Te Pšrongo Pānga Taiao

EST. 9 MINUTE READING TIME

Kia mōhio mai: I whakamāoritia aunoatia tēnei whārangi mai i te reo Ingarihi taketake, koia tonu te putanga whaimana. Pānuitia ki te reo Ingarihi

I te taha o ngā tuhinga haumaru, ka whakarite a *Apollo* i tētahi **Pšrongo Pānga Taiao** mō te mahi: he whakatau tata mō ngā tukunga hau kati mahana me ngā rerenga rauemi ka hua mai i ngā mahi, he mea tuhituhi mā te hunga nāna aua mahi i tono. He tuhinga motuhake tēnei ka taea e koe te tuku takitahi atu, ā, he mea hanga mai i tētahi tūtohi i roto i te kaihanga ka taea e koe te whakatika pērā tonu i ērā atu wāhanga.

E noho ana tēnei pšrongo i te mea kei te piki haere te here ki runga i te hunga e tuku mahi mai ana ki a tātou ki te whai kawenga mō aua mahi. Ka pšrongo ngā kamupene inihua, ngā kaunihera me ngā kaipupuri rawa nui ake i ā rātou ake tukunga, ā, ka whai wāhi ngā mahi e utua ana e rātou kia mahia e tētahi kaikirimana ki aua tatauranga. He nui kē atu te wāriu ki a rātou o te hoatu i tētahi pšrongo e whakaingoa ana i āna puna kōroro, e māka ana hoki i tōna ake taumata whakapono, tēnā i tētahi tau matua kau noa iho, ā, he mea tēnei e kore rawa e taea e te nuinga o ngā kaikirimana te whakaputa.

Te Wāhanga Pānga Taiao

Kei roto tēnei wāhanga i te kaihanga i te taha o ngā wāhanga haumaru, ā, he ōrite tonu tana mahi, he tatau anō tōna, tōna ake mara **Notes / Assumptions / Description** (Ngā Tuhinga / Ngā Whakapae / Whakaahuatanga), me tētahi rarangi mō ia rahinga e whakaaturia ana e te pšrongo.

Kei ia rarangi he aha taua mea, e hia tōna rahi, me te tauwehe tukunga kua pā ki taua mea:

- **Tūemi** - te rauemi, te nekeneke, te ngohe, te rerenga para rānei. Tīmata ki te patopato, ā, ka tono mai a *Apollo* i ngā tāurunga ōrite mai i tā mātou rārangi tauwehe (factor catalogue), hei whakakī i te toenga o te rarangi māu.
- **Wāhanga** - ko tēhea wāhanga o te oranga o te mahi e hāngai ana ki taua rarangi: `A1-A3 Product` mō te hanga i ngā rauemi, `A4 Transport` mō te kawe i aua rauemi ki te pae mahi, `A5 Construction` mō ngā miihini pae mahi, te hiko me ngā haerenga a ngā kaimahi, me te `C1-C4 End of life` mō ngā mea i tangohia mai me te wāhi i kawea ai. Koinei ngā wāhanga e whakamahia ana e te paerewa o te ao, nō reira ka uru tōtika atu ngā tau ki roto i ngā pšrongo a te kaiwhiwhi tonu.
- **Rahi** me te **Wae** - e hia te nui, i runga i te wae e whanganga ai te tauwehe.
- **Tauwehe** - ngā kirokaramu o te CO2e ka tukuna mō ia wae.
- **Puna** - nō hea mai taua tauwehe, kia taea ai te whai i te takenga mai o ia tatauranga i te pšrongo whakamutunga.
- **Kōeke** - te pai o ngā raraunga o raro, mai i te `A` heke iho ki te `D`.
- **Wāhi kawe** - mō ngā mea katoa i tangohia mai i te pae mahi, i riro ki hea. Ko ngā mea katoa hāunga te landfill (puni para) rānei, te cleanfill (whakakī mā) rānei, ka kiia kua whakaangahia kētia.
- **Mōrearea** - tohua tēnei mō te āpētoto, te peita mata, te rākau kua rongoāhia rānei, ka tāia ki tō rātou ake tūtohi me tā rātou aromatawai me te whare whakahaere ka whiwhi i aua mea.
- **Pūtake** - he tuhinga poto mō te takenga mai o te rahinga, ka tāia ki raro i te rarangi kia taea ai e te kaipānui te whakatau.
- **kg CO2e** - he mea tatau māu mai i te rahinga me te tauwehe. Kāore e taea te whakatika, nō reira e kore rawa tētahi tauwehe kua whakatikaina e waiho i tētahi tatauranga tawhito ki muri.

I raro i te tūtohi, ka whakaatu tētahi whakarāpopototanga i te tapuwae haere tonu, te awhe whakatau tata, te wāhanga o ngā rauemi i tangohia mai i āraia atu i te puni para, me te whakawehenga puta noa i ngā wāhanga e whā. Ka whakahou tonu i a koe e whakatika ana, kia kite ai koe i te pānga o tētahi whakatikatika i mua i tō whakaputa.

Nō Hea Mai Ngā Rarangi

Ina hanga mahere a *Apollo*, māna tonu tēnei wāhanga e whakakī māu. Ko ngā mea katoa ka taea te taunaki e te whakahua utu *Domino* kua honoa mai, ka whakawhitia tōtika mai - ngā rauemi i whakahuatia te utu, ngā skips (ipu para nui), ngā tōnetanga para. Ka ahu mai ngā haerenga a ngā kaimahi i te Work Breakdown Structure (hanganga whakarōpū mahi), i te mea kua mōhio kē te hōtaka e hia ngā tāngata kei te pae mahi, ā, mō te hia te roa, ā, ka ahu mai te tawhiti tuku i te tawhiti taraiwa tūtururu i waenga i te tari me te rawa.

