## SIGNIFICANCE RATING SCALE

|   | Rating    | Description   |
|---|-----------|---|
| 5 | VERY HIGH | Of the highest order possible within the bounds of impacts which could occur. In the case of adverse impacts: there is no possible mitigation and/or remedial activity which could offset the impact. In the case of beneficial impacts, there is no real alternative to achieving this benefit.  |
| 4 | HIGH      | Impact is of substantial order within the bounds of impacts, which could occur. In the case of adverse impacts: mitigation and/or remedial activity is feasible but difficult, expensive, time-consuming or some combination of these. In the case of beneficial impacts, other means of achieving this benefit are feasible but they are more difficult, expensive, time-consuming or some combination of these.   |
| 3 | MODERATE  | Impact is real but not substantial in relation to other impacts, which might take effect within the bounds of those which could occur. In the case of adverse impacts: mitigation and/or remedial activity are both feasible and fairly easily possible. In the case of beneficial impacts: other means of achieving this benefit are about equal in time, cost, effort, etc.   |
| 2 | LOW       | Impact is of a low order and therefore likely to have little real effect. In the case of adverse impacts: mitigation and/or remedial activity is either easily achieved or little will be required, or both. In the case of beneficial impacts, alternative means for achieving this benefit are likely to be easier, cheaper, more effective, less time consuming, or some combination of these.   |
| 1 | VERY LOW  | Impact is negligible within the bounds of impacts which could occur. In the case of adverse impacts, almost no mitigation and/or remedial activity is needed, and any minor steps which might be needed are easy, cheap, and simple. In the case of beneficial impacts, alternative means are almost all likely to be better, in one or a number of ways, than this means of achieving the benefit. Three additional categories must also be used where relevant. They are in addition to the category represented on the scale, and if used, will replace the scale. |
| 0 | NO IMPACT | There is no impact at all - not even a very low impact on a party or system.  |

## SPATIAL RATING SCALE

| Ratir | ng               | Description   |
|-------|------------------|---|
| 5     | Global/National  | The maximum extent of any impact.   |
|       | Regional/Provinc | The spatial scale is moderate within the bounds of impacts possible, and will be felt at a regional scale |
| 4     | ial              | (District Municipality to Provincial Level).  |
| 3     | Local            | The impact will affect an area up to 5 km from the proposed route corridor.                               |
| 2     | Study Area       | The impact will affect a route corridor not exceeding the boundary of the corridor.                       |
| 4     | Isolated Sites / | The impact will effect an eyes as his say than the consist of   |
| 1'    | proposed site    | The impact will affect an area no bigger than the servitude.  |

## TEMPORAL RATING SCALE (DURATION)

| LLIVIE  | ONAL NATING SCALL | (DOMATION)   |  |  |  |
|---|-------------------|--|--|--|--|
| Ratin   | g                 | Description  |  |  |  |
| 1   | Incidental        | The impact will be limited to isolated incidences that are expected to occur very sporadically.            |  |  |  |
| 2   | Short-term        | The environmental impact identified will operate for the duration of the construction phase or a period of |  |  |  |
| 2   | Short-term        | less than 5 years, whichever is the greater.   |  |  |  |
| 3   | Medium term       | The environmental impact identified will operate for the duration of life of the line.                     |  |  |  |
| 4   | Long term         | The environmental impact identified will operate beyond the life of operation.                             |  |  |  |
| 5 Permanent The environmental impact will be permanent. |                   |  |  |  |  |

# DEGREE OF PROBABILITY

| Rating | Description                         |
|--------|-------------------------------------|
| 1      | 1 Practically impossible            |
| 2      | 2 Unlikely                          |
| 3      | Could happen                        |
| 4      | Very Likely                         |
|        | It's going to happen / has occurred |

#### DEGREE OF CERTAINTY

| DEGREE OF CER | IAINTY   |
|---------------|--|
| Rating        | Description  |
| Definite      | More than 90% sure of a particular fact.   |
| Probable      | Between 70 and 90% sure of a particular fact, or of the likelihood of that impact occurring. |
| Possible      | Between 40 and 70% sure of a particular fact or of the likelihood of an impact occurring.    |
| Unsure        | Less than 40% sure of a particular fact or the likelihood of an impact occurring.            |
| Can't know    | The consultant believes an assessment is not possible even with additional research.         |

Impact Risk = (SIGNIFICANCE + Spatial + Temporal) / 3 X Probability / 5

| Rating    | Impact class | Description |
|-----------|--------------|-------------|
| 0.1 – 1.0 | 1            | Very Low    |
| 1.1 – 2.0 | 2            | Low         |
| 2.1 – 3.0 | 3            | Moderate    |
| 3.1 – 4.0 | 4            | High        |
| 4.1 – 5.0 | 5            | Very High   |

### ALTERNATIVE:

|        |   | ALTERNATIVE:                      |                                    |                                 |                                      |                               |                      |                 |                                   |                                    |  |                               |                                      |                      |                 |                                   |                                    |                                 | - "                             |                                      |                      |                 |
|--------|---|-----------------------------------|------------------------------------|---------------------------------|--------------------------------------|-------------------------------|----------------------|-----------------|-----------------------------------|------------------------------------|--|-------------------------------|--------------------------------------|----------------------|-----------------|-----------------------------------|------------------------------------|---------------------------------|---------------------------------|--------------------------------------|----------------------|-----------------|
|        |   |                                   | •                                  | Sit                             | te 1                                 |                               |                      |                 |                                   |                                    | Site 3                                 | 3A + 3B                       |                                      |                      |                 |                                   | •                                  | "No                             | -Go"                            |                                      |                      |                 |
|        | ENVIRONMENTAL ELEMENT   | Risdual<br>Direction of<br>Impact | Residual<br>Degree of<br>Certainty | Project Impact -<br>Unmitigated | <b>Project Impact</b> -<br>Mitigated | Status Quo<br>Baseline Impact | Cumulative<br>Impact | Residual Impact | Risdual<br>Direction of<br>Impact | Residual<br>Degree of<br>Certainty | <b>Project Impact</b> -<br>Unmitigated | Project Impact -<br>Mitigated | <b>Status Quo</b><br>Baseline Impact | Cumulative<br>Impact | Residual Impact | Risdual<br>Direction of<br>Impact | Residual<br>Degree of<br>Certainty | Project Impact -<br>Unmitigated | Project Impact -<br>Unmitigated | <b>Status Quo</b><br>Baseline Impact | Cumulative<br>Impact | Residual Impact |
| CODE:  |   |                                   |                                    |                                 |                                      |                               |                      |                 |                                   |                                    |  |                               |                                      |                      |                 |                                   |                                    |                                 |                                 |                                      |                      |                 |
|        | CLOSURE PHASE   |                                   |                                    |                                 |                                      |                               |                      |                 |                                   |                                    |  |                               |                                      |                      |                 |                                   |                                    |                                 |                                 |                                      |                      |                 |
| G-3    | Geology   | Negative                          | Probable                           | 0                               | 0                                    | 3.7                           | 3.7                  | 3.7             | Negative                          | Probable                           | 0                                      | 0                             | 3.7                                  | 3.7                  | 3.7             |                                   |                                    | 0                               | 0                               | 3.7                                  | 3.7                  | 3.7             |
|        |   | -9                                |                                    | NO                              | NO                                   | HIGH                          | HIGH                 | HIGH            |                                   |                                    | NO                                     | NO                            | HIGH                                 | HIGH                 | HIGH            |                                   |                                    | NO                              | NO                              | HIGH                                 | HIGH                 | HIGH            |
| T-3    | Topography  | Negative                          | Probable                           | 1.6<br>LOW                      | MOD                                  | 3.7<br>HIGH                   | 3.3<br>HIGH          | 2.7<br>MOD      | Negative                          | Probable                           | 1.6<br>LOW                             | MOD                           | 3.7<br>HIGH                          | 3.7<br>HIGH          | 2.9<br>MOD      |                                   |                                    | NO<br>NO                        | NO                              | 3.7<br>HIGH                          | 3.3<br>HIGH          | 2.7<br>MOD      |
| SLC-3  | Soil and Land Capability  | Negative                          | Probable                           | 1.9                             | 0.6                                  | 3                             | 3.7                  | 3.3             | Negative                          | Probable                           | 2.1                                    | 0.6                           | 3                                    | 3.7                  | 3.7             |                                   |                                    | 0                               | 0                               | 3                                    | 3                    | 3               |
| 320-3  | Son and Land Capability   | ivegative                         | FIODADIC                           | LOW                             | VLOW                                 |                               | HIGH                 | HIGH            | ivegative                         | FIODAble                           | MOD                                    | VLOW                          | MOD                                  | HIGH                 | HIGH            |                                   |                                    | NO                              | NO                              | MOD                                  | MOD                  | MOD             |
| SWW-3  | Surface Water and Wetlands  | Negative                          | Probable                           | 1.2<br>LOW                      | 0.5<br>VLOW                          | 3.7<br>HIGH                   | 3.7<br>HIGH          | 2.7<br>MOD      | Negative                          | Probable                           | 1.5<br>LOW                             | 0.6<br>VLOW                   | 3.7<br>HIGH                          | 3.7<br>HIGH          | 2.7<br>MOD      |                                   |                                    | NO                              | NO                              | 3.7<br>HIGH                          | 3.7<br>HIGH          | 3.7             |
| GW-3   | Groundwater   | Negative                          | Probable                           | 1.1                             | 0.5                                  | 3                             | 3.3                  | 3               | Negativa                          | Probable                           | 1.1                                    | 0.5                           | 3                                    | 3.3                  | 3               |                                   |                                    | 0                               | 0                               | 3                                    | 3                    | 3               |
| GW-3   |   | Negative                          | Probable                           | LOW                             | VLOW                                 | MOD                           | HIGH                 | MOD             | Negative                          | Probable                           | LOW                                    | VLOW                          | MOD                                  | HIGH                 | MOD             |                                   |                                    | NO                              | NO                              | MOD                                  | MOD                  | MOD             |
| TE-3   | Terrestrial Ecology (The direction of the project impact is positive, although the residual impact  | Negative                          | Probable                           | 1                               | 1.5                                  | 3                             | 3                    | 2.7             | Negative                          | Probable                           | 1                                      | 1.5                           | 3                                    | 3.3                  | 3               |                                   |                                    | 0                               | 0                               | 3                                    | 3                    | 3               |
|        | remains negative)   |                                   |                                    | VLOW                            | LOW                                  | MOD                           | MOD                  | MOD             |                                   |                                    | VLOW                                   | LOW                           | MOD                                  | HIGH                 | MOD             |                                   |                                    | NO                              | NO                              | MOD                                  | MOD                  | MOD             |
| AF-3   | Avifauna  | Negative                          | Definite                           | NO<br>NO                        | NO<br>NO                             | MOD                           | MOD                  | 3<br>MOD        | Negative                          | Definite                           | NO                                     | NO<br>NO                      | MOD                                  | MOD                  | MOD             |                                   |                                    | NO<br>NO                        | 0<br>NO                         | MOD                                  | MOD                  | MOD             |
|        |   |                                   |                                    | 1.3                             | 0.8                                  | 3.3                           | 3.3                  | 2.7             |                                   |                                    | 1.3                                    | 0.8                           | 3.3                                  | 3.3                  | 2.7             |                                   |                                    | 0                               | 0                               | 3.3                                  | 3.3                  | 2.7             |
| AQ-3   | Air Quality   | Negative                          | Possible                           | LOW                             | VLOW                                 | HIGH                          | HIGH                 | MOD             | Negative                          | Possible                           | LOW                                    | VLOW                          | HIGH                                 | HIGH                 | MOD             |                                   |                                    | NO                              | NO                              | HIGH                                 | HIGH                 | MOD             |
| N-3    | Noise   | Negative                          | Probable                           | 0                               | 0                                    | 2.7                           | 2.3                  | 2.3             | Negative                          | Probable                           | 0                                      | 0                             | 2.7                                  | 2.3                  | 2.3             |                                   |                                    | 0                               | 0                               | 2.7                                  | 2.7                  | 2.7             |
|        |   |                                   |                                    | NO<br>0                         | NO<br>0                              | MOD 2.7                       | MOD 2.7              | MOD<br>1.8      |                                   |                                    | NO<br>O                                | NO                            | MOD<br>2.7                           | MOD 2.7              | 1.8             |                                   |                                    | NO<br>0                         | NO<br>0                         | MOD 2.7                              | 4.7                  | 4.7             |
| SOC-3  | Social Environment  | Positive                          | Probable                           | NO                              | NO                                   | MOD                           | MOD                  | LOW             | Positive                          | Probable                           | NO                                     | NO                            | MOD                                  | MOD                  | LOW             | Negative                          | Definite                           | NO                              | NO                              | MOD                                  | VHIGH                | VHIGH           |
| 56.3   | 5   | Do-sitely                         | D-fi-it-                           | 0                               | 0                                    | 2.7                           | 3                    | 1.8             | D. elelen                         | D. finite.                         | 0                                      | 0                             | 2.7                                  | 2.4                  | 2.4             | Manadia                           | D-fi-it-                           | 0                               | 0                               | 2.7                                  | 4.7                  | 4.7             |
| EC-3   | Economic  | Positive                          | Definite                           | NO                              | NO                                   | MOD                           | MOD                  | LOW             | Positive                          | Definite                           | NO                                     | NO                            | MOD                                  | MOD                  | MOD             | Negative                          | Definite                           | NO                              | NO                              | MOD                                  | VHIGH                | VHIGH           |
| INF-3  | Infrastructure  | Negative                          | Definite                           | 0                               | 0                                    | 2.7                           | 4.3                  | 2.7             | Negative                          | Definite                           | 0                                      | 0                             | 2.7                                  | 4.3                  | 2.7             |                                   |                                    | 0                               | 0                               | 2.7                                  | 2.7                  | 2.7             |
|        |   |                                   |                                    | NO<br>0.7                       | NO<br>3.3                            | MOD<br>3.7                    | 3.7                  | MOD<br>2.7      |                                   |                                    | 0.3                                    | NO<br>3.3                     | MOD<br>3.7                           | <b>3.7</b>           | 3.3             |                                   |                                    | NO<br>0                         | NO<br>O                         | MOD<br>3.7                           | MOD<br>3.7           | 3.3             |
| V-3    | Visual  | Negative                          | Probable                           | VLOW                            | HIGH                                 | HIGH                          | HIGH                 | MOD             | Negative                          | Probable                           | VLOW                                   | HIGH                          | HIGH                                 | HIGH                 | HIGH            |                                   |                                    | NO                              | NO                              | HIGH                                 | HIGH                 | HIGH            |
| ArCH-3 | Archaeology, Palaeongology, Cultural Heritage   | No Impact                         | Definite                           | 0                               | 0                                    | 0                             | 0                    | 0               | No Impact                         | Definite                           | 0                                      | 0                             | 0                                    | 0                    | 0               |                                   |                                    | 0                               | 0                               | 0                                    | 0                    | 0               |
| AICH   | Andread State of the Control of the | 140 IIIIpact                      | Delilite                           | NO                              | NO                                   | NO                            | NO                   | NO              | 140 iiiipact                      | Definite                           | NO                                     | NO                            | NO                                   | NO                   | NO              |                                   |                                    | NO                              | NO                              | NO                                   | NO                   | NO              |

