


Proposed Changes to SNP Outlined in Schedule J of 2AM-DOH1323

Schedule J. Conditions Applying to General and Aquatics Effects Monitoring

Table 1 MONITORING GROUPS

| Group | Analytical Parameters | Measurement Units | Colour Reference |
|----------------------------------|--------------------------|-----------------------------------|---|
| General (G) | pH | pH units |  |
| | TSS | mg/L | |
| Nutrients (N1) | Total Ammonia-N | mg-N/L | Blue |
| | Nitrate-N | | |
| | Nitrite-N | | |
| Nutrients (N2) | Orthophosphate-P | mg/L | Orange |
| | Total Phosphate-P | | |
| Total Metals - Unfiltered (MT) | T-Aluminum | mg/L | Green |
| | T-Arsenic | | |
| | T-Copper | | |
| | T-Iron | | |
| | T-Nickel | | |
| | T-Lead | | |
| | T-Zinc | | |
| Dissolved Metals - Filtered (MD) | D-Iron | mg/L | Purple |
| | D-Copper | | |
| | D-Arsenic | | |
| | D-Zinc | | |
| | D-Cadmium | | |
| | D-Nickel | | |
| Biological (B) | Biological Oxygen Demand | mg/L | Yellow |
| | Fecal Coliforms | CFU/100 mL (colony forming units) | |
| Hydrocarbons (HC) | Total Oil and Grease | mg/L | Dk. Green |
| | T-Lead | | |
| | Benzene | | |
| | Toluene | | |
| | Ethyl-Benzene | | |
| Discharge (D) | Flow | m ³ /day | Grey |
| | Volume | m ³ | |
| | Duration | Day | |



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GROUP REFERENCE

| STATION PARAMETER | TL- 1 | TL- 2 | TL- 3 | TL- 4 | TL- 5 | TL- 6 | TL- 7 | TL- 8 | TL- 9 | TL- 10 | TL- 11 | TL- 12 | ST- 1 | ST- 2 | ST- 3 | ST- 4 | ST- 5 | ST- 6 | ST- 7 | ST- 7a | ST- 8 | ST- 9 | ST- 10 |
|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|-----------|
| pH | x | x | x | x | x | | | x | x | x | x | x | x | x | x | x | x | x | x | | x | x | |
| Electrical Conductivity | | | | | | | | | | | x | | | | | | | | | | | | |
| TSS | x | x | x | x | x | | | x | | x | | x | x | x | x | x | x | x | x | | x | x | x |
| TDS | x | x | x | x | | | | | | x | | | | | | | | | | | | | |
| Cl | x | x | x | x | | | | | | x | | | | x | | | | | | | | | |
| Free CN | x | x | x | x | x | | | x | | x | | | | | | | | | x | x | | | |
| Total CN | x | x | x | x | x | | | x | x | x | x | | x | x | x | | | | x | x | | | |
| WAD CN | | | | | x | | x | | x | | x | | | | | | | | | | | | |
| Total Ammonia-N | x | x | x | x | x | | | x | | x | x | x | x | x | x | x | | | x | x | | | |
| Nitrate-N | x | x | x | x | x | | | x | | x | x | x | x | x | | | | | x | x | | | |
| Nitrite-N | x | x | x | x | x | | | x | | x | x | x | x | x | | | | | x | x | | | |
| Sulphate | | | | | x | | | | | | x | x | x | x | x | | | | | | | | |
| Orthophosphate-P | x | x | x | x | | | | x | | x | | | | | | | | | x | x | | | |
| Total Phosphate-P | x | x | x | x | | | | x | | x | | | | | | | | | x | x | | | |
| T-Al | x | x | x | x | x | x | | x | | x | | | x | x | x | | | | x | x | | | |
| T-Ag | x | x | x | x | | | | x | | x | | | | | | | | | x | x | | | |
| T-As | x | x | x | x | x | x | | x | | x | | | x | x | x | | | | x | x | | | |
| T-Ca | x | x | x | x | | | | | | x | | | | | | | | | x | x | | | |
| T-Cd | x | x | x | x | x | x | | x | | x | | | | | | | | | x | x | | | |
| T-Cr | x | x | x | x | x | x | | x | | x | | | | | | | | | x | x | | | |
| T-Cu | x | x | x | x | x | x | | x | | x | | | x | x | x | | | | x | x | | | |
| T-Fe | x | x | x | x | x | x | | x | | x | | | x | x | x | | | | x | x | | | |
| T-Hg | x | x | x | x | x | x | | x | | x | | | | | | | | | x | x | | | |
| T-K | x | x | x | x | | | | | | x | | | | | | | | | | | | | |
| T-Mo | x | x | x | x | x | x | | x | | x | | | | | | | | | x | x | | | |



