
| **Line No : 27** | **Item No : 3.6 Tube stock** | **Quantity :** | | **3,915.000** | | | **each** | **Contributing (Qty)** | | |
| 1 | =(3915[#QTY]) | Tubestock | each | 3915.0000 | ????????2.500 | | | | 9788 | 9788 |
| | | | | | **2.500** | | | | **9788** | **9788** |
| **Line No : 28** | **Item No : 3.7 140mm pot** | **Quantity :** | | **160.000** | | | **each** | **Contributing (Qty)** | | |
| 1 | =(160[#QTY]) | 140 pot | each | 160.0000 | ????????6.200 | | | | 992 | 992 |
| | | | | | **6.200** | | | | **992** | **992** |

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **Line No : 29** | **Item No : 3.8 Plant and Landscape Maintenance** | | **Quantity :** | **1.000** | | **LS** | **Contributing (Qty)** | | | |
| 1 | Watering | | | | | | | | | |
| 2 | =(6weeks*5visits) first phase | | | 30.0000 | | | | | | |
| 3 | =(5weeks*3visits) second phase | | | 15.0000 | | | | | | |
| 4 | =(4weeks*2visits) third phase | | | 8.0000 | | | | | | |
| 5 | =((30[#lq2]+15[#lq3]+8[#lq4])*2hrs) | Watercart | hr | 106.0000 | 95.000 | | | 10070 | | 10070 |
| 6 | | | | | | | | | | |
| 7 | Maintenance | | | | | | | | | |
| 8 | | L Establish | week | 12.0000 | ??????350.000 | | | | 4200 | 4200 |
| | | | | | **14270.000** | | | **10070** | **4200** | **14270** |
| **Line No : 30** | **Item No : 3.9 Supply and place Hoop Pine Mulch** | | **Quantity :** | **1,230.000** | | **m2** | **Contributing (Qty)** | | | |
| 1 | =(1230[#QTY]*0.075) | L - Mulch | m³ | 92.2500 | ??????28.000 | | | | 2583 | 2583 |
| 2 | =(2lab * 10hr) | L - Labour | hr | 20.0000 | ??????35.000 | | | | 700 | 700 |
| 3 | | Small Tools/Equip | Item | 1.0000 | ??????100.000 | | | 100 | | 100 |
| | | | | | **2.750** | | | **100** | **3283** | **3383** |
| **Line No : 34** | **Item No : 4.1 Supply and install 400x400x1000mm Sandstone Block Wall as detailed and specified** | | **Quantity :** | **45.000** | | **unit** | **Contributing (Qty)** | | | |
| 1 | Materials | | | | | | | | | |
| 2 | =(45[#QTY]*1.07[#waste]) | Boulder A | m | 48.1500 | 86.400 | | 4160 | | | 4160 |
| 3 | | | | | | | | | | |
| 4 | Placement | | | | | | | | | |
| 5 | | EXC 8 | hr | 10.0000 | ??????115.000 | | | 1150 | | 1150 |
| 6 | | Labour | hr | 5.0000 | 45.000 | 225 | | | | 225 |
| 7 | | | | | | | | | | |
| 8 | Grout Gaps | | | | | | | | | |
| 9 | | Labour | hr | 5.0000 | 45.000 | 225 | | | | 225 |

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 10 | | Conc Min | Item | 1.0000 | ??????300.000 | | 300 | | | 300 |
| | | | | | **134.670** | **450** | **4460** | **1150** | | **6060** |

| Line No : 38 | Item No : 5.1 | Traffic/Pedestrian Management | Quantity : | 1.000 | LS | Contributing (Qty) |
|---|---|---|---|---|---|---|