| Reviewed By:           |  |                     |                     |           |           | 9       | ite 1    |             |             |           |           | Site    | 3A + 3B  | ,           |             |           |           | "N      | 0-G0"    |             |             |
|------------------------|--|---------------------|---------------------|-----------|-----------|---------|----------|-------------|-------------|-----------|-----------|---------|----------|-------------|-------------|-----------|-----------|---------|----------|-------------|-------------|
|                        | IMPACT DESCRIPTION   | Direction of Impact | Degree of Certainty | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk |
| G-3                    | Geology  |                     |                     |           |           |         |          |             |             |           |           |         |          |             |             |           |           |         |          |             |             |
|                        | CLOSURE PHASE  |                     |                     | 5         |           |         |          |             |             | 5         |           |         |          |             |             | 5         |           |         |          |             |             |
| Impact 1               | NO ADDITIONAL IMPACT   |                     |                     |           | 0         |         |          |             | 0           |           | 0         |         |          |             | 0           |           | 0         |         |          |             | 0           |
|                        |  | No Impact           | Definite            | 1         | NO        |         |          |             | NO          | 1         | NO        |         |          |             | NO          | 1         | NO        |         |          |             | NO          |
| Mitigation<br>Measure: | None Required  |                     |                     |           | 0<br>NO   |         |          |             | 0<br>NO     |           | 0<br>NO   |         |          |             | 0<br>NO     |           | 0<br>NO   |         |          |             | NO          |
|                        | BEFORE MITIGATION  | No Impact           | Definite            |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |
| COMBINED               | BEI ONE WITHOUTON  | No impact           | Deminte             |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |
| WEIGHTED<br>RATING     | AFTER MITIGATION   |                     |                     |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |
|                        | (If mitigation is effective / possible this rating wil decrease) | No Impact           | Definite            |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |
| CTATUS OUG             | INITIAL DACCUME INADACTS TO ENVIDONMACNIT                        | Namakiya            | Deskahla            |           | 3         | 3       | 5        | 5           | 3.7         |           | 3         | 3       | 5        | 5           | 3.7         |           | 3         | 3       | 5        | 5           | 3.7         |
| STATUS QUO             | INITIAL BASELINE IMPACTS TO ENVIRONMENT                          | Negative            | Probable            |           | MOD       | LOCAL   | PERM     | OCCUR       | HIGH        |           | MOD       | LOCAL   | PERM     | OCCUR       | HIGH        |           | MOD       | LOCAL   | PERM     | OCCUR       | HIGH        |
| CUMULATIVE             | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM         | Nagativo            | Probable            |           | 3         | 3       | 5        | 5           | 3.7         |           | 3         | 3       | 5        | 5           | 3.7         |           | 3         | 3       | 5        | 5           | 3.7         |
| IMPACT                 | PROJECT, <b>BEFORE MITIGATION</b>                                | Negative            | Probable            |           | MOD       | LOCAL   | PERM     | OCCUR       | HIGH        |           | MOD       | LOCAL   | PERM     | OCCUR       | HIGH        |           | MOD       | LOCAL   | PERM     | OCCUR       | HIGH        |
| RESIDUAL               | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM         | Namakiya            | Deskahla            |           | 3         | 3       | 5        | 5           | 3.7         |           | 3         | 3       | 5        | 5           | 3.7         |           | 3         | 3       | 5        | 5           | 3.7         |
| IMPACT                 | PROJECT, AFTER MITIGATION  | Negative            | Probable            |           | MOD       | LOCAL   | PERM     | OCCUR       | HIGH        |           | MOD       | LOCAL   | PERM     | OCCUR       | HIGH        |           | MOD       | LOCAL   | PERM     | OCCUR       | HIGH        |

ALTERNATIVES: Rated By: Warren Kok Reviewed By: Site 1 Site 3A + 3B "NO-GO" Risk mpact Risk mpact Risk robability Neighting robability IMPACT DESCRIPTION Direction of Impact Degree of Certainty patial T-3 Topography CLOSURE PHASE 5 Alteration of surface water drainage patterns - stormwater runoff from 2 4 3 1.6 2 2 4 3 0 0 1.6 Impact 1 rehabilitated areas LOW STUDY LONG COULD LOW LOW STUDY LONG COULD LOW NO NO Probable Positive 5 5 1 Mitigation Ensure suitable soil cover, vegetation covers, free draining areas, 3 2 4 5 3 3 2 4 5 3 0 0 storm water attentuation, Regular surveying during profiling MOD STUDY LONG MOD STUDY LONG NO Measure: MOD MOD NO 1.6 1.6 0 2 2 4 3 2 4 3 0 0 0 BEFORE MITIGATION Positive Probable COMBINED LOW STUDY LONG COULD LOW LOW STUDY LONG COULD LOW NO #N/A #N/A #N/A NO WEIGHTED 3 2 4 5 3 2 4 5 3 0 0 0 0 RATING AFTER MITIGATION Positive Probable (If mitigation is effective / possible this rating wil decrease) MOD STUDY LONG OCCU MOD STUDY LONG OCCUR NO MOD MOD #N/A #N/A #N/A NO 3 3 5 5 3.7 3 3 5 5 3.7 3 5 5 3.7 STATUS QUO INITIAL IMPACTS TO ENVIRONMENT Negative Definite MOD LOCAL PERM OCCU HIGH MOD LOCAL PERM OCCU MOD LOCAL PERM O HIGH HIGH 2 3 5 5 3.3 3 3 5 5 3.7 2 3 5 5 3.3 CUMULATIVE INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM Negative Probable IMPACT PROJECT, BEFORE MITIGATION LOW LOCAL PERM OCCUP MOD LOW HIGH LOCAL PERM OCCUR HIGH LOCAL PERM OCCUR HIGH INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM 2 3 5 4 2.7 3 3 5 4 2.9 2 3 5 4 2.7 RESIDUAL