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| STATION PARAMETER | TL- 1 | TL- 2 | TL- 3 | TL- 4 | TL- 5 | TL- 6 | TL- 7 | TL- 8 | TL- 9 | TL- 10 | TL- 11 | TL- 12 | ST- 1 | ST- 2 | ST- 3 | ST- 4 | ST- 5 | ST- 6 | ST- 7 | ST- 7a | ST- 8 | ST- 9 | ST- 10 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|-----------|
| T-Mg | x | x | x | x | | | | | | x | | | | | | | | | | | | | |
| T-Na | x | x | x | x | | | | | | x | | | | | | | | | | | | | |
| T-Ni | x | x | x | x | x | x | | x | | x | | | x | x | x | | | | x | x | | | |
| T-Pb | x | x | x | x | x | x | | x | | x | | | x | x | x | x | x | x | x | x | | | |
| T-Se | x | x | x | x | x | x | | x | | x | | | | | | | | | x | x | | | |
| T-Zn | x | x | x | x | x | x | | x | | x | | | x | x | x | | | | x | x | | | |
| T-Tl | x | x | x | x | | | | x | | x | | | | | | | | | x | x | | | |
| T-Radium 226 | | | | x | | | | | | | | | | | | | | | | | | | |
| Dissolved Oxygen & Redox Potential | x | | | | | | | | | x | | | | | | | | | | | | | |
| Acute Lethality | x | | | x | | | | | | | | | | | | | | | | | | | |
| Flow | x | x | x | x | x | | | x | | | | x | x | x | x | x | x | x | x | x | x | x | |
| Volume | x | x | x | x | x | | | x | | | | x | x | x | x | x | x | x | x | x | x | x | |
| Water Level | x | | | | | | | | | | | | | | | | | | | | | | |
| Total Metals by ICP-MS* | | | | | x | | | | | | | x | | x | | | | | | | | | |
| Total Metals ICP-MS including Sulphur | | | | | | x | x | | | | | | | | | | | | | | | | |
| Trace Metals by ICP-MS | | | | | | | | | | | x | | | | | | | | | | | | |
| Alkalinity | | | | | | | | | | | x | | | x | | | | | | | | | |
| Acidity | | | | | | | | | | | x | | | | | | | | | | | | |
| Dissolved Fe | | | | | | | | | x | | | | | | | | | | | | | | |
| D-Cu | | | | | | | | | x | | | | | | | | | | | | | | |
| D-As | | | | | | | | | x | | | | | | | | | | | | | | |
| D-Zn | | | | | | | | | x | | | | | | | | | | | | | | |
| D-Cd | | | | | | | | | x | | | | | | | | | | | | | | |
| D-Ni | | | | | | | | | x | | | | | | | | | | | | | | |



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| STATION PARAMETER | TL- 1 | TL- 2 | TL- 3 | TL- 4 | TL- 5 | TL- 6 | TL- 7 | TL- 8 | TL- 9 | TL- 10 | TL- 11 | TL- 12 | ST- 1 | ST- 2 | ST- 3 | ST- 4 | ST- 5 | ST- 6 | ST- 7 | ST- 7a | ST- 8 | ST- 9 | ST- 10 |
|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|-----------|
| BOD ₅ | | | | x | | | | | | | | | | | | | | | x | x | x | x | |
| Fecal Coliforms | | | | x | | | | | | | | | | | | | | | x | x | x | x | |
| Cyanate | | | | | x | | x | | | | | | | | | | | | | | | | |
| Thiocyanate | | | | | x | | x | | | | | | | | | | | | | | | | |
| Moisture content | | | | | | | x | | | | | | | | | | | | | | | | |
| Total Oil and Grease | | | x | | | | | | | | | | x | x | x | x | x | x | x | x | x | x | |
| Benzene | | | | | | | | | | | | | | | | x | x | x | | | | | |
| Toluene | | | | | | | | | | | | | | | | x | x | x | | | | | |
| Ethyl-Benzene | | | | | | | | | | | | | | | | x | x | x | | | | | |
| Tonnage | | | | | | x | x | | | | | | | | | | | | | | | | |
| Chemical Oxygen Demand | | | | | | | | | x | | | | | | | | | | | | | | |
| Total Inorganic Carbon | | | | | | x | x | | | | | | | | | | | | | | | | |

