



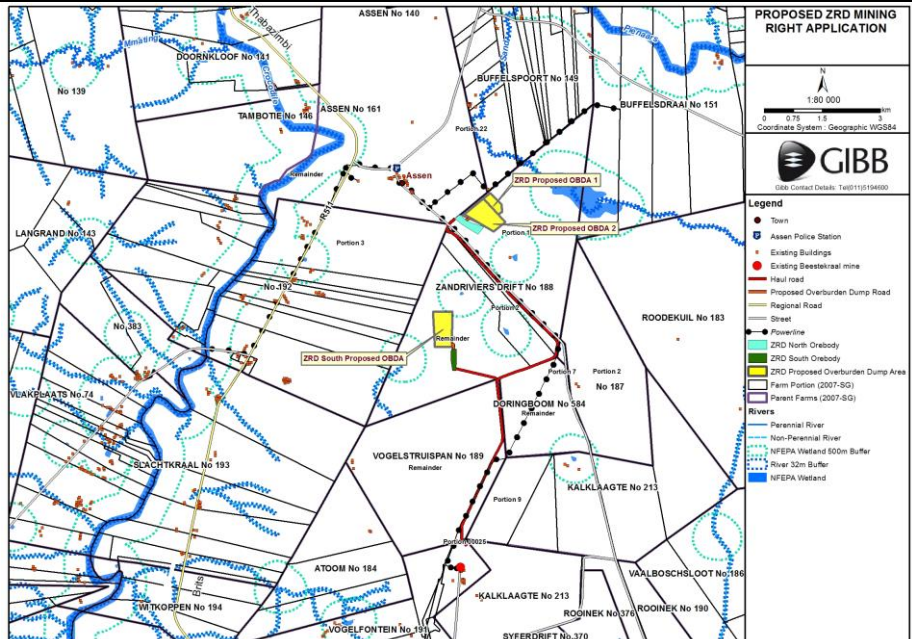
SCAN / SELECTED INFORMATION FOR

This scan was completed by GIBB's GIS unit on **2016/11/21**

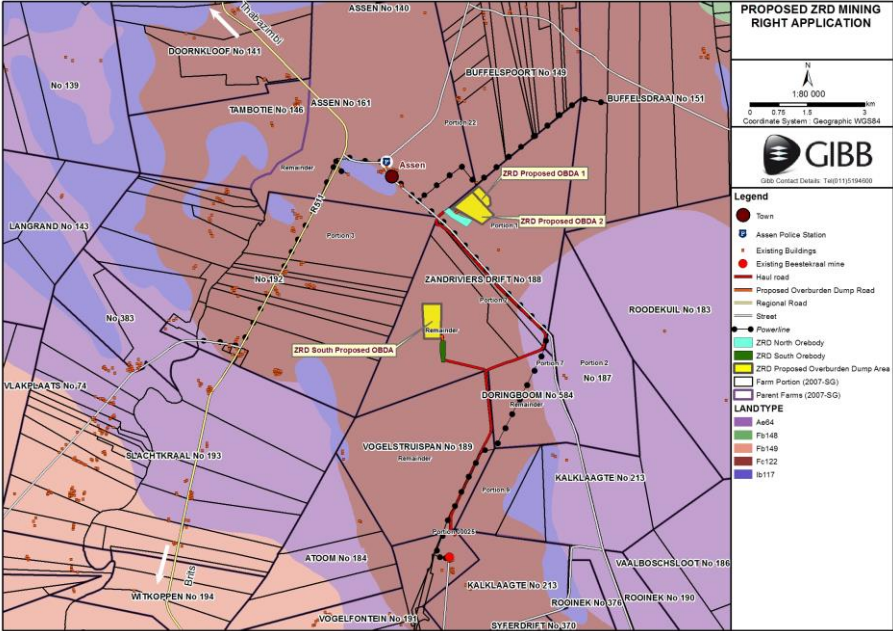
Please note that this information is to be used to flag issues that may arise during further investigation.