LOW LOCAL PERM VLIKE

MOD

MOD LOCAL PERM VLIKE

MOD

LOW LOCAL

PERM VLIKE

MOD

Negative

IMPACT

PROJECT, AFTER MITIGATION

Probable

| Mitigation   Measure:   Mydrocorbon and Chemical Management   Mydroc   | Rated By:    | Warren Kok  |                     |                     | ALIERI    | NATIVES   |         |          |             |      |           |           |         |          |             |      |           |           |         |          |             |     |
|--|--------------|---|---------------------|---------------------|-----------|-----------|---------|----------|-------------|------|-----------|-----------|---------|----------|-------------|------|-----------|-----------|---------|----------|-------------|-----|
| SLC-3   Soli and Land Capability   SLC-3   Solid and Land Capability   SLC-3   Solid and Land Capability   SLC-3   Solid and Land Capability   SLC-3   SLC-3   Solid and Land Capability   SLC-3   Solid and Land Capability   SLC-3   SLC-3   Solid and Land Capability   SLC-3   Solid and Land Capability   SLC-3   S   | Reviewed By: |   |                     |                     |           |           |         | ite 1    |             |      |           |           | Site    | 3A + 3E  | 3           |      |           |           | "N      | 0-G0"    |             |     |
| Soli and Land Capability   Soli and Land Capability   Solid and Ca   |              | IMPACT DESCRIPTION  | Direction of Impact | Degree of Certainty | Weighting | Magnatude | Spatial | Temporal | Probability | act  | Weighting | Magnatude | Spatial | Temporal | Probability | act  | Weighting | Magnatude | Spatial | Temporal | Probability | Ħ   |
| Poliuting of soils - hydrocarbon / chemical spills, spills from pipelines during rehabilitation of soils - hydrocarbon and Chemical Management   | SLC-3        | Soil and Land Capability  |                     |                     |           |           |         |          |             |      |           |           |         |          |             |      |           |           |         |          |             |     |
| Migation   Measure:    |              | CLOSURE PHASE   |                     |                     | 5         |           |         |          |             |      | 5         |           |         |          |             |      | 5         |           |         |          |             |     |
| Mitigation   Measure   Megative   Definite   | Impact 1     | Pollution of soils - hydrocarbon / chemical spills, spills from pipelines |                     |                     |           | 2         | 1       | 5        | 5           | 2.7  |           | 3         | 1       | 5        |             | •    |           | 0         |         |          |             |     |
| Migation Measure:   Mode   M   | •            | during rehabilitation   | Negative            | Definite            | 5         | LOW       | ISO     | PERM     |             |      | 5         |           |         | PERM     |             |      | 1         |           |         |          |             | NO  |
| Measure:   Mobility   Measure:   Mobility   Mobility   Mobility   Mobility   Measure:   Mobility    | _            | Hydrocarbon and Chemical Management                                       |                     |                     |           | 1         | 1       | 1        |             |      | Ĭ         |           |         |          |             |      | _         |           |         |          |             | _   |
| Figure 2   Erosion of soils   Petalize soils prior to seeding, Water seeded areas, ensure slopes are Measure: not steeper than 1.3, Water seeded areas   Negative   Definite   Petalize soils prior to seeding, Water seeded areas   Negative   Definite   Petalize soils prior to seeding, Water seeded areas   Negative   Definite   Petalize soils prior to seeding, Water seeded areas   Negative   Definite   Petalize soils prior to seeding, Water seeded areas   Negative   Definite   Petalize soils prior to seeding, Water seeded areas   Negative   Definite   Negative   Definite   Negative   Definite   Negative   Definite   Negative   Probable   Probable   Probable   Negative   Probable   Negative   Probable   Negative   Probable   Negative   Probable   Negative   Nega   | Measure:     | ,   |                     |                     |           |           | ISO     |          |             |      |           |           |         |          |             |      |           |           |         |          |             |     |
| Mitigation   Pertilize soils prior to seeding, Water seeded areas, ensure slopes are not steeper than 1.3, Water seeded areas   1.8   1.6   1.0   1.   | Impact 2     | Erosion of soils  |                     |                     |           |           | ISO     |          |             | _    |           |           |         |          |             |      |           |           |         |          |             |     |
| Measure:   not steeper than 1:3, Water seeded areas   10W   150   PERM   COULD   LOW   150   PERM   COULD   PERM    | Mitigation   | Fertilize soils prior to seeding. Water seeded areas, ensure slopes are   | Negative            | Definite            | 3         | _         | 1       |          |             |      | 3         |           |         |          |             |      |           |           |         |          |             |     |
| Mod   1   1   1   1   1   2   0.4   1   1   1   1   2   0.4   1   1   1   1   2   0.4   1   1   1   1   1   2   0.4   1   1   1   1   1   2   0.4   1   1   1   1   1   1   1   2   0.4   1   1   1   1   1   1   1   1   1  |              |   |                     |                     |           |           | ISO     | PERM     |             |      |           |           | ISO     |          |             |      |           |           |         |          |             | NO  |
| Negative   Definite    | Impact 2     | Loursail fartility and usability  |                     |                     |           | 3         | 1       | 4        | 4           | 2.1  |           | 3         | 1       | 4        | 4           | 2.1  |           | 0         |         |          |             | 0   |
| Mitigation Measure:  Ameliorate soils prior to resuse in capping facility.  And I 1 1 2 0.4  VLOW ISO INCID UNLIKE VLOW  MOD ISO LONG VLIKE LOW  MOD ISO LONG VLIKE LOW  MOD ISO LONG VLIKE LOW  MOD ISO LONG VLIKE MOD  NO #N/A #N/A #N/A #N/A NO  ***  ***TATUS QUO  ***INTIAL BASELINE IMPACTS TO ENVIRONMENT**  ***POISON TO INTIAL IMPACTS TO ENVIRONMENT**  ***A 2 2 5 5 5 3.7*  LOW STUDY PERM OCCUR MOD  ***A 2.1  ***O 0 0 0 0 0  ***O 0 0 0 | illipact 5   | Low soil fertility and usability  | Negative            | Definite            | 5         | MOD       | ISO     | LONG     | VLIKE       | MOD  | 5         | MOD       | ISO     | LONG     | VLIKE       | MOD  |           | NO        |         |          |             | NO  |
| Measure:   No   No   No   No   No   No   No   N  | Mitigation   | Ameliarate sails prior to resuse in capping facility                      | Negative            | Demnite             | ,         | 1         | 1       |          | 2           |      |           |           | 1       |          |             |      |           |           |         |          |             | ,   |
| COMBINED WEIGHTED RATING   REFORE MITIGATION   Regative   Definite   Defini   | Measure:     | Amenorate sons prior to resuse in capping Jacinty.                        |                     |                     |           | VLOW      | ISO     | INCID    | UNLIKE      | VLOW |           | VLOW      | ISO     | INCID    | UNLIKE      | VLOW |           | NO        |         |          |             | NO  |
|  |              | REFORE MITIGATION   | Nogativo            | Dofinito            |           | 2.3       | 0.9     | 4        | 4           | 1.9  |           | 2.8       | 0.9     | 4        | 4           | 2.1  |           | 0         | 0       | 0        | 0           | 0   |
| RATING<br>(If mitigation is effective / possible this rating will decrease)         Negative         Definite         1.1         0.9         1.7         2.3         0.6         1.6         0.9         1.7         2.3         0.6         0.0 <td></td> <td>BEI ONE WITHGATION</td> <td>Negative</td> <td>Deminte</td> <td></td> <td>MOD</td> <td>ISO</td> <td>LONG</td> <td>VLIKE</td> <td>LOW</td> <td></td> <td>MOD</td> <td>ISO</td> <td>LONG</td> <td>VLIKE</td> <td>MOD</td> <td></td> <td>NO</td> <td>#N/A</td> <td>#N/A</td> <td>#N/A</td> <td>NO</td>   |              | BEI ONE WITHGATION  | Negative            | Deminte             |           | MOD       | ISO     | LONG     | VLIKE       | LOW  |           | MOD       | ISO     | LONG     | VLIKE       | MOD  |           | NO        | #N/A    | #N/A     | #N/A        | NO  |
| Negative   Definite    | _            | AETER MITIGATION  |                     |                     |           | 1.1       | 0.9     | 1.7      | 2.3         | 0.6  |           | 1.6       | 0.9     | 1.7      | 2.3         | 0.6  |           | 0         | 0       | 0        | 0           | 0   |
| STATUS QUO INITIAL BASELINE IMPACTS TO ENVIRONMENT  Negative  Probable  Prob | KATING       |   | Negative            | Definite            |           |           |         |          |             |      |           |           |         |          |             |      |           |           | #N1/A   | #NI/A    | #NI/A       |     |
| TATUS QUO INITIAL BASELINE IMPACTS TO ENVIRONMENT  Negative  Probable  Proba |              | , yg  |                     |                     |           |           |         |          |             |      |           |           |         |          |             |      |           |           |         |          |             |     |
| CUMULATIVE INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM Probable   | STATUS QUO   | INITIAL BASELINE IMPACTS TO ENVIRONMENT                                   | Negative            | Probable            |           |           |         |          |             |      |           |           |         |          |             |      |           |           |         |          |             |     |
| IMPACT PROJECT, BEFORE MITIGATION  Negative Probable HIGH STUDY PERM OCCUR HIGH  RESIDUAL INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM Negative Probable  |              |   | -                   |                     |           | LOW       |         | PERM     |             |      |           | LOW       |         |          |             |      |           |           |         |          |             | MOD |
| IMPACT PROJECT, BEFORE MITIGATION  HIGH STUDY PERM OCCUR HIGH  RESIDUAL INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM  Negative  Probable   |              |   | Negative            | Probable            |           | 4         | 2       | 5        | 5           | 3.7  |           | 4         | 2       | 5        | 5           | 3.7  |           | 2         | 2       | 5        | 5           | 3   |
| Negative Probable  | IMPACT       | PROJECT, BEFORE MITIGATION  | cgative             |                     |           | HIGH      | STUDY   | PERM     | OCCUR       | HIGH |           | HIGH      | STUDY   | PERM     | OCCUR       | HIGH |           | LOW       | STUDY   | PERM     | OCCUR       | MOD |
| IMPACT PROJECT, AFTER MITIGATION PERM OCCUR HIGH HIGH STUDY PERM OCCUR HIGH LOW STUDY PERM OCCUR MO  | RESIDUAL     | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM                  | Nogativo            | Drobable            |           | 3         | 2       | 5        | 5           | 3.3  |           | 4         | 2       | 5        | 5           | 3.7  |           | 2         | 2       | 5        | 5           | 3   |
|  | IMPACT       | PROJECT, AFTER MITIGATION   | inegative           | Propable            |           | MOD       | STUDY   | PERM     | OCCUR       | HIGH |           | HIGH      | STUDY   | PERM     | OCCUR       | HIGH |           | LOW       | STUDY   | PERM     | OCCUR       | MOD |