* (definition: metals consistent with baseline data previously collected and any other metals of current interest)



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Table 2: MONITORING REQUIREMENTS

| Station | Description | Phase | Monitoring Parameters | Frequency during Care and Maintenance <u>prior</u> to any deposit of Tailings to the TIA | Frequency (during Operations and any time after initial deposit of Tailings to the TIA) |
|---------|--|---|---|---|---|
| TL-1 | TIA at the Reclaim Pump Barge - depth 1.5m below surface | Operation, Closure, Post Closure (for up to nine (9) years after cessation of mining) | G, N1, N2, MT and TDS, Cl, Free CN, Total CN, T-Ag, T-Ca, T-Cd, T-Cr, T-Hg, T-K, T-Mo, T-Mg, T-Na, T-Se, T-Tl | Three times per week for one (1) week prior to discharge and two times per week for two (2) weeks after discharge commences, then reducing to once per week during remainder of annual discharge | Every second day for two (2) weeks prior to discharge and for two (2) weeks after discharge commences, then reducing to once per week during remainder of annual discharge period |
| | | | Dissolved Oxygen and Redox Potential | Every second month | Every second month |
| | | | Acute Lethality | Once prior to discharge | Once prior to discharge |
| | | | D | Daily during periods of discharge | Daily during periods of discharge |
| TL-2 | Doris Outflow Creek - upstream (at the flow monitoring station adjacent to the bridge) | Operation, Closure, Post Closure (for up to nine (9) years after cessation of mining) | G, N1, N2, MT and TDS, Cl, Free CN, Total CN, T-Ag, T-Ca, T-Cd, T-Cr, T-Hg, T-K, T-Mo, T-Mg, T-Na, T-Se, T-Tl, | <u>When discharging to the creek,</u> One One duplicate sample collected prior to discharge; single samples collected twice per week for two(2) weeks after discharge commences, then reducing to once per week | <u>When discharging to the creek,</u> Every every second day for two (2) weeks prior to discharge and for two (2) weeks after discharge commences, then reducing to once per week during remainder of annual discharge period |
| | | | D | Daily during periods of discharge from Tail Lake <u>to the creek</u> | Daily during periods of discharge from Tail Lake <u>to the creek</u> |



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|------|--|---|--|--|--|
| TL-3 | Doris Outflow Creek (~80m downstream of the base of the waterfall) | Operation, Closure, Post Closure (for up to nine (9) years after cessation of mining) | G, N1, N2, MT and TDS, Cl, Free CN, Total CN, T-Ag, T-Ca, T-Cd, T-Cr, T-Hg, T-K, T-Mo, T-Mg, T-Na, T-Se, T-Tl, Total Oil and Grease | <u>When discharging to the creek.</u> One duplicate sample collected prior to discharge; single samples collected twice per week for two(2) weeks after discharge commences, then reducing to once per week during the remainder of annual | <u>When discharging to the creek.</u> every Every second day for two (2) weeks prior to discharge and for two (2) weeks after discharge commences, then reducing to once per week during remainder of annual discharge period |
| | | | D | Daily during periods of discharge from Tail Lake <u>to the creek</u> | Daily during periods of discharge from Tail Lake <u>to the creek</u> |
| TL-4 | TIA Discharge End-of-Pipe (taken at a valve at the discharge end of the transfer pump pipeline <u>at either Doris Creek or immediately prior to entry into Roberts Bay</u>) | Operation, Closure, Post Closure (for up to nine (9) years after cessation of mining) | G, N1, N2, MT, and TDS, Cl, Free CN, Total CN, T-Ag, T-Ca, T-Cd, T-Cr, T-Hg, T-K, T-Mo, T-Mg, T-Na, T-Se, T-Tl, T-Radium 226 | Weekly during periods of discharge | Weekly during periods of discharge |
| | | | Acute Lethality | Once approximately midway through annual discharge | Monthly during discharge |
| | | | B | Monthly | Monthly |
| | | | D | Daily during periods of discharge from Tail Lake | Daily during periods of discharge from Tail Lake |
| TL-5 | Combined Tailings Discharged into TIA (Water Component) taken from a valve in the mill at the discharge end of the mill tailings pumps | Operations | G, N1, MT, and Free CN, Total CN, WAD CN, Sulphate, T-Cd, T-Cr, T-Hg, T-Mo, T-Se, and Total Metals by ICP-MS | | Daily initially, reduced to weekly after 3 months of operation |
| | | | Cyanate and Thiocyanate | | Quarterly |
| | | | D | | Daily initially, reduced to weekly after 3 months of operation |



