GROUNDWATER RESOURCE RISK GROUNDWATER RESOURCE RISK CLASSES CROSS SECTION A - B Gunn Point tip LOW - Fresh and annual recharge Mapping the Future Project - Gunn Point Koolpinyah Bankers Jungle Fresh water quality (EC <1000 us/cm), annual recharge, not impacted by saline groundwater. Shallow depth access to 40 7 **A** 5 sediments productive aquifer. **GROUNDWATER RESOURCES** MINOR - Fresh but limited annual recharge Class 2 Fresh water quality (EC <1000 us/cm), minor to no annual recharge, not impacted by saline groundwater. Medium to of the GUNN POINT AREA deep depth access to productive aquifer. MODERATE - Fresh to brackish and saline impacted Class 3 Fresh to brackish groundwater (EC 450 - 2000 us/cm), For further information contact: Bibliographic reference: impacted by saline groundwater. Mixed depth access to Department of Environment and Natural Resources Woltmann, M. (2020) Bathurst Island Formation Mapping the Future Project HIGH - Brackish and saline impacted Groundwater Resources of the Gunn Point Area. https://denr.nt.gov.au/developmentopportunities Brackish groundwater (EC >2000 us/cm), impacted by Technical Report 5/2020 saline groundwater. Deep depth access to aquifer. Department Environment and Natural Resources, Darwin, NT. Water Resources Division Ph. (08) 8999 4455 Email: waterresources@nt.gov.au Level 4, Goyder Centre, 25 Chung Wah Terrace, Palmerston, Northern Territory of Australia BORE YIELD CLASSES MAP LOCALITY - Darwin and/or Plover Formations 0 to 1 L/s 1 to 2 L/s 2 to 5 L/s Koolpinyah Dolostone NT Por 201 5 to 10 L/s Koolpinyah Dolostone Fold (low permeability) NORTHERN 30000 TENNANT CREEK Distance (metres) **TERRITORY** CROSS SECTION C - D Adelaide River Murrumujuk beach Narrows ALICE SPRINGS 🕨 BORE LOCATIONS Quaternary and Tertiary sediments **Water Management Zone** Cartography by: Deborah Mullin - Geospatial Services Department of Environment and Natural Resources, Tree Point Bathurst Island Formation Northern Territory of Australia. Conservation Map Reference: DENR2019172 MTF Gunn-Point Water March 2020 Darwin and/or Plover Formations Koolpinyah Dolostone Koolpinyah Dolostone Koolpinyah Dolostone Fold (low permeability) Melacca This map was produced Swamp Conservation GDA of Australia 1994 (GDA 94) Coastal / Distance (metres) NT Pør 5911 PROPOSED HOWARD WATER MANAGEMENT ZONES GROUNDWATER RESOURCE RISK ASSESSMENT CRITERIA Proposed Water Management Zone Groundwater Resources Fully Central Allocated (as at March 2020) Water Management Zone Water Management Zone KOOLPINYAH NT Por 4476 Black numbered lines are 10 000 metre intervals of the Melacca Creek Spring Map Grid of Australia (MGA) Zone 52 Transverse Mercator Projection Horizontal Datum: GDA 94 Mapping the Future Project - Gunn Point Important Notice: The Department of Environment and Natural Resources has The project has identified land capability, water availability and biodiversity values to support land planning and inform development potential over the Gunn Point area. made every reasonable effort to provide current and accurate information, but it does not make any guarantees regarding Reports and maps can be viewed from the Mapping the Future webpage: https://denr.nt.gov.au/programs-and-strategies/mapping-the-future the accuracy, currency or completeness of the information. Napier, D., Edmeades, B. and Green, C. (2020). *Mapping the Future Project - Gunn Point.* Palmer, C. and Smit, N. (2020). Mapping the Future Project - Gunn Point. Mapping the Future Project - Gunn Point. Pastoral homestead This information is intended as a guide only. It does not Depth below surface to Productive Aquifer Geological Cross Sections Productive Aquifer Recharge and Discharge Development Potential of the Gunn Point Area. Marine and Coastal Biodiversity Assessment of the Gunn Point Area. Vegetation Communities of the Gunn Point Area. constitute professional advice and should not be relied upon Technical Report 3/2020 Technical Report 6/2020 Technical Report 8/2020 for legal, development, investment or other decisions. You Department of Environment and Natural Resources, Darwin, NT. Department of Environment and Natural Resources, Darwin, NT. Department of Environment and Natural Resources, Darwin, NT. **Depth Below** should obtain professional advice relevant to your specific **Water Quality** circumstances and needs. Stokeld, D., Leiper, I., Cuff, N., Cowie, I., Lewis, D. and Einoder, L. (2020). *Mapping the Future Project - Gunn Point.* Easey, D., Lynch, B. and Edmeades, B. (2020).

Mapping the Future Project - Gunn Point. **Productive Aquifer** Drainage area / line Discharge areas - spring fed rainforests Recharge and Discharge Biodiversity Assessment of the Gunn Point Area. Soil and Land Resources of the Gunn Point Area. **Productive** Spot height (m AHD) ... Technical Report 4/2020 Technical Report 7/2020 **Electrical Conductivity** Interpreted magnetics Department of Environment and Natural Resources, Darwin, NT. Department of Environment and Natural Resources, Darwin, NT. Aquifer General features data sources: ternational Public License Easey, D., Brocklehurst, P. and Emberg, J. (2017). and Logistics Department of Environment and Natural Resources
©Northern Territory Government Mapping the Future Project - Gunn Point. Agricultural Land Suitability Series, Report 7. Parks: Department of Tourism, Sport and Culture Soil and Land Suitability Assessment for Irrigated Agriculture in the Gunn Point Area. Groundwater Resources of the Gunn Point Area. Technical Report 7/2017D Technical Report 5/2020 Hydro features: Commonwealth of Australia (Bureau of Meteorology) 2014 Department of Environment and Natural Resources, Darwin, NT. Department of Environment and Natural Resources, Darwin, NT. Spot heights: Geoscience Australia. 2007. Geodata topo 250K. Series 3.