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Access to site from gates along Duffield St - no TC required | | | | | | | | | |
| 2 | =(300) length from gate to site | | | 300.0000 | | | | | | |
| 3 | | | | | | | | | | |
| **4** | **Create flagged access track** | | | | | | | | | |
| 5 | =((300[#lq2]*2)/4crs) | Star Picket | each | 150.0000 | 7.500 | | 1125 | | | 1125 |
| 6 | =roundup(150[#lq5]/100) | Picket Caps | each | 2.0000 | 41.000 | | 82 | | | 82 |
| 7 | =((300[#lq2]*2*2rows)/100) | Flagging | each | 12.0000 | 44.000 | | 528 | | | 528 |
| 8 | =(2labs *10hrs) | Labour | hr | 20.0000 | 45.000 | 900 | | | | 900 |
| 9 | | | | | | | | | | |
| **10** | **=st(5:8,300[#lq2]*2)** | | | | **4.392** | **900** | **1735** | | | **2635** |
| 11 | | | | | | | | | | |
| 12 | Allowance for signs | Misc Materials | Item | 500.0000 | 1.000 | | 500 | | | 500 |
| 13 | | | | | | | | | | |
| 14 | Additional labour time to open and close gate for delivers and general communication with park users | | | | | | | | | |
| 15 | =(2.5[#duration]*5days*2hr) Extra hour a day | Labour | hr | 25.0000 | 45.000 | 1125 | | | | 1125 |
| 16 | | | | | | | | | | |
| 17 | | | | | | | | | | |
| 18 | =(20[#lq8]) remove flagging | Labour | hr | 20.0000 | 45.000 | 900 | | | | 900 |
| | | | | | **5160.000** | **2925** | **2235** | | | **5160** |

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|

**Line No : 42 Item No : 6.1 Erosion and sedimentation control Quantity : 1.000 LS Contributing (Qty)**

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | Silt Fence | m | 100.0000 | ????????4.500 | | | | 450 | 450 |
| 2 | | Min Charge | each | 1.0000 | ??????200.000 | | | | 200 | 200 |
| 3 | =(2.5[#duration]*5days) | Water trailer | day | 12.5000 | ??????200.000 | | | 2500 | | 2500 |
| 4 | =(12.5[#lq3]*2000l per day) | Water Supply | litre | 25000.0000 | ????????0.010 | | 250 | | | 250 |
| 5 | =(2.5[#duration]*2 days*2hr) | STREET SWEEPER | HR | 10.0000 | ??????110.000 | | | 1100 | | 1100 |
| 6 | | Misc Materials | Item | 500.0000 | 1.000 | | 500 | | | 500 |
| | | | | | **5000.000** | | **750** | **3600** | **650** | **5000** |

**Line No : 46 Item No : 7.1 Excavate, bed, lay, joint and backfill with imported material by depth. - 300mm SRCP (Depth less than 1.5m) Quantity : 26.600 m Contributing (Qty)**

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **1** | **Calculations** | | | | | | | | | |
| 2 | =(26.6[#QTY]) | | | 26.6000 | | | | | | |
| 3 | =((7.6-6.8)+0.15) Depth | | | 0.9500 | | | | | | |
| 4 | =(0.4+0.15+0.15) Width | | | 0.7000 | | | | | | |
| 5 | =(cirarea(0.2)) Pipe area | | | 0.1257 | | | | | | |
| 6 | =(0.95[#lq3]*0.7[#lq4]*26.6[#lq2]) Spoil volume | | | 17.6890 | | | | | | |
| 7 | =(17.689[#lq6]-(26.6[#lq2]*0.1257[#lq5])) Bedding volume | | | 14.3454 | | | | | | |
| 8 | | | | | | | | | | |
| **9** | **Build Up** | | | | | | | | | |
| 10 | Materials | | | | | | | | | |
| 11 | =(14.3454[#lq7]*2.2[#Qagg]*1.07[#waste]) | Drainage 20mm | tonne | 33.7691 | 27.200 | | 919 | | | 919 |
| 12 | | | | | | | | | | |
| 13 | Excavation | | | | | | | | | |
| 14 | =(26.6[#QTY]*1.33) production m per day | | | 35.3780 | | | | | | |
| 15 | =(26.6[#QTY]/35.378[#lq14]*10) | EXC 8 | hr | 7.5188 | ??????115.000 | | | 865 | | 865 |
| 16 | =(7.5188[#lq15]) | Backhoe | hr | 7.5188 | ??????115.000 | | | 865 | | 865 |
| 17 | =(7.5188[#lq15]) | Pipe Fore | hr | 7.5188 | ??????85.000 | 639 | | | | 639 |
| 18 | =(7.5188[#lq15]*2 labs) | Pipe Lab | hr | 15.0376 | ??????65.000 | 977 | | | | 977 |
| 19 | | Small Tools/Equip | Item | 1.0000 | ??????100.000 | | | 100 | | 100 |