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|------|--|------------|---|--|--|
| TL-6 | Combined Tailings Discharged into TIA (Solid Component) taken from a valve in the mill at the discharge end of the mill tailings pumps | Operations | Tonnage of dry tailings solids | | Monthly during periods of discharge |
| | | | MT and T-Cd, T-Cr, T-Hg, T-Mo, T-Se, | | Sampled on a weekly basis with analyses carried out monthly on a composite sample of the TL-6 weekly samples |
| | | | Total Inorganic Carbon and Total Metals by ICP-MS (must include Sulphur) | | |
| TL-7 | Filtered Cyanide Leach Residue sent underground as backfill | Operations | Dry tonnage of CN leach residue sent underground, WAD CN, Total Inorganic Carbon, Total Metals by ICP-MS (including Sulphur), Moisture content of backfill trucked underground, | | Monthly |
| | | | Cyanate and Thiocyanate | | Quarterly |
| TL-8 | Reclaim water pumped from TIA to Mill Process water tank taken from a valve at the discharge end of the reclaim water pump | Operation | G, N1, N2, MT and Free CN, Total CN, T-Ag, T-Cd, T-Cr, T-Hg, T-Mo, T-Se, T-Tl, | | Monthly |
| | | | D | | Daily during periods of pumping |
| TL-9 | Barren Bleed Solution sent to tailings taken from a sampling valve within the mill | Operations | MD and pH, Total and WAD CN, Chemical Oxygen Demand, | | Monthly |



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|-------|--|---|---|---|--|
| TL-10 | Water Column in deepest portion of Tail Lake and at a location away from the TIA Reclaim water floating pump house, sampled at surface, mid-depth and near bottom. | Operation, Closure, Post Closure (for up to nine (9) years after cessation of mining) | G, N1, N2, MT and TDS, Cl, Free CN, Total CN, T- Ag, T-Ca, T-Cd, T-Cr, T-Hg, T-K, T-Mo, T-Mg, T-Na, T-Se, T-Tl, Dissolved Oxygen and Redox Potential | <u>Monthly during discharge starting two (2) weeks prior to start of discharge season</u> | Monthly during discharge starting two (2) weeks prior to start of discharge season |
| TL-11 | Seepage from underground backfilled stopes | Operations | Visual inspection for seepage. If seepage present parameters to be monitored include N1 and pH, EC, Trace metals by ICP-MS, Alkalinity, Acidity, Sulphate, Total and WAD CN, | | Survey Twice annually |
| TL-12 | Underground Minewater - water pumped from the underground mine into the Mill tailings pump box | Operations | G, N1 and Sulphate and Total Metals by ICP-MS | | Monthly |
| | | | D | | Monthly during pumping |
| ST-1 | Discharge from Sedimentation Pond taken at a depth of ~0.25 m | Construction, Operation, Closure | G, N1, MT and Total Sulphate, Total CN, Total Oil and Grease, | <u>Once before any discharge, daily when discharging onto the tundra</u> | Once before any discharge, daily when discharging onto the tundra |
| | | | D | <u>Daily during periods of discharge</u> | Daily during periods of discharge |