| Rated By:          | Warren Kok  |                     |                     | ALTERI    | NATIVES   | :        |          |             |             |           |           |            |            |             |             |           |           |         |          |             |             |
|--------------------|---|---------------------|---------------------|-----------|-----------|----------|----------|-------------|-------------|-----------|-----------|------------|------------|-------------|-------------|-----------|-----------|---------|----------|-------------|-------------|
| Reviewed By:       |   |                     |                     |           |           | 9        | ite 1    |             |             |           |           | Site       | 3A + 3E    | 3           |             |           |           | "N      | 10-GO"   |             |             |
|                    | IMPACT DESCRIPTION  | Direction of Impact | Degree of Certainty | Weighting | Magnatude | Spatial  | Temporal | Probability | Impact Risk | Weighting | Magnatude | Spatial    | Temporal   | Probability | Impact Risk | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk |
| SWW-3              | Surface Water and Wetlands  |                     |                     |           |           |          |          |             |             |           |           |            |            |             |             |           |           |         |          |             |             |
|                    | CLOSURE PHASE   |                     |                     | 5         |           |          |          |             |             | 5         |           |            |            |             |             | 5         |           |         |          |             |             |
| Impact 1           | Decreased water quality (suspended solids, turbidity, hydro-carbon, |                     |                     |           | 2         | 2        | 4        | 4           | 2.1         |           | 3         | 3          | 4          | 5           | 3.3         |           | 0         |         |          |             | 0           |
| •                  | chemical, and microbiological)                                      | Negative            | Definite            | 5         | LOW       | STUDY    | LONG     | VLIKE       | MOD         | 5         | MOD       |            |            | OCCUR       |             | 1         | NO        |         |          |             | NO          |
| Mitigation         | Rehab of unnecessary infrastructure, Water treatment of De Jager's  |                     |                     |           | 1         | 1        | 1        | 4           | 0.8         | Ĭ         | 2         | 2          | 1          | 4           | 1.3         | -         | 0         |         |          |             | 0           |
| Measure:           | Pan, Slope not exceed 1:3   |                     |                     |           | VLOW<br>3 | ISO<br>2 | INCID    | VLIKE<br>4  | VLOW<br>2.4 |           | LOW<br>3  | STUDY<br>2 | INCID<br>4 | VLIKE<br>4  | 2.4         |           | NO<br>0   |         |          |             | NO<br>O     |
| Impact 2           | Reduction in habitat integrity of downstream wetland areas          |                     |                     |           | MOD       | STUDY    | LONG     |             | MOD         |           |           | STUDY      |            |             | MOD         |           | NO        |         |          |             | NO          |
| Mitigation         |   | Negative            | Probable            | 3         | 1         | 1        | 4        | 4           | 1.6         | 3         | 1         | 1          | 4          | 4           | 1.6         |           | 0         |         |          |             | 0           |
| Measure:           | Fertilise topsoil, Indigenous Seeding, Water rehabed areas          |                     |                     |           | VLOW      | ISO      | LONG     | VLIKE       | LOW         |           | VLOW      | ISO        | LONG       | VLIKE       | LOW         |           | NO        |         |          |             | NO          |
| Impact 3           | Sedimentation of wetlands and surface water resources               |                     |                     |           | 2         | 2        | 2        | 5           | 2           |           | 2         | 2          | 2          | 5           | 2           |           | 0         |         |          |             | 0           |
| ilipact 3          | Sedimentation of wetlands and surface water resources               | Negative            | Probable            | 3         | LOW       | STUDY    | SHORT    | OCCUR       | LOW         | 3         | LOW       | STUDY      | SHORT      | OCCUR       | LOW         |           | NO        |         |          |             | NO          |
| Mitigation         | Fertilise topsoil, Indigenous Seeding, Water rehabed areas          | regutive            | 11000010            | ,         | 1         | 1        | 1        | 2           | 0.4         | ,         | 1         | 1          | 1          | 2           | 0.4         |           | 0         |         |          |             | 0           |
| Measure:           | retainse topson, margenous seeding, mater rendsed dreas             |                     |                     |           | VLOW      | ISO      | INCID    | UNLIKE      | VLOW        |           | VLOW      | ISO        | INCID      | UNLIKE      | VLOW        |           | NO        |         |          |             | NO          |
|                    | BEFORE MITIGATION   | Negative            | Probable            |           | 1.7       | 1.5      | 2.5      | 3.1         | 1.2         |           | 2         | 1.8        | 2.5        | 3.5         | 1.5         |           | 0         | 0       | 0        | 0           | 0           |
| COMBINED           | BEI ONE WITHGATION  | ivegative           | riobable            |           | LOW       | STUDY    | MED      | VLIKE       | LOW         |           | LOW       | STUDY      | MED        | VLIKE       | LOW         |           | NO        | #N/A    | #N/A     | #N/A        | NO          |
| WEIGHTED<br>RATING | AFTER MITIGATION  |                     |                     |           | 0.7       | 0.7      | 1.3      | 2.5         | 0.5         |           | 1.1       | 1.1        | 1.3        | 2.5         | 0.6         |           | 0         | 0       | 0        | 0           | 0           |
| TUAT THE           | (If mitigation is effective / possible this rating wil decrease)    | Positive            | Definite            |           | VLOW      | ISO      |          | COULD       | VLOW        |           | LOW       | STUDY      |            |             | VLOW        |           | NO        | #N/A    | #N/A     | #N/A        | NO          |
|                    | in magazionis effective, possible tins rating will decrease,        |                     |                     |           |           |          |          |             |             |           |           |            |            |             |             |           |           |         | <u> </u> |             | _           |
| STATUS QUO         | INITIAL BASELINE IMPACTS TO ENVIRONMENT                             | Negative            | Probable            |           | 4         | 3        | 4        | 5           | 3.7         |           | 4         | 3          | 4          | 5           | 3.7         |           | 4         | 3       | 4        | 5           | 3.7         |
|                    |   | -                   |                     |           | HIGH      | LOCAL    | LONG     | OCCUR       |             |           | HIGH      | LOCAL      | LONG       | OCCUR       |             |           | HIGH      | LOCAL   | LONG     | OCCUR       | HIGH        |
|                    | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM            | Negative            | Probable            |           | 4         | 3        | 4        | 5           | 3.7         |           | 4         | 3          | 4          | 5           | 3.7         |           | 4         | 3       | 4        | 5           | 3.7         |
| IMPACT             | PROJECT, <b>BEFORE MITIGATION</b>                                   | egutive             | codbie              |           | HIGH      | LOCAL    | LONG     | OCCUR       | HIGH        |           | HIGH      | LOCAL      | LONG       | OCCUR       | HIGH        |           | HIGH      | LOCAL   | LONG     | OCCUR       | HIGH        |
| RESIDUAL           | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM            | Negative            | Drobable            |           | 3         | 3        | 4        | 4           | 2.7         |           | 3         | 3          | 4          | 4           | 2.7         |           | 4         | 3       | 4        | 5           | 3.7         |
| IMPACT             |   | Negative            | Probable            |           | MOD       | LOCAL    | LONG     | VLIKE       | MOD         |           | MOD       | LOCAL      | LONG       | VLIKE       | MOD         |           | HIGH      | LOCAL   | LONG     | OCCUR       | HIGH        |