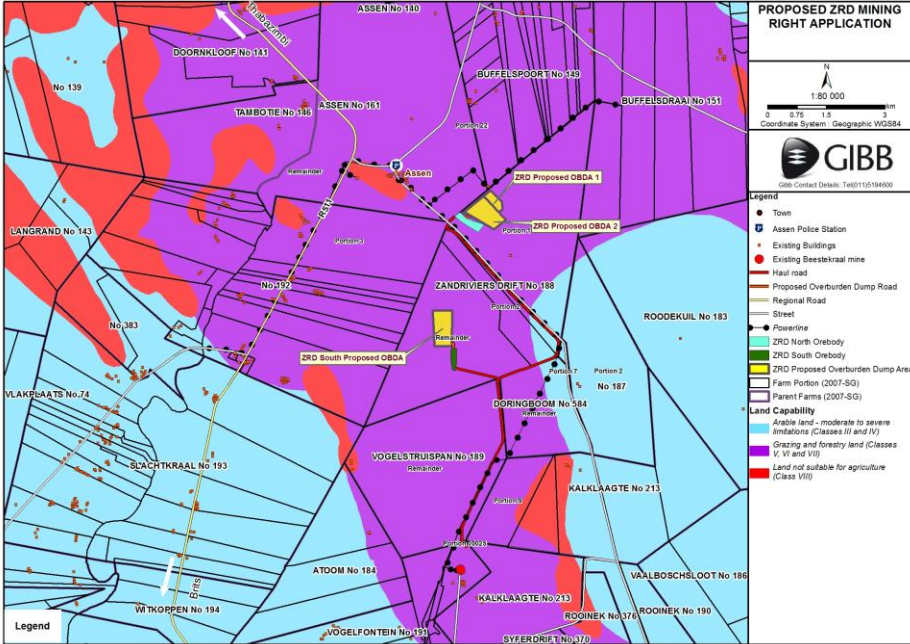
INDICATORS	SITE DETAILS	SOURCE
Topomap number	2527BA	Department of Rural Development & Land Reform. Chief Directorate: Surveys & Mapping 2009: Topomap. Cape Town: CDSM. Scale : 1: 50 000

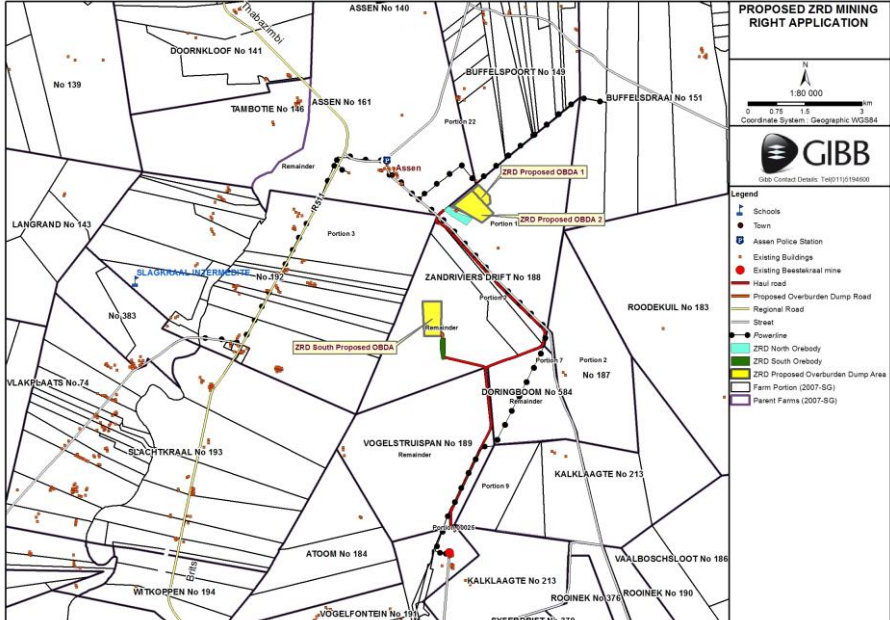
INDICATORS	SITE DETAILS	SOURCE
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Latitude/longitude (Degrees Minutes Seconds – DMS)	27°36'53.936"E 25°11'44.786"S	Derived from screen
Nearest town / nearest place	ASSEN	Municipal Demarcation Board. 2016
Province	North West	Municipal Demarcation Board. 2016
District municipality	Bojanala District municipality	Municipal Demarcation Board. 2016
Municipality	Bojanala Local Municipality	Municipal Demarcation Board. 2016
Ward number	63702001	Municipal Demarcation Board. 2016