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|-----------------|--|----------------------------------|---|---|---|
| ST-2 | Discharge from Pollution Control Pond taken at a depth of ~0.25m | Construction, Operation, Closure | G, N1, MT and Total Sulphate, Total CN, Total Oil and Grease, Alkalinity, Chloride, and Total Metals by ICP-MS | Monthly during open water season | Monthly during open water season |
| | | | D | Daily during periods of discharge | Daily during periods of discharge |
| ST-3 | Discharge from Non-hazardous Landfill pollution control sump | Construction, Operation, Closure | G, MT and Total Ammonia-N, Total Sulphate, Total CN, Total Oil and Grease, | Once before any discharge, daily when discharging onto the tundra | Once before any discharge, daily when discharging onto the tundra |
| | | | D | Daily during periods of discharge | Daily during periods of discharge |
| ST-4 | Discharge from Landfarm sump | Construction, Operation, Closure | G, HC | Once before any discharge, daily when discharging onto the tundra | Once before any discharge, daily when discharging onto the tundra |
| | | | D | Daily during periods of discharge | Daily during periods of discharge |
| ST-5 | Discharge from the Plant Site Fuel Storage and Containment Area Sump | Construction, Operation, Closure | G, HC | Once before any discharge, daily when discharging onto the tundra | Once before any discharge, daily when discharging onto the tundra |
| | | | D | Daily during periods of discharge | Daily during periods of discharge |
| ST-6a And ST-6b | Discharge from the Roberts Bay Fuel Storage and Containment Area Sumps | Construction, Operation, Closure | G, HC | Once before any discharge, daily when discharging onto the tundra | Once before any discharge, daily when discharging onto the tundra |
| | | | D | Daily during periods of discharge | Daily during periods of discharge |



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|-------------|--|----------------------------------|--|--|--|
| ST-7 | Freshwater pumped from Doris Lake taken from a valve on the discharge end of the freshwater pump | Construction, Operation, Closure | G, N1, N2, MT and Free CN, Total CN, T-Ag, T-Cd, T-Cr, T-Hg, T-Mo, T-Se, T-Tl, and Total Oil and Grease | <u>Monthly during periods of pumping</u> | Monthly <u>during periods of pumping</u> |
| | | | B | | |
| | | | D | | Monthly during periods of pumping |
| ST-7a (new) | Freshwater pumped from the Windy Lake freshwater intake (Appendix H of the Application), | Construction, Operation, Closure | G, N1, N2, MT and Free CN, Total CN, T-Ag, T-Cd, T-Cr, T-Hg, T-Mo, T-Se, T-Tl, and Total Oil and Grease | <u>Monthly during periods of pumping</u> | Monthly <u>during periods of pumping</u> |
| | | | B | | |
| | | | D | | Monthly during periods of pumping |
| ST-8 | Discharge from Wastewater Treatment Plant bio-membrane | Construction, Operation, Closure | G, B, and Total Oil and Grease | <u>Monthly during periods of pumping</u> | Monthly <u>during periods of pumping</u> |
| | | | Location of discharge | | Monthly during periods of discharge |
| | | | D | | Monthly during periods of discharge |
| ST-9 | Runoff from Wastewater Treatment Plant discharge - downstream of wastewater treatment plant discharge point and just prior to flow entering Doris Lake | Construction | G, B, and Total Oil and Grease | Monthly | Monthly |



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|---------------------|--|-----------------------------------|---|---|---|
| ST-10 | Site Runoff from Sediment Controls | Construction, Operations, Closure | TSS | Daily during periods of discharge | Daily during periods of discharge |
| ST-11 (new) | Discharge from the Reagent and Cyanide Storage Facility Sumps. | Construction, Operation, Closure | G, HC and D | Once before any discharge, daily when discharging onto the tundra | Once before any discharge, daily when discharging onto the tundra |
| Monitoring Strip #1 | Shoreline (location provided in S4 DWG T-14 dated March 2007) | Construction, Operations, Closure | Erosion via bathymetric survey of the underwater section of the monitoring strip down to the original Tailings Impoundment Area water level of 28.3 m | Annually | Annually |
| Monitoring Strip #2 | Shoreline (location provided in S4 DWG T-14 dated March 2007) | Construction, Operations, Closure | Erosion via bathymetric survey of the underwater section of the monitoring strip down to the original Tailings Impoundment Area water level of 28.3 m | Annually | Annually |
| Monitoring Strip #3 | Shoreline (location provided in S4 DWG T-14 dated March 2007) | Construction, Operations, Closure | Erosion via bathymetric survey of the underwater section of the monitoring strip down to the original Tailings Impoundment Area water level of 28.3 m | Annually | Annually |
| Monitoring Strip #4 | Shoreline (location provided in S4 DWG T-14 dated March 2007) | Construction, Operations, Closure | Erosion via bathymetric survey of the underwater section of the monitoring strip down to the original Tailings Impoundment Area water level of 28.3 m | Annually | Annually |