|              | warren KoK  |                     |                     | ,         | VATIVES   |         |           |             |             |           |           |          |           |             |             |           |           |         |          |             |             |
|--------------|---|---------------------|---------------------|-----------|-----------|---------|-----------|-------------|-------------|-----------|-----------|----------|-----------|-------------|-------------|-----------|-----------|---------|----------|-------------|-------------|
| Reviewed By: |   |                     |                     |           |           | 5       | ite 1     |             |             |           |           | Site     | 3A + 3E   | 3           |             |           |           | ۱"      | 10-GO"   |             |             |
|              | IMPACT DESCRIPTION  | Direction of Impact | Degree of Certainty | Weighting | Magnatude | Spatial | Temporal  | Probability | Impact Risk | Weighting | Magnatude | Spatial  | Temporal  | Probability | Impact Risk | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk |
| GW-3         | Groundwater   |                     |                     |           |           |         |           |             |             |           |           |          |           |             |             |           |           |         |          |             |             |
|              | CLOSURE PHASE   |                     |                     | 5         |           |         |           |             |             | 5         |           |          |           |             |             | 5         |           |         |          |             |             |
| Impact 1     | Decreased water quality - hydrocarbon / chemicals used on site during   |                     |                     |           | 2         | 1       | 4         | 3           | 1.4         |           | 2         | 1        | 4         | 3           | 1.4         |           | 0         |         |          |             | 0           |
| IIIIpact 1   | the closure phase   | Negative            | Definite            | 5         | LOW       | ISO     | LONG      | COULD       | LOW         | 5         | LOW       | ISO      | LONG      | COULD       | LOW         | 1         | NO        |         |          |             | NO          |
| Mitigation   | Hydrocarbon / Chemical Management                                       | reguire             | Demine              | 3         | 1         | 1       | 1         | 2           | 0.4         | ,         | 1         | 1        | 1         | 2           | 0.4         | 1 *       | 0         |         |          |             | 0           |
| Measure:     | <u> </u>  |                     |                     |           | VLOW      | ISO     | INCID     | UNLIKE      | VLOW        |           | VLOW      | ISO      | INCID     |             |             |           | NO        |         |          |             | NO          |
| Impact 2     | Surface water ingress into the ash body producing polluted ground water |                     |                     |           | 3<br>MOD  | ISO     | 4<br>LONG | 4<br>VLIKE  | 2.1<br>MOD  |           | 3<br>MOD  | 1<br>ISO | 4<br>LONG | 4<br>VLIKE  | 2.1<br>MOD  |           | 0<br>NO   |         |          |             | 0<br>NO     |
| Mitigation   |   | Negative            | Probable            | 3         | 2         | 2       | A LONG    | VLIKE<br>3  | 1.6         | 3         | 2         | 2        | 4         | 3           | 1.6         |           | 0         |         |          |             | 0           |
| Measure:     | Topsoil layer >300mm, Sustainable Indigenous Vegetation Cover           |                     |                     |           |           | STUDY   | LONG      | COULD       |             |           | LOW       |          |           | COULD       |             |           | NO        |         |          |             | NO          |
|              |   |                     |                     |           | 1.9       | 0.8     | 3.2       | 2.7         | 1.1         |           | 1.9       | 0.8      | 3.2       | 2.7         | 1.1         |           | 0         | 0       | 0        | 0           | 0           |
| COMBINED     | BEFORE MITIGATION   | Negative            | Probable            |           |           |         |           |             |             |           | -         |          |           |             |             |           |           |         |          |             | _           |
| WEIGHTED     |   |                     |                     |           | LOW       | ISO     | LONG      | COULD       | LOW         |           | LOW       | ISO      | LONG      | COULD       | LOW         |           | NO        | #N/A    | #N/A     | #N/A        | NO          |
| RATING       | AFTER MITIGATION  | Negative            | Definite            |           | 1.1       | 1.1     | 1.7       | 1.9         | 0.5         |           | 1.1       | 1.1      | 1.7       | 1.9         | 0.5         |           | 0         | 0       | 0        | 0           | 0           |
|              | (If mitigation is effective / possible this rating wil decrease)        | ivegative           | Demine              |           | LOW       | STUDY   | SHORT     | UNLIKE      | VLOW        |           | LOW       | STUDY    | SHORT     | UNLIKE      | VLOW        |           | NO        | #N/A    | #N/A     | #N/A        | NO          |
|              |   |                     |                     |           | 2         | 3       | 4         | 5           | 3           |           | 2         | 3        | 4         | 5           | 3           |           | 2         | 3       | 4        | 5           | 3           |
| STATUS QUO   | INITIAL BASELINE IMPACTS TO ENVIRONMENT                                 | Negative            | Probable            |           | LOW       | LOCAL   | LONG      | OCCUR       | MOD         |           | LOW       | LOCAL    | LONG      | OCCUR       | MOD         |           | LOW       | LOCAL   | LONG     | OCCUR       | MOD         |
| CURALU ATIVE | INITIAL INADACTS TO SANGROUNAS IT ADDITIONAL INADACTS SDOAM             |                     |                     |           | 3         | 3       | LONG      |             | 3.3         |           |           | 3        | 4         | 5           | 3.3         |           |           | 3       | 4        | 5           | 3           |
|              | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM                | Negative            | Probable            |           |           | _       | 4         | 5           |             |           | 3         |          |           |             |             |           | 2         |         | 4        |             | _           |
| IIVIPACI     | PROJECT, BEFORE MITIGATION  |                     |                     |           |           | LOCAL   | LONG      | OCCUR       |             |           | MOD       |          |           | OCCUR       | HIGH        |           | LOW       | LOCAL   | LONG     |             | MOD         |
|              | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM                | Negative            | Probable            |           | 2         | 3       | 4         | 5           | 3           |           | 2         | 3        | 4         | 5           | 3           |           | 2         | 3       | 4        | 5           | 3           |
| IMPACT       | PROJECT, AFTER MITIGATION   | перацие             | coable              |           | LOW       | LOCAL   | LONG      | OCCUR       | MOD         |           | LOW       | LOCAL    | LONG      | OCCUR       | MOD         |           | LOW       | LOCAL   | LONG     | OCCUR       | MOD         |

|                     | warren kok  |  |                     | ALIEKI    | NATIVES   |         |           |             |             |           |           |          |           |             |             |           |           |          |              |             |             |
|---------------------|---|--|---------------------|-----------|-----------|---------|-----------|-------------|-------------|-----------|-----------|----------|-----------|-------------|-------------|-----------|-----------|----------|--------------|-------------|-------------|
| Reviewed By:        |   | _  |                     |           |           | 5       | Site 1    |             |             |           |           | Site     | 3A + 3E   | 1           |             |           |           | "N       | IO-GO"       |             |             |
|                     | IMPACT DESCRIPTION  | Direction of Impact  | Degree of Certainty | Weighting | Magnatude | Spatial | Temporal  | Probability | Impact Risk | Weighting | Magnatude | Spatial  | Temporal  | Probability | Impact Risk | Weighting | Magnatude | Spatial  | Temporal     | Probability | Impact Risk |
| TE-3                | Terrestrial Ecology   |  |                     |           |           |         |           |             |             |           |           |          |           |             |             |           |           |          |              |             |             |
|                     | CLOSURE PHASE   |  |                     | 5         |           |         |           |             |             | 5         |           |          |           |             |             | 5         |           |          |              |             |             |
| Impact 1            | Capping of the waste body   |  |                     |           | 2         | 1       | 4         | 2           | 0.9         |           | 2         | 1        | 4         | 2           | 0.9         |           | 0         |          |              |             | 0           |
| ·                   | capping of the waste body   | Positive   | Probable            | 5         | LOW       | ISO     | LONG      | UNLIKE      |             | 5         | LOW       | ISO      |           | UNLIKE      | VLOW        | 1         | NO        |          |              |             | NO          |
| Mitigation          | Alien invasive control, Ameliorate soils replaced, Indigenous seedmix |  |                     |           | 3         | 1       | 4         | 5           | 2.7         | ,         | 3         | 1        | 4         | 5           | 2.7         | _         | 0         |          |              |             | 0           |
| Measure:            |   |  |                     |           | MOD       | ISO     | LONG<br>4 |             | MOD         |           | MOD       | ISO      | LONG<br>4 |             | MOD         |           | NO        |          |              |             | NO          |
| Impact 2            | Increase in alien invasive species                                    |  |                     |           | 3<br>MOD  | ISO     |           | 5<br>OCCUR  | 2.7<br>MOD  |           | 3<br>MOD  | 1<br>ISO | LONG      | 5<br>OCCUR  | 2.7<br>MOD  |           | 0<br>NO   |          |              |             | 0<br>NO     |
| Mitigation          |   | Negative   | Probable            | 3         | 1         | 1       | 4         | 5           | 2           | 3         | 1         | 1        | 4         | 5           | 2           |           | 0         |          |              |             | 0           |
| Measure:            | Alien invasive control, Indigenous Seedmix - Rehab area               |  |                     |           | VLOW      | ISO     | LONG      |             | LOW         |           | VLOW      | ISO      | LONG      | OCCUR       | LOW         |           | NO        |          |              |             | NO          |
|                     |   |  |                     |           | 1.9       | 0.8     | 3.2       | 2.5         | 1           |           | 1.9       | 0.8      | 3.2       | 2.5         | 1           |           | 0         | 0        | 0            | 0           | 0           |
| COMBINED            | BEFORE MITIGATION   | Positive   | Probable            |           | LOW       | ISO     | LONG      | COULD       | VLOW        |           | LOW       | ISO      | LONG      | COULD       | VLOW        |           | NO        | #N/A     | #N/A         | #N/A        | NO          |
| WEIGHTED            |   |  |                     |           |           |         |           |             |             |           |           |          |           |             |             |           |           | <u> </u> | <del>'</del> |             |             |
|                     | AFTER MITIGATION  | Positive   | Probable            |           | 1.8       | 0.8     | 3.2       | 4           | 1.5         |           | 1.8       | 0.8      | 3.2       | 4           | 1.5         |           | 0         | 0        | 0            | 0           | 0           |
|                     | (If mitigation is effective / possible this rating wil decrease)      |  |                     |           | LOW       | ISO     | LONG      | VLIKE       | LOW         |           | LOW       | ISO      | LONG      | VLIKE       | LOW         |           | NO        | #N/A     | #N/A         | #N/A        | NO          |
| CT. T. I.C. O. I.O. | INITIAL PASSUANS INADACTS TO SAIL/IDONIA/SAIT                         | No. of the last of | 0.5.3               |           | 3         | 2       | 4         | 5           | 3           |           | 3         | 2        | 4         | 5           | 3           |           | 3         | 2        | 4            | 5           | 3           |
| STATUS QUO          | INITIAL BASELINE IMPACTS TO ENVIRONMENT                               | Negative   | Definite            |           | MOD       | STUDY   | LONG      | OCCUR       | MOD         |           | MOD       | STUDY    | LONG      | OCCUR       | MOD         |           | MOD       | STUDY    | LONG         | OCCUR       | MOD         |
| CUMULATIVE          | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM              |  |                     |           | 3         | 2       | 4         | 5           | 3           |           | 4         | 2        | 4         | 5           | 3.3         |           | 3         | 2        | 4            | 5           | 3           |
|                     | PROJECT, BEFORE MITIGATION  | Negative   | Probable            |           | MOD       | STUDY   | LONG      | OCCUR       | MOD         |           | HIGH      | STUDY    | LONG      | OCCUR       | HIGH        |           | MOD       | STUDY    | LONG         |             | MOD         |
| RESIDUAL            | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM              |  |                     |           | 2         | 2       | 4         | 5           | 2.7         |           | 3         | 2        | 4         | 5           | 3           |           | 3         | 2        | 4            | 5           | 3           |
|                     | PROJECT, AFTER MITIGATION   | Negative   | Probable            |           |           |         | -         | OCCUR       |             |           | MOD       |          | -         |             | MOD         |           | MOD       | CTUDY    |              |             |             |
| IIII ACI            |   |  |                     |           | LUW       | 31007   | LUNG      | OCCUR       | מטוא        |           | MOD       | STUDY    | LUNG      | OCCUR       | מטואו       |           | MOD       | STUDY    | LONG         | OCCUR       | MOD         |

Rated By: Warren Kok ALTERNATIVES:

Reviewed By:

| Reviewed By:           |  |                      |                     |           |           | S       | ite 1    |             |             |           |           | Site    | 3A + 3B  |             |             |           |           | "N      | 0-G0"    |             |             |
|------------------------|--|----------------------|---------------------|-----------|-----------|---------|----------|-------------|-------------|-----------|-----------|---------|----------|-------------|-------------|-----------|-----------|---------|----------|-------------|-------------|
|                        | IMPACT DESCRIPTION   | Direction of Impact  | Degree of Certainty | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk |
| AF-3                   | Avifauna   |                      |                     |           |           |         |          |             |             |           |           |         |          |             |             |           |           |         |          |             |             |
|                        | CLOSURE PHASE  |                      |                     | 5         |           |         |          |             |             | 5         |           |         |          |             |             | 5         |           |         |          |             |             |
| Impact 1               | NO ADDITIONAL IMPACT   |                      |                     |           | 0         |         |          |             | 0           |           | 0         |         |          |             | 0           |           | 0         |         |          |             | 0           |
|                        |  | No Additional Impact | Definite            | 1         | NO        |         |          |             | NO          | 1         | NO        |         |          |             | NO          | 1         | NO        |         |          |             | NO          |
| Mitigation<br>Measure: | None Required  |                      |                     |           | 0<br>NO   |         |          |             | NO<br>NO    |           | 0<br>NO   |         |          |             | NO          |           | 0<br>NO   |         |          |             | 0<br>NO     |
|                        | BEFORE MITIGATION  | Negative             | Definite            |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |
| COMBINED<br>WEIGHTED   |  |                      | 200                 |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |
|                        | AFTER MITIGATION   | Negative             | Definite            |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |
|                        | (If mitigation is effective / possible this rating wil decrease) | rregutive            | Demine              |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |
| STATUS OUO             | INITIAL DASCLING INADACTS TO ENVIDONIMENT                        | Nogativo             | Definite            |           | 3         | 2       | 4        | 5           | 3           |           | 3         | 2       | 4        | 5           | 3           |           | 3         | 2       | 4        | 5           | 3           |
| STATUS QUU             | INITIAL BASELINE IMPACTS TO ENVIRONMENT                          | Negative             | Dennite             |           | MOD       | STUDY   | LONG     | OCCUR       | MOD         |           | MOD       | STUDY   | LONG     | OCCUR       | MOD         |           | MOD       | STUDY   | LONG     | OCCUR       | MOD         |
| CUMULATIVE             | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM         | Negative             | Definite            |           | 3         | 2       | 4        | 5           | 3           |           | 3         | 2       | 4        | 5           | 3           |           | 3         | 2       | 4        | 5           | 3           |
| IMPACT                 | PROJECT, <b>BEFORE MITIGATION</b>                                | regative             | Dennite             |           | MOD       | STUDY   | LONG     | OCCUR       | MOD         |           | MOD       | STUDY   | LONG     | OCCUR       | MOD         |           | MOD       | STUDY   | LONG     | OCCUR       | MOD         |
| RESIDUAL               | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM         | Nogativo             | Definite            |           | 3         | 2       | 4        | 5           | 3           |           | 3         | 2       | 4        | 5           | 3           |           | 3         | 2       | 4        | 5           | 3           |
| IMPACT                 | PROJECT, AFTER MITIGATION  | Negative             | Delilille           |           | MOD       | STUDY   | LONG     | OCCUR       | MOD         |           | MOD       | STUDY   | LONG     | OCCUR       | MOD         |           | MOD       | STUDY   | LONG     | OCCUR       | MOD         |

| Rated By:          | Warren Kok   |                     |                     | ALTERN    | NATIVES   | :        |            |             |             |           |           |          |          |             |             |           |           |         |             |             |             |
|--------------------|--|---------------------|---------------------|-----------|-----------|----------|------------|-------------|-------------|-----------|-----------|----------|----------|-------------|-------------|-----------|-----------|---------|-------------|-------------|-------------|
| Reviewed By:       |  |                     |                     |           |           | 5        | ite 1      |             |             |           |           | Site     | 3A + 3E  | 3           |             |           |           | "N      | IO-GO"      |             |             |
|                    | IMPACT DESCRIPTION   | Direction of Impact | Degree of Certainty | Weighting | Magnatude | Spatial  | Temporal   | Probability | Impact Risk | Weighting | Magnatude | Spatial  | Temporal | Probability | Impact Risk | Weighting | Magnatude | Spatial | Temporal    | Probability | Impact Risk |
| AQ-3               | Air Quality  |                     |                     |           |           |          |            |             |             |           |           |          |          |             |             |           |           |         |             |             |             |
|                    | CLOSURE PHASE  |                     |                     | 5         |           |          |            |             |             | 5         |           |          |          |             |             | 5         |           |         |             |             |             |
| Impact 1           | Greenhouse gas emissions   |                     |                     |           | 2         | 1        | 2          | 3           | 1           |           | 2         | 1        | 2        | 3           | 1           |           | 0         |         |             |             | 0           |
|                    | ŭ  | Negative            | Possible            | 3         | LOW       | ISO      | SHORT      | COULD       | VLOW        | 3         | LOW       | ISO      |          |             | VLOW        | 1         | NO        |         |             |             | NO          |
| Mitigation         | Reduce energy consumption, Regular vehicle maintenance,          |                     |                     |           | 1         | 1        | 1          | 3           | 0.6         | Ĭ         | 1         | 1        | 1        | 3           | 0.6         | l -       | 0         |         |             |             | 0           |
| Measure:           | Consecutive Rehab  |                     |                     |           | VLOW<br>3 | ISO<br>3 | INCID<br>3 | COULD<br>5  | VLOW<br>3   |           | VLOW<br>3 | ISO<br>3 | 3        | COULD<br>5  | VLOW<br>3   |           | NO<br>0   |         |             |             | NO<br>0     |
| Impact 2           | Nuisance and fall out dust                                       |                     |                     |           | MOD       | LOCAL    | MED        | OCCUR       | MOD         |           | MOD       | LOCAL    | MED      | OCCUR       | MOD         |           | NO        |         |             |             | NO          |
| Mitigation         | Watering to reduce dust mobilisation, Use Site 3, Revegetate     | Negative            | Possible            | 3         | 3         | 1        | 3          | 5           | 2.3         | 3         | 3         | 1        | 3        | 5           | 2.3         |           | 0         |         |             |             | 0           |
| Measure:           | stockpiles, Dust-aside / Chemical Suppressant on Roads.          |                     |                     |           | MOD       | ISO      | MED        | OCCUR       | MOD         |           | MOD       | ISO      | MED      | OCCUR       | MOD         |           | NO        |         |             |             | NO          |
| Impact 3           | Increased particulate matter (PM2.5 and PM10)                    |                     |                     |           | 3         | 4        | 3          | 5           | 3.3         |           | 3         | 4        | 3        | 5           | 3.3         |           | 0         |         |             |             | 0           |
| IIIIpact 3         | , , ,  | Negative            | Possible            | 5         | MOD       | REG      | MED        | OCCUR       | HIGH        | 5         | MOD       | REG      | MED      | OCCUR       |             |           | NO        |         |             |             | NO          |
| Mitigation         | Watering to reduce dust mobilisation, Use Site 3, Revegetate     |                     |                     |           | 2         | 3        | 3          | 3           | 1.6         | ]         | 2         | 3        | 3        | 3           | 1.6         |           | 0         |         |             |             | 0           |
| Measure:           | stockpiles, Dust-aside / Chemical Suppressant on Roads.          |                     |                     |           | LOW       | LOCAL    | MED        | COULD       | LOW         |           | LOW       | LOCAL    | MED      | COULD       | LOW         |           | NO        |         |             |             | NO          |
|                    | BEFORE MITIGATION  | Negative            | Possible            |           | 2         | 2.1      | 2          | 3.3         | 1.3         |           | 2         | 2.1      | 2        | 3.3         | 1.3         |           | 0         | 0       | 0           | 0           | 0           |
| COMBINED           |  | riegative           | 1 0331010           |           | LOW       | LOCAL    | SHORT      | VLIKE       | LOW         |           | LOW       | LOCAL    | SHORT    | VLIKE       | LOW         |           | NO        | #N/A    | #N/A        | #N/A        | NO          |
| WEIGHTED<br>RATING | AFTER MITIGATION   |                     |                     |           | 1.5       | 1.4      | 1.8        | 2.6         | 0.8         |           | 1.5       | 1.4      | 1.8      | 2.6         | 0.8         |           | 0         | 0       | 0           | 0           | 0           |
| KATING             | (If mitigation is effective / possible this rating wil decrease) | Negative            | Possible            |           | LOW       | STLIDY   | SHORT      | COLLID      | VLOW        |           | LOW       | STUDY    | SHORT    | COLLID      | VLOW        |           | NO        | #N/A    | #N/A        | #N/A        | NO          |
|                    |  |                     |                     |           |           | 4        |            | 5           | 3.3         |           |           | 4        | 3        | 5           | 3.3         |           |           | 4       | <del></del> | 5           | 3.3         |
| STATUS QUO         | INITIAL BASELINE IMPACTS TO ENVIRONMENT                          | Negative            | Possible            |           | 3         |          | 3          |             |             |           | 3         |          |          |             |             |           | 3         | 4       | 3           |             |             |
|                    |  |                     |                     |           | MOD       | REG      | MED        | OCCUR       | HIGH        |           | MOD       | REG      | MED      | OCCUR       |             |           | MOD       | REG     | MED         | OCCUR       | HIGH        |
|                    | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM         | Negative            | Possible            |           | 3         | 4        | 3          | 5           | 3.3         |           | 3         | 4        | 3        | 5           | 3.3         |           | 3         | 4       | 3           | 5           | 3.3         |
| IMPACT             | PROJECT, BEFORE MITIGATION                                       |                     |                     |           | MOD       | REG      | MED        | OCCUR       | HIGH        |           | MOD       | REG      | MED      | OCCUR       | HIGH        |           | MOD       | REG     | MED         | OCCUR       | HIGH        |
| RESIDUAL           | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM         | Negative            | Possible            |           | 3         | 4        | 3          | 4           | 2.7         |           | 3         | 4        | 3        | 4           | 2.7         |           | 3         | 4       | 3           | 4           | 2.7         |
| IMPACT             | PROJECT, AFTER MITIGATION  | Hegutive            | TOSSIDIC            |           | MOD       | REG      | MED        | VLIKE       | MOD         |           | MOD       | REG      | MED      | VLIKE       | MOD         |           | MOD       | REG     | MED         | VLIKE       | MOD         |

