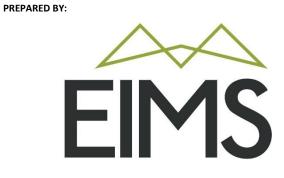


PREPARED FOR:

EcoPartners, NuVest Recovery Solutions (PTY) LTD



Environmental Site Sensitivity Verification Report

| Site ID: | NuVest Recovery Solutions | Contractor: | EIMS | |
|------------------------|---|------------------|----------------|--|
| Location: | 110 Batoliet road, Valley Settlements, Meyerton, South Africa | Inspector: | Jessica Jordan | |
| Client representative: | Ian Tunnicliffe, EcoPartners | Inspection Date: | 27-11-2023 | |

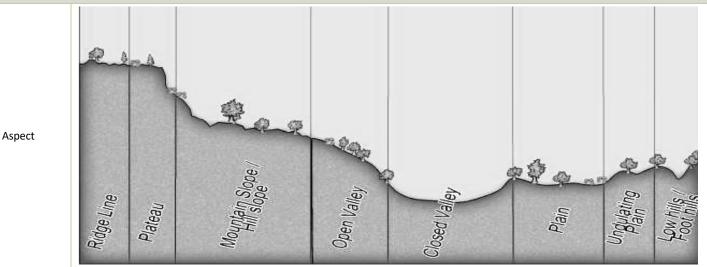
| 1. Background | | | | | | | | | | |
|--|---|---|---|----------------------------------|------------------|--|--|--|--|--|
| Background of the project: | manu hydro | The applicant wishes to develop a chemical manufacturing plant in Gauteng. Approximately 30 tonnes of chemicals will be manufactured daily at the plant. The plant will specialize in the production of sodium hydroxide (NaOH), chlorine (Cl ₂), and hydrogen (H ₂) through the chlor-alkali process. These products will then be processed further to produce hydrochloric (HCl) acid, bleach and caustic lye. Along with manufacturing, the products and commodity chemicals will be stored on-site. | | | | | | | | |
| | | | | Locatio | n (DD MM SS) | | | | | |
| Project Aspects: | Yes No Details (provide specifications) | | Latitude | Longitude | | | | | | |
| NuVest Recovery Solutions, 110 | | Development of chemical manufacturing plant | Development of chemical manufacturing plant | <u>Start</u> 26° 30′ 36.31″ S | 28° 02′ 37.43″ E | | | | | |
| Batoliet Road, Valley settlements. Meyerton, | Valley settlements. Meyerton, | | <u>Mid</u> 26° 30′ 38.20″ S | 28° 02′ 40.57″ E | | | | | | |
| South Africa | | | <u>End</u> 26° 30′ 39.92″ S | 28° 02′ 43.27″ E | | | | | | |
| Other: | | | | | | | | | | |
| 2. Site Layout Plan | | 1 | | | | | | | | |
| | | | | | | | | | | |



| Animal species | | | X | |
|---------------------------------|---|---|---|---|
| Aquatic Biodiversity | | | | X |
| Archaeological and | | | | X |
| Cultural Heritage | | | | |
| Civil Aviation | | х | | |
| Defence Theme | | | | Х |
| Palaeontology | Х | | | |
| Plant Species Theme | | | | X |
| Terrestrial Biodiversity | X | | | |
| | | | · | |