Ina whakaritea te utu o tētahi rārangi kōrero utu ki tētahi wae rerekē mai i tō te tauwehe, ka waihanga tonu a *Apollo* i te rārangi engari ka waiho noa iho te rahinga kia wātea, kaua kē he whakahuri māu, ā, ka whakahekea te kōeke o taua rārangi. He mea ā-whakaaro tēnā: he kino kē atu te rahinga i tito noa i roto i tētahi tuhinga ka tukuna ki te kaiinihua i tētahi e ngaro noa ana.

Ka taea hoki e koe te whakamahi i te `Generate` i te wāhanga i ngā wā katoa kia marohitia mai ai e *Apollo* ngā rārangi e kore e kitea e tētahi kōrero utu - ngā plant hours (ngā hāora mīhini), te hiko o te pae mahi, ngā skip movements (ngā nekehanga ipu parapara) - ka tae mai kua tohua he whakatau tata hei arowhai māu.

Tuhipoka: arotakengia ngā seeded rows (ngā rārangi i whakatōkia) i mua i te whakaputa. He pūwāhi tīmata noa iho ērā i ahu mai i te kōrero utu me te hōtaka mahi, ehara i te pūkete kua oti te whanganga, ā, ko te tangata e whakaputa ana i te pūrongo te tangata e tū ana ki muri i āna tatauranga.

Te Whakapai Ake i Ngā Tau

Mā te **Grade** (kōeke) kei ia rārangi e whakatau te taumata pono e kīia ana e te pūrongo kua oti. Ka rere ngā kōeke mai i te `A`, he tauwehe i tangohia mai i tā tētahi hua ake whakapuakitanga, heke iho ki te `D`, he whakatau tata. Ka tātaitia e te pūrongo tana estimate band (rohenga whakatau tata) ka whakaputaina mai i ēnei, he mea whakataurite ki te rahi o te koha a ia rārangi, nō reira, mā te whakakapi i tētahi `D` i tō rārangi nui rawa ki tētahi tau tūturu mai i tētahi weighbridge docket (tīkiti pae pauna), mai i tētahi kaiwhakarato rānei, ka whakawhāitihia taua rohenga i te whārangi o mua. Kāore e tino panonitia taua rohenga e ngā rārangi he iti ngā tau.

Te Wai me te Tukunga o te Pae Mahi

Ka tuhia te wai ki roto i te site configuration (whirihoranga pae mahi), kaua kē ki te tēpu, i te mea i runga i tētahi reinstatement job (mahi whakatika), he onge noa te whanganga i te wai mā te mita, ā, ka whakaiti tētahi tau i tito noa i te mana o ngā rārangi kei runga ake. Tuhia nō hea te wai o te pae mahi, ngā pānuitanga mita katoa kei a koe, me ngā sediment and discharge controls (ngā kaupare parataiao me ngā tukunga) kei te tū, ā, ka whakahuatia e te pūrongo aua mea e ai ki ōna āhua tonu.

Te Pūrongo Kua Oti

Ka whakaputaina te pūrongo i te taha o ngā tuhinga haumaru i ngā wā katoa ka whakamahi koe i te **Publish SSSP**, ā, ka puta hei rārangi motuhake i roto i te publish drawer (kātohero whakaputa). He mea ā-whakaaro te waiho i waho o te **Combined H&S Pack** - ka tukuna ki tētahi kaipānui rerekē mō tētahi take rerekē, nō reira ka haere takitahi.

Ka tīmata mā ngā rawa i nekehia e te mahi: ngā mea i tukuna ki te pae mahi ki te whakataurite ki ngā mea i tangohia atu, ā, e hia o ngā mea i tangohia atu kāore i tukua ki te rua parahanga (landfill). Ka whai mai te tatauranga mō te hau kati mahana, me tōna rohenga whakatau tata me ngā puna paerewa, puna tauwehe hoki i hangaia mai ai. Whai muri i tēnā ko ngā tēpu kei muri i a ia, ia wāhanga, ia wāhanga, kātahi ko ngā para me ngā rawa mōrearea, te tauākī wai, ngā mahi whakaiti i tutuki tūturu i te mahi, me tētahi wāhanga tikanga mahi e whakatakoto ana i ngā mea kei roto, ngā mea kei waho, me te taumata pono o te katoa.

Ka whakaaturia motuhake ngā tukunga i karohia mā te huri kē i ngā rawa mai i te rua para, ā, kāore rawa e tangohia mai i te tapeke. Ka noho gross (kerekere) tonu te whika e pūrongotia ana, nō te mea koirā te tau e hiahiatia ana e te kaiwhiwhi mēnā kei te whakauru rātou i taua tau ki roto i ā rātou ake pūrongo.

Mēnā he hē te āhua o tētahi whika i roto i te pūrongo kua oti, whakatikaina te rārangi i roto i te builder (kaihanga) ka whakaputa anō, kaua e whakarerekē noa i te tuhinga, kia ōrite tonu ai ngā mea ka hoatu e koe ki ngā mea kei roto i te

mahere. Mēnā kāore tētahi mea e whakaputaina, mēnā rānei e ngaro ana tētahi rawa e whakamahi pinepine ana koe i te catalogue (kātāroki), whakapā mai ki support@samconsulting.co.nz.