INDICATORS	SITE DETAILS	SOURCE
Wetlands and rivers		<p>Department of Rural Development & Land Reform. Chief Directorate: Surveys & Mapping 2009: Hydrology. Cape Town: CDSM.</p> <p>* Appropriate for applying at a scale of 1:50 000.</p> <p>South African National Botanical Institute 2010. NFEPA. Cape Town: SANBI.</p> <p>* Appropriate for applying at a scale of 1:50 000.</p>

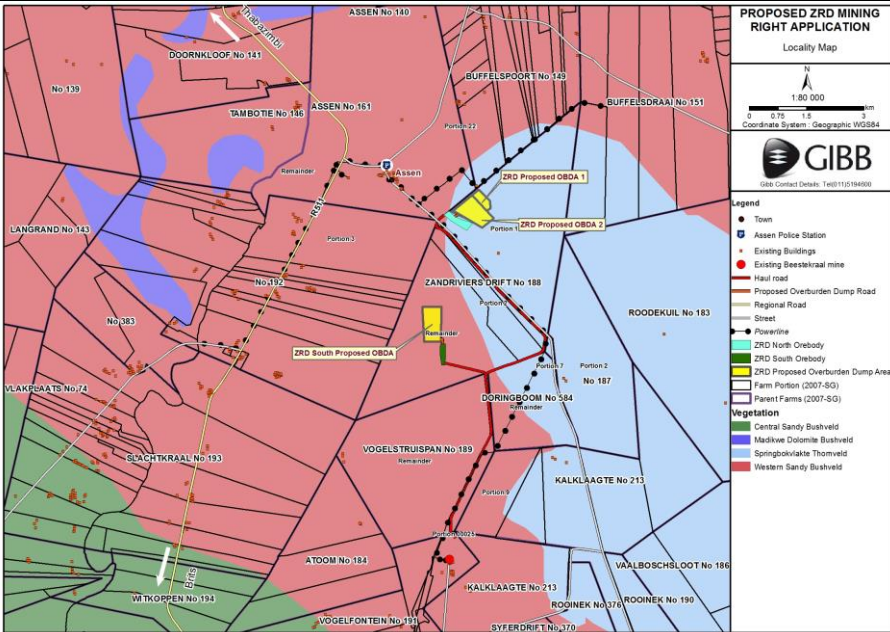
INDICATORS	SITE DETAILS	SOURCE
<p>Quaternary catchments</p>		<p>Department of Water Affairs & Forestry. Date unknown. Quaternary Catchments of South Africa. Pretoria: DEAT.</p> <p>* Appropriate for applying at a scale of 1:50 000.</p>