3. Site Assessment

3.1 Gradient (indicate the general gradient characteristics of site)



| NuVest <i>,</i> Meyerton | | | | [| | | | | | | | | |
|---|---|-----------------------|---|--------------------------------|--------------------|---------|--|--|-------------------|-------------|--|--------|-------|
| Is the site (Nu | Is the site (NuVest) located on or in the immediate vicinity of any of the following: | | | | | | | | | | | | |
| | | | | Reclamation site and pipelines | | | | | | | | | |
| | | | | | | Yes | Yes No Comment | | | | | | |
| Erosion Channels or areas of severe erosion/ destabilized soils | | | | | | | | | | | | | |
| Wetlands (within 32m) | | | | | | | | | | | | | |
| Unstable slopes or geological features (rocky outcrops) | | | | | | | | | | | | | |
| Bare areas | | | | | | | | Surface has been cleared for construction. | | | | | |
| Other Sensitive | e or risk aı | eas? | | | | | | | | | | | |
| Are any existing servitudes and structures directly or indirectly affected by the proposed sites and routes (e.g. Eskom, public road servitudes and restrictions- 60m from National Road, farmer's water/irrigation supplies, etc.)? | | | es and | | | | Entry to property is only accessible from the Batoliet road. There is an existing servitude road, serving as the current entrance. The client wishes to develop a second entrance (second servitude road) to serve as the main entrance, whereas the existing entrance will serve as the exit, after development. | | | | sting rrent lop a tude ance, | | |
| | | | | | | | | | | | | | |
| 3.2 Vegetation | ו | | | | | | | | | | | | |
| Which of the li | sted descr | iptions be | st describes the general | groundc | over on | and a | roun | d the site? | | | | | |
| Natural veld condition | - good | Natural aliens | veld with scattered | Natura heavy | al vel alien in | | th on | Veld dominated species 🛛 | by alien Gardens | | | | |
| Sport field 🗌 | | Cultivated | l land 🗌 | Paved | surface | | | Building or structure 🔀 | other Bare soil 🔀 | | | | |
| Comments composition: | on ve | getation | Approximately 30% of weed species. The rest | | | | | 0 0 | tation con | isists of m | ainly grasse | es and | b |
| Comments on | weed spe | cies/type | Eucalyptus trees, Agav | es, grass | ses, Bid | ens Pil | osa, | Black Wattle. | | | | | |
| | | | | | | | | | | | | | |
| Land cover/ us | se descrip | tion: Desc | ribe the land uses on th | e site | | | | | | | | | |
| NuVest | | elopment o strial. | of a chemical plant and | storage | tanks o | n an in | dust | rial property. The | surroundii | ng land us | ses are also | prim | arily |
| 4. General Cor | nments a | nd/or Reco | ommendations | | | | | | | | | | |
| Clients want to remove eucalyptus trees for construction of a road, and plant trees at the entrance of the site (on municipal ground). | | | | | | | | | | | | | |

Image is taken facing the north-western side of the property, towards the entrance to the Batoliet road (shown on the left). Eucalyptus trees

along border of property. Client wishes to remove the trees to pave a road along the site boundary.



Image is taken facing the south-western side of the property (the entrance to the Batoliet road will be on the right). A newly developed

- administration
 building is currently
 being constructed
 for NuVest
 - for NuVest Chemicals (right). The majority of the site's surface has been cleared.



 Photo is taken in northern corner of site, behind the secondary wall.



the southern side of the site (the entrance is situated behind the view). On left the is construction materials for the existing construction activity. The buildings are the * current office buildings and warehouses. The property boundary is marked by the white concrete pillar fence. of The rows eucalyptus trees are where the planned road is going to be constructed.



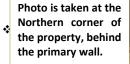




Photo is taken towards the South-Western area of the property. The warehouse and office are seen on the left and the * existing property to be demolished is seen in the middle at the far back. The property boundary is marked by the wall on the right.



The first warehouse
 with a concrete slab
 leading towards the
 second warehouse.





 Photo is taken facing the northern side of the site, this road
 ★ will be paved during construction phase. The warehouses are situated on the left.

The photo is taken facing the Southwestern boundary of the site, with the wall on the left marking the boundary of the property. The second warehouse is situated on the right, and on the left the emergency shower with the accompanying Jojo tank is on the concrete slab.



Photo is taken facing the South-eastern corner of the site, with the warehouses situated on the left.

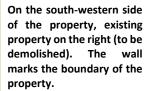
The inside of the first warehouse, at the back is the mixing tank.





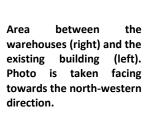
Sparse distribution of Wattle trees





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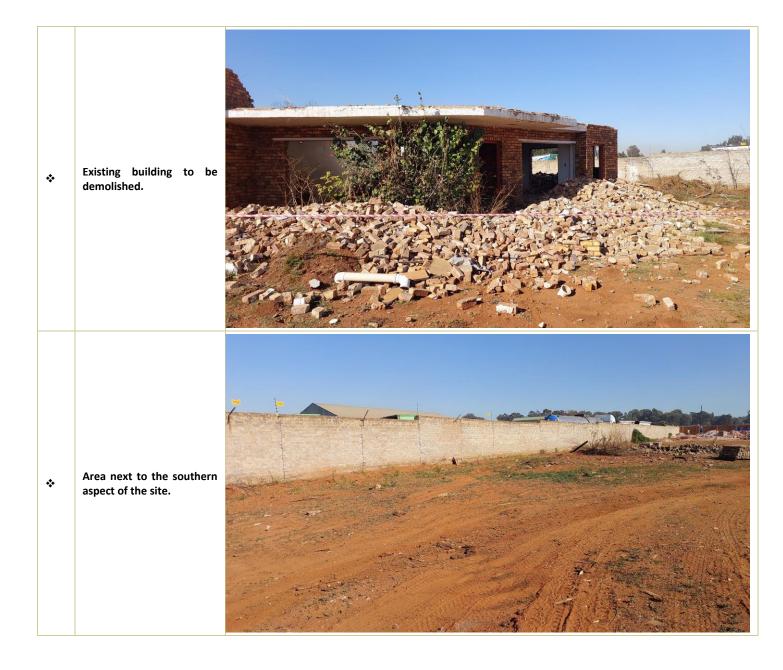
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7. Verification findings and motivation:

| Assessment for specialist st | udies and motivati | on: | | | |
|--|--------------------------|---------------------------|------------------------------|----|---|
| Screening Tool Specialist Study Required: | Level of Sensitivity: | Suggested Sensitivity: | Required level Assessment | of | Motivation |
| | | Low | None. | | |
| Aquatic Biodiversity | Low | | Compliance Statement | | No waterbodies were found within 50m of site boundaries or within site. |
| | | | Full Assessment | | |
| | | | Other | | |
| | | Low | None. | | |
| Archaeological and Cultural Heritage | Low | | Compliance Statement | | Area has been disturbed to such an extent that there are low chances of heritage |
| | | | Full Assessment | | findings. |
| | | | Other | | |
| | | Low | None. | | |
| Palaeontology | Very High | | Compliance Statement | | The excavation for the development of the plant and tank storage system will most likely |
| | | | Full Assessment | | not intersect palaeontology features. |
| | | | Other | | |
| Terrestrial Biodiversity | Very High | Low | None. | | |

| | | | Compliance Statement | The assessment must be prepared by a registered terrestrial biodiversity specialist. |
|---------------------|--------|----------------------|-------------------------|--|
| | | | Full Assessment | Area is disturbed to such an extent where natural processes have been interrupted and minimal indigenous species are found. |
| | | | Other | - |
| | | | None. | The nature of the development (storage facilities, chemical plant and a tank farm) and |
| Civil Aviation | High | Low | Compliance Statement | components of the development during the construction and operational phases will no pose any risk to commercial air traffic |
| | | | Full Assessment | Therefor no specialist aviation studies will be undertaken. However, SA CAA will be included in the I&AP database and requested |
| | | | Other | to comment. |
| | | | None | |
| Plant species theme | Low | Low | Compliance Statement | A compliance statement must be prepared by registered botanical/ecological specialist Area is disturbed to such an extent where natural processes have been interrupted and |
| | Low | Low | Full Assessment | minimal indigenous species are found. The majority of the biodiversity consists of alien vegetation. |
| | | | Other | vegetation. |
| | | | None | |
| Defence Theme | Low | Low | Compliance Statement | |
| | | | Full Assessment | |
| | | | Other | |
| | | | None. | <30% of site is categorized as high sensitivity therefor the site can be considered as a |
| Agriculture Theme | High | Medium Low | Compliance Statement | medium sensitivity site. A compliance statement needs to be prepared by a registered soil/agricultural specialist. Due to removal of most topsoil and land |
| | | LOW | Full Assessment | reworks for construction, the potential fo and impact on agriculture is low. The |
| | | | Other | surrounding area is also currently utilied fo industrial purposes. |
| | | | None. | The medium sensitivity is attributed to the presence of the <i>Mammalia-Crocidure</i> |
| Animal Species | Medium | low | Compliance Statement | macquassiensis, however the chances o locating these shrews on-site is low as the prefer moist habitats and wetlands fo |
| | | | Full Assessment | habitats. There is no surrounding wetland. No indigenous species were observed or site, save for a couple of Crowned Lapwing: |
| | | | Other | (no visible nest was seen). |

Guidance notes:

• An applicant intending to undertake an activity identified in the scope of this protocol, on a site identified by the screening tool as being of "very high" or "high" sensitivity for terrestrial animal species must submit a Terrestrial Animal Species Specialist Assessment Report.

- An applicant intending to undertake an activity identified in the scope of this protocol on a site identified by the screening tool as being of "medium sensitivity" for terrestrial animal species must submit either a Terrestrial Animal Species Specialist Assessment Report or a Terrestrial Animal Species Compliance Statement, depending on the outcome of a site inspection undertaken in accordance with paragraph 4.
- An applicant intending to undertake an activity identified in the scope of this protocol on a site identified by the screening tool as being of "low" sensitivity for terrestrial animal species must submit a Terrestrial Animal Species Compliance Statement.
- Where the information gathered from the site sensitivity verification differs from the screening tool designation of "very high" or "high", for terrestrial animal species sensitivity and it is found to be of a "low" sensitivity, then a Terrestrial Animal Species Compliance Statement must be submitted.
- Where the information gathered from the site sensitivity verification differs from the screening tool designation of "low" terrestrial animal species sensitivity and it is found to be of a "very high" or "high" terrestrial animal species sensitivity, a Terrestrial Animal Species Specialist Assessment must be conducted.
- If any part of the development falls within an area of confirmed "very high" or "high" sensitivity, the assessment and reporting requirements prescribed for the "very high" or "high" sensitivity, apply to the entire development footprint. Development footprint in the context of this protocol means, the area on which the proposed development will take place and includes the area that will be disturbed or impacted.