| Reviewed By:           |  |                     |                     |           |           | 5       | ite 1    |             |             |           |           | Site    | 3A + 3E  | 3           |             |           |           | "N      | 0-G0"    |             |             |
|------------------------|--|---------------------|---------------------|-----------|-----------|---------|----------|-------------|-------------|-----------|-----------|---------|----------|-------------|-------------|-----------|-----------|---------|----------|-------------|-------------|
|                        | IMPACT DESCRIPTION   | Direction of Impact | Degree of Certainty | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk |
| N-3                    | Noise  |                     |                     |           |           |         |          |             |             |           |           |         |          |             |             |           |           |         |          |             |             |
|                        | CLOSURE PHASE  |                     |                     | 5         |           |         |          |             |             | 5         |           |         |          |             |             | 5         |           |         |          |             |             |
| Impact 1               | NO ADDITIONAL IMACT  |                     |                     |           | 0         |         |          |             | 0           |           | 0         |         |          |             | 0           |           | 0         |         |          |             | 0           |
| •                      |  | No Impact           | Definite            | 1         | NO        |         |          |             | NO          | 1         | NO        |         |          |             | NO          | 1         | NO        |         |          |             | NO          |
| Mitigation<br>Measure: | None Required.   |                     |                     |           | 0<br>NO   |         |          |             | 0<br>NO     |           | 0<br>NO   |         |          |             | NO          |           | 0<br>NO   |         |          |             | NO          |
| Wicusure.              |  |                     |                     |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |
| COMBINED               | BEFORE MITIGATION  | No Impact           | Definite            |           | NO        |         |          |             | NO          |           | NO        | #N/A    | #N/A     |             | NO          |           | NO        | #N/A    |          |             | NO          |
| WEIGHTED<br>RATING     | AFTER MITIGATION   |                     |                     |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |
|                        | (If mitigation is effective / possible this rating wil decrease) | No Impact           | Definite            |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |
| CTATUS OUG             | INITIAL DACELINE INADACTE TO ENVIDONMAENT                        | Namakiya            | Probable            |           | 2         | 3       | 3        | 5           | 2.7         |           | 2         | 3       | 3        | 5           | 2.7         |           | 2         | 3       | 3        | 5           | 2.7         |
| STATUS QUO             | INITIAL BASELINE IMPACTS TO ENVIRONMENT                          | Negative            | Probable            |           | LOW       | LOCAL   | MED      | OCCUR       | MOD         |           | LOW       | LOCAL   | MED      | OCCUR       | MOD         |           | LOW       | LOCAL   | MED      | OCCUR       | MOD         |
| CUMULATIVE             | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM         | Namakiya            | Deskahla            |           | 2         | 2       | 3        | 5           | 2.3         |           | 2         | 2       | 3        | 5           | 2.3         |           | 2         | 3       | 3        | 5           | 2.7         |
| IMPACT                 | PROJECT, <b>BEFORE MITIGATION</b>                                | Negative            | Probable            |           | LOW       | STUDY   | MED      | OCCUR       | MOD         |           | LOW       | STUDY   | MED      | OCCUR       | MOD         |           | LOW       | LOCAL   | MED      | OCCUR       | MOD         |
| RESIDUAL               | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM         | Negativo            | Drobable            |           | 2         | 2       | 3        | 5           | 2.3         |           | 2         | 2       | 3        | 5           | 2.3         |           | 2         | 3       | 3        | 5           | 2.7         |
| IMPACT                 | PROJECT, AFTER MITIGATION  | Negative            | Probable            |           | LOW       | STUDY   | MED      | OCCUR       | MOD         |           | LOW       | STUDY   | MED      | OCCUR       | MOD         |           | LOW       | LOCAL   | MED      | OCCUR       | MOD         |

ALTERNATIVES: Rated By: Warren Kok Reviewed By: Site 1 Site 3A + 3B "NO-GO" Risk mpact Risk mpact Risk robability Neighting robability IMPACT DESCRIPTION Direction of Impact | Degree of Certainty patial SOC-3 Social Environment CLOSURE PHASE 5 5 0 0 0 0 0 0 NO ADDITIONAL IMACT Impact 1 NO NO NO NO NO NO No Impact Definite 1 1 1 Mitigation 0 0 0 0 0 0 None Required. Measure: NO NO NO NO NO NO 0 0 0 0 0 0 0 0 0 0 0 0 0 BEFORE MITIGATION No Impact Definite COMBINED NO #N/A #N/A #N/A NO NO #N/A #N/A #N/A NO NO #N/A #N/A #N/A NO WEIGHTED 0 0 0 0 0 0 0 0 0 0 0 0 RATING AFTER MITIGATION No Impact Definite (If mitigation is effective / possible this rating wil decrease) NO #N/A #N/A #N/A NO NO #N/A #N/A #N/A NO #N/A NO #N/A #N/A NO 2 2.7 2 3 3 5 3 5 2.7 2 3 3 5 2.7 STATUS QUO INITIAL BASELINE IMPACTS TO ENVIRONMENT Positive Probable LOW LOCAL MED MOD LOW LOCAL MED MOD LOW LOCAL MED MOD 2 5 2.7 2 3 3 5 2.7 5 5 4 5 4.7 CUMULATIVE INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM 3 3 Positive Probable Neg IMPACT PROJECT, BEFORE MITIGATION LOW LOCAL MED LOW MOD LOCAL MED MOD NAT LONG OCCUR VHIGH

2 3

Positive

Probable

4 3

LOW LOCAL LONG COULD

1.8

LOW

2

3 4 3

LOW LOCAL LONG COULD

1.8

LOW

5 5

NAT

4 5

LONG

4.7

INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM

PROJECT, AFTER MITIGATION

RESIDUAL

IMPACT

Rated By: Warren Kok ALTERNATIVES:
Reviewed By:

| Reviewed By:           |  |                     |                     |           |           | S       | ite 1    |             |             |           |           | Site    | 3A + 3B  |             |             |           |           | "N      | 10-G0"   |             |             |
|------------------------|--|---------------------|---------------------|-----------|-----------|---------|----------|-------------|-------------|-----------|-----------|---------|----------|-------------|-------------|-----------|-----------|---------|----------|-------------|-------------|
|                        | IMPACT DESCRIPTION   | Direction of Impact | Degree of Certainty | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk |
| EC-3                   | Economic   |                     |                     |           |           |         |          |             |             |           |           |         |          |             |             |           |           |         |          |             |             |
|                        | CLOSURE PHASE  |                     |                     | 5         |           |         |          |             |             | 5         |           |         |          |             |             | 5         |           |         |          |             |             |
| Impact 1               | NO ADDITIONAL IMACT  |                     |                     |           | 0         |         |          |             | 0           |           | 0         |         |          |             | 0           |           | 0         |         |          |             | 0           |
| Mitigation             |  | No Impact           | Definite            | 1         | NO        |         |          |             | NO<br>0     | 1         | NO        |         |          |             | NO<br>0     | 1         | NO        |         |          |             | NO<br>0     |
| Mitigation<br>Measure: | None Required.   |                     |                     |           | 0<br>NO   |         |          |             | NO          |           | 0<br>NO   |         |          |             | NO          |           | 0<br>NO   |         |          |             | NO          |
|                        | BEFORE MITIGATION  | No Impact           | Definite            |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |
| COMBINED<br>WEIGHTED   |  | ito impacc          | Demine.             |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |
| _                      | AFTER MITIGATION   | No Impact           | Definite            |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |
|                        | (If mitigation is effective / possible this rating wil decrease) | No impact           | Deminte             |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |
| STATUS OUG             | INITIAL DACCIONE INADACTO TO ENVIDONIMAENT                       | Positive            | Definite            |           | 2         | 3       | 3        | 5           | 2.7         |           | 2         | 3       | 3        | 5           | 2.7         |           | 2         | 3       | 3        | 5           | 2.7         |
| STATUS QUO             | INITIAL BASELINE IMPACTS TO ENVIRONMENT                          | Positive            | Definite            |           | LOW       | LOCAL   | MED      | OCCUR       | MOD         |           | LOW       | LOCAL   | MED      | OCCUR       | MOD         |           | LOW       | LOCAL   | MED      | OCCUR       | MOD         |
| CUMULATIVE             | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM         | Positive            | Definite            |           | 3         | 3       | 3        | 5           | 3           |           | 3         | 3       | 3        | 4           | 2.4         | Neg       | 5         | 5       | 4        | 5           | 4.7         |
| IMPACT                 | PROJECT, BEFORE MITIGATION                                       | 1 ositive           | Demitte             |           | MOD       | LOCAL   | MED      | OCCUR       | MOD         |           | MOD       | LOCAL   | MED      | VLIKE       | MOD         | 1.05      | VHIGH     | NAT     | LONG     | OCCUR       | VHIGH       |
| RESIDUAL               | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM         | Positive            | Definite            |           | 2         | 3       | 4        | 3           | 1.8         |           | 3         | 3       | 3        | 4           | 2.4         | Neg       | 5         | 5       | 4        | 5           | 4.7         |
| IMPACT                 | PROJECT, AFTER MITIGATION  | FUSILIVE            | Delilite            |           | LOW       | LOCAL   | LONG     | COULD       | LOW         |           | MOD       | LOCAL   | MED      | VLIKE       | MOD         | iveg      | VHIGH     | NAT     | LONG     | OCCUR       | VHIGH       |