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|---------------------|---|-----------------------------------|---|----------|----------|
| Monitoring Strip #5 | Shoreline (location provided in S4 DWG T-14 dated March 2007) | Construction, Operations, Closure | Erosion via bathymetric survey of the underwater section of the monitoring strip down to the original Tailings Impoundment Area water level of 28.3 m | Annually | Annually |
| Monitoring Strip #6 | Shoreline (location provided in S4 DWG T-14 dated March 2007) | Construction, Operations, Closure | Erosion via bathymetric survey of the underwater section of the monitoring strip down to the original Tailings Impoundment Area water level of 28.3 m | Annually | Annually |



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Table 3 THERMAL MONITORING

| Station | Location | Location Reference | Phase | Monitoring Parameters | Frequency Prior to Operations; During Care and Maintenance | Frequency during Operations |
|---------|---|--------------------|--------------------|-----------------------|--|-----------------------------|
| T1 | Jetty | SD4 - DWG J-01 | Operation | Temperature | | IA |
| T2 | Jetty | SD4 - DWG J-01 | Operation | Temperature | | IA |
| T4 | Beach Laydown | SD4 - DWG S-01 | Operation | Temperature | | IA |
| T5 | Fuel Storage and Containment Facility at Robert's Bay | | Operation | Temperature | | IA |
| T7 | Airstrip | SD4 - DWG S-03 | Operation | Temperature | | IA |
| T8 | Airstrip | SD4 - DWG S-03 | Operation | Temperature | | IA |
| T9 | Airstrip | SD4 - DWG S-03 | Operation | Temperature | A | A |
| T-1 | Bridge Abutment | SD4 - DWG S-12 | Operation | Temperature | D | A |
| T-2 | Bridge Abutment | SD4 - DWG S-12 | Operation | Temperature | D | A |
| DOR-1 | Camp | to be confirmed | Operation | Temperature | | IA |
| DOR-2 | Camp | to be confirmed | Operation | Temperature | D | A |
| DOR-3 | Pollution Control Pond | to be confirmed | Operation | Temperature | D | A |
| DOR-4 | Sedimentation Pond | to be confirmed | Operation | Temperature | D | A |
| DOR-5 | Float Plane Dock Laydown Area | to be confirmed | Operation | Temperature | | IA |
| DOR-6 | Road | to be confirmed | Operation | Temperature | D | A |
| DOR-7 | Road | to be confirmed | Operation | Temperature | D | A |
| DOR-8 | Road | to be confirmed | Operation | Temperature | D | A |
| DOR-9 | Road | to be confirmed | Operation | Temperature | D | A |
| DOR-10 | Road | to be confirmed | Operation | Temperature | D | A |
| SRK-53 | Shoreline | to be confirmed | Operation, Closure | Temperature | D | B |
| SRK-54 | Shoreline | to be confirmed | Operation, Closure | Temperature | | IA |



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|------------|-----------|-----------------|--------------------|-------------|---|----|
| SRK-55 | Shoreline | to be confirmed | Operation, Closure | Temperature | | IA |
| SRK-56 | Shoreline | to be confirmed | Operation, Closure | Temperature | | IA |
| SRK-57 | Shoreline | to be confirmed | Operation, Closure | Temperature | D | B |
| SRK-58 | Shoreline | to be confirmed | Operation, Closure | Temperature | D | B |
| NI1 - NI28 | North Dam | SD4 - DWG T-09 | Operation, Closure | Temperature | C | C |
| SI2 -SI22 | South Dam | SD4 - DWG T-10 | Operation, Closure | Temperature | C | C |

A - Monthly, increasing if warming trend is observed

B – Monthly

C - Monthly readings taken manually; data loggers installed to collect continuous data at key locations. Frequency maintained until dam reaches pseudo steady state conditions. The frequency may then be reduced but will have to coincide with the peaks of the annual climatic cycles

D – Annually at the end of summer when the active layer should be at maximum thickness.

AWM – Monthly during periods of active water management (Prior to Operations and during Care and Maintenance)

IA – Inactive