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | | | | | | | | | | |
| *21* | *Note - Spoill to be placed in fill location* | | | | | | | | | |
| | | | | | **164.075** | **1617** | **919** | **1829** | | **4364** |

| **Line No : 47** | **Item No : 7.2** | **Supply and deliver of drainage pipes. - 300mm SRCP Class 2 RRJ** | **Quantity : 26.600** | **m** | **Contributing (Qty)** |
|---|---|---|---|---|---|

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | =(26.6[#QTY]/2.44) lengths | | | 10.9016 | | | | | | |
| 2 | =roundup(10.9016[#lq1]*2.44) | P-300-3 | m | 27.0000 | 45.150 | | 1219 | | | 1219 |
| 3 | | Delivery | Item | 1.0000 | ??????250.000 | | 250 | | | 250 |
| | | | | | **55.227** | | **1469** | | | **1469** |

| **Line No : 48** | **Item No : 7.3** | **Supply and install 300mm Precast Headwall** | **Quantity : 2.000** | **each** | **Contributing (Qty)** |
|---|---|---|---|---|---|

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | =(2[#QTY]) | H-300 | each | 2.0000 | 268.770 | | 538 | | | 538 |
| 2 | =(2[#QTY]*1hr) | Backhoe | hr | 2.0000 | ??????115.000 | | | 230 | | 230 |
| 3 | =(2[#lq2]*2) | Pipe Lab | hr | 4.0000 | ??????65.000 | 260 | | | | 260 |
| 4 | | Misc Materials | Item | 100.0000 | 1.000 | | 100 | | | 100 |
| | | | | | **563.770** | **260** | **638** | **230** | | **1128** |

| **Line No : 49** | **Item No : 7.4** | **Supply and Place Rock Spalls (to 150 nom. Dia.)** | **Quantity : 2.400** | **m2** | **Contributing (Qty)** |
|---|---|---|---|---|---|

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | <u>Material</u> | | | | | | | | | |
| 2 | =roundup(2.4[#QTY]*0.25*2.2[#Qagg]) | Rock 150-250 | tonne | 2.0000 | 33.200 | | 66 | | | 66 |
| 3 | =(2[#lq2]) | Q - Tandem | tonne | 2.0000 | 6.100 | | 12 | | | 12 |
| 4 | =roundup(2.4[#QTY]*2) | Geofab A24 | m² | 5.0000 | ????????1.500 | | 8 | | | 8 |
| *5* | *Assume order full tandem to use in other works* | | | | | | | | | |
| 6 | | | | | | | | | | |
| 7 | <u>Placement</u> | | | | | | | | | |

# Direct Cost Estimates

*Printed : January 13, 2020 12:04:22*

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 8 | | bob combo | hr | 2.0000 | 90.000 | | | 180 | | 180 |
| 9 | | Labour | hr | 2.0000 | 45.000 | 90 | | | | 90 |
| | | | | | **148.375** | **90** | **86** | **180** | | **356** |