| nated by.    | Waltell Rok  |                     |                     |           | MATIVES   |         |          |             |             |           |           |         |          |             |             | _         |           |         |          |             |             |
|--------------|--|---------------------|---------------------|-----------|-----------|---------|----------|-------------|-------------|-----------|-----------|---------|----------|-------------|-------------|-----------|-----------|---------|----------|-------------|-------------|
| Reviewed By: |  |                     |                     |           |           | S       | Site 1   |             |             |           |           | Site    | 3A + 3B  |             |             |           |           | "N      | 0-G0"    |             |             |
|              | IMPACT DESCRIPTION   | Direction of Impact | Degree of Certainty | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk |
| INF-3        | Infrastructure   |                     |                     |           |           |         |          |             |             |           |           |         |          |             |             |           |           |         |          |             |             |
|              | CLOSURE PHASE  |                     |                     | 5         |           |         |          |             |             | 5         |           |         |          |             |             | 5         |           |         |          |             |             |
| Impact 1     | NO ADDITIONAL IMACT  |                     |                     |           | 0         |         |          |             | 0           |           | 0         |         |          |             | 0           |           | 0         |         |          |             | 0           |
|              |  | No Impact           | Definite            | 1         | NO        |         |          |             | NO          | 1         | NO        |         |          |             | NO          | 1         | NO        |         |          |             | NO          |
| Mitigation   | None Required.   |                     |                     | _         | 0         |         |          |             | NO<br>NO    | _         | 0         |         |          |             | 0           | _         | 0         |         |          |             | 0           |
| Measure:     |  |                     |                     |           | NO        |         |          |             |             |           | NO        |         |          |             | NO          |           | NO        |         |          |             | NO          |
|              | BEFORE MITIGATION  | No Impact           | Definite            |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | U           |           | 0         | 0       | 0        | 0           | 0           |
| COMBINED     |  |                     |                     |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |
| RATING       | AFTER MITIGATION   |                     | - 4 .               |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |
|              | (If mitigation is effective / possible this rating wil decrease) | No Impact           | Definite            |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |
|              |  |                     | - 4 .               |           | 3         | 2       | 3        | 5           | 2.7         |           | 3         | 2       | 3        | 5           | 2.7         |           | 3         | 2       | 3        | 5           | 2.7         |
| STATUS QUO   | INITIAL BASELINE IMPACTS TO ENVIRONMENT                          | Negative            | Definite            |           | MOD       | STUDY   | MED      | OCCUR       | MOD         |           | MOD       | STUDY   | MED      | OCCUR       | MOD         |           | MOD       | STUDY   | MED      | OCCUR       | MOD         |
| CUMUI ATIVE  | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM         |                     |                     |           | 5         | 5       | 3        | 5           | 4.3         |           | 5         | 5       | 3        | 5           | 4.3         |           | 3         | 2       | 3        | 5           | 2.7         |
| IMPACT       | PROJECT, BEFORE MITIGATION                                       | Negative            | Definite            |           | VHIGH     | NAT     | MED      | _           |             |           | VHIGH     | NAT     | MED      | OCCUR       |             |           |           | STUDY   |          | OCCUR       | MOD         |
| RESIDUAL     | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM         |                     |                     |           | 3         | 2       | 3        | 5           | 2.7         |           | 3         | 2       | 3        | 5           | 2.7         |           | 3         | 2       | 3        | 5           | 2.7         |
| IMPACT       | PROJECT, AFTER MITIGATION  | Negative            | Definite            |           | MOD       | STUDY   | MED      | OCCUR       | MOD         |           | MOD       | STUDY   | MED      | OCCUR       | MOD         |           | MOD       | STUDY   | MED      | OCCUR       | MOD         |

| n i in            |  |                     | ĺ                   |           |           |         |          |             |             |           |           |         |          |             |             | _         |           |         | "        |             |             |
|-------------------|--|---------------------|---------------------|-----------|-----------|---------|----------|-------------|-------------|-----------|-----------|---------|----------|-------------|-------------|-----------|-----------|---------|----------|-------------|-------------|
| Reviewed By:      |  |                     |                     |           |           |         | ite 1    |             |             |           |           | Site    | 3A + 3E  |             |             |           |           | "N      | 0-G0"    |             |             |
|                   | IMPACT DESCRIPTION   | Direction of Impact | Degree of Certainty | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk |
| V-3               | Visual   |                     |                     |           |           |         |          |             |             |           |           |         |          |             |             |           |           |         |          |             |             |
|                   | CONSTRUCTION PHASE   |                     |                     | 5         |           |         |          |             |             | 5         |           |         |          |             |             | 5         |           |         |          |             |             |
| Impact 1          | Capping of Ash Dam   |                     |                     |           | 1         | 2       | 2        | 2           | 0.7         |           | 1         | 2       | 2        | 1           | 0.3         |           | 0         |         |          |             | 0           |
|                   | capping of Asia built  | Positive            | Probable            | 5         | VLOW      | STUDY   | SHORT    | UNLIKE      | VLOW        | 5         | _         |         | SHORT    |             | VLOW        | 1         | NO        |         |          |             | NO          |
| Mitigation        | Utilise indigenous seedmix   |                     |                     |           | 3         | 3       | 4        | 5           | 3.3         |           | 3         | 3       | 4        | 5           | 3.3         | _         | 0         |         |          |             | 0           |
| Measure:          | -  |                     |                     |           | MOD       |         | LONG     | OCCUR       |             |           | MOD       |         | LONG     | OCCUR       | HIGH        |           | NO        |         |          |             | NO          |
|                   | BEFORE MITIGATION  | Positive            | Probable            |           | 1         | 2       | 2        | 2           | 0.7         |           | 1         | 2       | 2        | 1           | 0.3         |           | 0         | 0       | 0        | 0           | 0           |
| COMBINED WEIGHTED |  |                     |                     |           | VLOW      | STUDY   | SHORT    | UNLIKE      | VLOW        |           | VLOW      | STUDY   | SHORT    | IMPOS       | VLOW        |           | NO        | #N/A    | #N/A     | #N/A        | NO          |
| -                 | AFTER MITIGATION   |                     |                     |           | 3         | 3       | 4        | 5           | 3.3         |           | 3         | 3       | 4        | 5           | 3.3         |           | 0         | 0       | 0        | 0           | 0           |
| _                 | (If mitigation is effective / possible this rating wil decrease)   | Positive            | Probable            |           | MOD       | LOCAL   | LONG     | OCCUR       | HIGH        |           | MOD       | LOCAL   | LONG     | OCCUR       | HIGH        |           | NO        | #N/A    | #N/A     | #N/A        | NO          |
|                   |  |                     |                     |           | 4         | 3       | 4        | 5           | 3.7         |           | 4         | 3       | 4        | 5           | 3.7         |           | 4         | 3       | 4        | 5           | 3.7         |
| STATUS QUO        | INITIAL BASELINE IMPACTS TO ENVIRONMENT  | Negative            | Definite            |           | HIGH      | LOCAL   | LONG     | OCCUR       |             |           | HIGH      |         | LONG     | -           |             |           | HIGH      | LOCAL   | LONG     | OCCUR       | _           |
| 61124111 ATN /5   | THE PROPERTY OF THE PROPERTY O |                     |                     |           | 4         | 2       | LONG     | 5           | 3.7         |           |           | 3       | 4        | 5           | 3.7         |           | 4         | 3       | LONG     | 5           | 3.7         |
|                   | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM<br>PROJECT, <b>BEFORE MITIGATION</b>  | Negative            | Probable            |           | 4         | 3       | 4        | _           |             |           | 4         |         |          |             |             |           |           | -       | 4        | -           |             |
| IIVIFACI          | FROJECI, BEFORE WITHGATION   |                     |                     |           |           | LOCAL   | LONG     | OCCUR       |             |           |           |         | LONG     |             |             |           | HIGH      | LOCAL   | LONG     | OCCUR       |             |
|                   | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM   | Negative            | Probable            |           | 3         | 3       | 4        | 4           | 2.7         |           | 3         | 3       | 4        | 5           | 3.3         |           | 3         | 3       | 4        | 5           | 3.3         |
| IMPACT            | PROJECT, AFTER MITIGATION  | .524114             |                     |           | MOD       | LOCAL   | LONG     | VLIKE       | MOD         |           | MOD       | LOCAL   | LONG     | OCCUR       | HIGH        |           | MOD       | LOCAL   | LONG     | OCCUR       | HIGH        |

| nated by:              | Trainen Non  |                     |                     |           |           |         |          |             |             |           |           |         |          |             |             |           |           |         |          |             |             |
|------------------------|--|---------------------|---------------------|-----------|-----------|---------|----------|-------------|-------------|-----------|-----------|---------|----------|-------------|-------------|-----------|-----------|---------|----------|-------------|-------------|
| Reviewed By:           |  |                     |                     |           |           | S       | Site 1   | ,           |             |           | ,         | Site    | 3A + 3E  | }           |             |           |           | "N      | 0-G0"    | ,           | •           |
|                        | IMPACT DESCRIPTION   | Direction of Impact | Degree of Certainty | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk | Weighting | Magnatude | Spatial | Temporal | Probability | Impact Risk |
| ArCH-3                 | Archaeology, Palaeontology, Cultural Heritage                    |                     |                     |           |           |         |          |             |             |           |           |         |          |             |             |           |           |         |          |             |             |
|                        | CLOSURE PHASE  |                     |                     | 5         |           |         |          |             |             | 5         |           |         |          |             |             | 5         |           |         |          |             |             |
| Impact 1               | NO ADDITIONAL IMPACT   |                     |                     |           | 0         |         |          |             | 0           |           | 0         |         |          |             | 0           |           | 0         |         |          |             | 0           |
|                        |  | No Impact           | Definite            | 1         | NO        |         |          |             | NO          | 1         | NO        |         |          |             | NO          | 1         | NO        |         |          |             | NO          |
| Mitigation<br>Measure: | Mitigation:  |                     |                     |           | 0<br>NO   |         |          |             | NO          |           | 0<br>NO   |         |          |             | NO.         |           | 0<br>NO   |         |          |             | 0<br>NO     |
| Wedsure.               |  |                     |                     |           | 0         | n       | 0        | n           | 0           |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |
| COMBINED               | BEFORE MITIGATION  | No Impact           | Definite            |           | U         |         |          |             | _           |           |           |         |          |             | 0           |           |           |         | _        |             |             |
| WEIGHTED               |  |                     |                     |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |
| RATING                 | AFTER MITIGATION   | No Impact           | Definite            |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |           | 0         | 0       | 0        | 0           | 0           |
|                        | (If mitigation is effective / possible this rating wil decrease) | No impact           | Deminte             |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |           | NO        | #N/A    | #N/A     | #N/A        | NO          |
| STATUS 0110            | INITIAL DASSUBIS IN ADASTS TO SANCIDONIA SALT                    | No. 1               | 5.6.1               |           | 0         |         |          |             | 0           |           | 0         |         |          |             | 0           |           | 0         |         |          |             | 0           |
| STATUS QUU             | INITIAL BASELINE IMPACTS TO ENVIRONMENT                          | No Impact           | Definite            |           | NO        |         |          |             | NO          |           | NO        |         |          |             | NO          |           | NO        |         |          |             | NO          |
| CUMULATIVE             | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM         |                     |                     |           | 0         |         |          |             | 0           |           | 0         |         |          |             | 0           |           | 0         |         |          |             | 0           |
| IMPACT                 | PROJECT, <b>BEFORE MITIGATION</b>                                | No Impact           | Definite            |           | NO        |         |          |             | NO          |           | NO        |         |          |             | NO          |           | NO        |         |          |             | NO          |
| RESIDUAL               | INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM         | No locate           | Definite            | ,         | 0         |         |          |             | 0           |           | 0         |         |          |             | 0           |           | 0         |         |          |             | 0           |
| IMPACT                 | PROJECT, AFTER MITIGATION  | No Impact           | Definite            |           | NO        |         |          |             | NO          |           | NO        |         |          |             | NO          |           | NO        |         |          |             | NO          |