**Line No : 50 Item No : 7.5 Field Inlet Pit - Type 2A (600 x 600) Quantity : 1.000 each Contributing (Qty)**

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Materials | | | | | | | | | |
| 2 | =(1[#QTY]) | 600x600 pit | each | 1.0000 | 258.080 | | 258 | | | 258 |
| 3 | =(1[#QTY]) | 600x600 grate D | each | 1.0000 | 262.600 | | 263 | | | 263 |
| 4 | =(.6*4*0.2*2.2[#Qagg]) | Drainage 20mm | tonne | 1.0560 | 27.200 | | 29 | | | 29 |
| 5 | | | | | | | | | | |
| 6 | Installation | | | | | | | | | |
| 7 | | EXC 8 | hr | 2.0000 | ??????115.000 | | | 230 | | 230 |
| 8 | | Backhoe | hr | 2.0000 | ??????115.000 | | | 230 | | 230 |
| 9 | | Pipe Fore | hr | 2.0000 | ??????85.000 | 170 | | | | 170 |
| 10 | =(2[#lq9]*2) | Pipe Lab | hr | 4.0000 | ??????65.000 | 260 | | | | 260 |
| | | | | | **1439.403** | **430** | **549** | **460** | | **1439** |

**Line No : 51 Item No : 7.6 Break into existing pit/manhole Quantity : 3.000 each Contributing (Qty)**

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | SAW TRAVEL | each | 1.0000 | 90.000 | | | | 90 | 90 |
| 2 | =(3[#QTY]*(200/10)) | SAW.CORE.WALL.300 | each | 60.0000 | ??????15.000 | | | | 900 | 900 |
| 3 | | SAW WATER | each | 1.0000 | 100.000 | | | | 100 | 100 |
| 4 | | | | | | | | | | |
| **5** | **Render Hole and pipe** | | | | | | | | | |
| 6 | =(3[#QTY]*1hr) | Pipe Lab | hr | 3.0000 | ??????65.000 | 195 | | | | 195 |
| 7 | | Conc Min | Item | 1.0000 | ??????300.000 | | 300 | | | 300 |
| 8 | | Small Tools/Equip | Item | 1.0000 | ??????100.000 | | | 100 | | 100 |
| | | | | | **561.667** | **195** | **300** | **100** | **1090** | **1685** |

# Direct Cost Estimates

*Printed : January 13, 2020 12:04:22*

| Line | Comment | Resource | Unit | Quantity | Rate | Labour | Material | Plant | Subcont. | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| **Line No : 52** | **Item No : 7.7** | **Flood/Tide Gate or Valve to Outlet - 300 pvc Unit** | **Quantity :** | **1.000** | | **each** | **Contributing (Qty)** | | | |
| 1 | Materials | | | | | | | | | |
| 2 | | 300mm Flap End | each | 1.0000 | ??????250.000 | | 250 | | | 250 |
| 3 | Buy 3m length | PVC 300 | m | 3.0000 | ??????75.000 | | 225 | | | 225 |
| 4 | Glue | Misc Materials | Item | 50.0000 | 1.000 | | 50 | | | 50 |
| 5 | | | | | | | | | | |
| 6 | Placement | | | | | | | | | |
| 7 | | Pipe Lab | hr | 2.0000 | ??????65.000 | 130 | | | | 130 |
| | | | | | **655.000** | **130** | **525** | | | **655** |
| **Line No : 53** | **Item No : 7.8** | **Supply, place and certify water-tight liner to frog pond** | **Quantity :** | **160.000** | | **m2** | **Contributing (Qty)** | | | |
| 1 | | Mobilisation | m² | 1.0000 | ????5000.000 | | | | 5000 | 5000 |
| 2 | =(160[#QTY]) | 1.5mm HDPE | m² | 160.0000 | ??????20.000 | | | | 3200 | 3200 |
| 3 | Stainless steel fittings | Misc Materials | Item | 250.0000 | 1.000 | | 250 | | | 250 |
| | | | | | **52.813** | | **250** | | **8200** | **8450** |