INDICATORS	SITE DETAILS	SOURCE
Land types	 <p>The map displays a mining right application area with various land types and infrastructure. Key features include:</p> <ul style="list-style-type: none">Land Types: Aa04 (purple), Fb148 (green), Fb149 (orange), Fb122 (red), and Ia117 (blue).Infrastructure: Roads (Doornkloof, Buffelspoort, Buffelsdraai, Zandvliet, Doringboom, Kalklaagte, Vaalbosch, Witkoppen, Vogelfontein, Syferdriif, Rooinnek, and Vaalbosch), a powerline, and a proposed overburden dump road.Mining Areas: ZRD Proposed OBDA 1, ZRD Proposed OBDA 2, ZRD South Proposed OBDA, and ZRD North Orebody.Other Features: Existing buildings, a proposed Beesekraal mine, and a proposed overburden dump area. <p>Legend:</p> <ul style="list-style-type: none">● Town■ Assen Police Station• Existing Buildings• Existing Beesekraal mine— Haul road— Proposed Overburden Dump Road— Regional Road— Street— Powerline— ZRD North Orebody— ZRD South Orebody— ZRD Proposed Overburden Dump Area□ Farm Portion (2007-001)□ Farm Portion (2007-002)□ Farm Portion (2007-003)□ Farm Portion (2007-004)□ Farm Portion (2007-005)□ Farm Portion (2007-006)□ Farm Portion (2007-007)□ Farm Portion (2007-008)□ Farm Portion (2007-009)□ Farm Portion (2007-010)□ Farm Portion (2007-011)□ Farm Portion (2007-012)□ Farm Portion (2007-013)□ Farm Portion (2007-014)□ Farm Portion (2007-015)□ Farm Portion (2007-016)□ Farm Portion (2007-017)□ Farm Portion (2007-018)□ Farm Portion (2007-019)□ Farm Portion (2007-020)□ Farm Portion (2007-021)□ Farm Portion (2007-022)□ Farm Portion (2007-023)□ Farm Portion (2007-024)□ Farm Portion (2007-025)□ Farm Portion (2007-026)□ Farm Portion (2007-027)□ Farm Portion (2007-028)□ Farm Portion (2007-029)□ Farm Portion (2007-030)□ Farm Portion (2007-031)□ Farm Portion (2007-032)□ Farm Portion (2007-033)□ Farm Portion (2007-034)□ Farm Portion (2007-035)□ Farm Portion (2007-036)□ Farm Portion (2007-037)□ Farm Portion (2007-038)□ Farm Portion (2007-039)□ Farm Portion (2007-040)□ Farm Portion (2007-041)□ Farm Portion (2007-042)□ Farm Portion (2007-043)□ Farm Portion (2007-044)□ Farm Portion (2007-045)□ Farm Portion (2007-046)□ Farm Portion (2007-047)□ Farm Portion (2007-048)□ Farm Portion (2007-049)□ Farm Portion (2007-050)□ Farm Portion (2007-051)□ Farm Portion (2007-052)□ Farm Portion (2007-053)□ Farm Portion (2007-054)□ Farm Portion (2007-055)□ Farm Portion (2007-056)□ Farm Portion (2007-057)□ Farm Portion (2007-058)□ Farm Portion (2007-059)□ Farm Portion (2007-060)□ Farm Portion (2007-061)□ Farm Portion (2007-062)□ Farm Portion (2007-063)□ Farm Portion (2007-064)□ Farm Portion (2007-065)□ Farm Portion (2007-066)□ Farm Portion (2007-067)□ Farm Portion (2007-068)□ Farm Portion (2007-069)□ Farm Portion (2007-070)□ Farm Portion (2007-071)□ Farm Portion (2007-072)□ Farm Portion (2007-073)□ Farm Portion (2007-074)□ Farm Portion (2007-075)□ Farm Portion (2007-076)□ Farm Portion (2007-077)□ Farm Portion (2007-078)□ Farm Portion (2007-079)□ Farm Portion (2007-080)□ Farm Portion (2007-081)□ Farm Portion (2007-082)□ Farm Portion (2007-083)□ Farm Portion (2007-084)□ Farm Portion (2007-085)□ Farm Portion (2007-086)□ Farm Portion (2007-087)□ Farm Portion (2007-088)□ Farm Portion (2007-089)□ Farm Portion (2007-090)□ Farm Portion (2007-091)□ Farm Portion (2007-092)□ Farm Portion (2007-093)□ Farm Portion (2007-094)□ Farm Portion (2007-095)□ Farm Portion (2007-096)□ Farm Portion (2007-097)□ Farm Portion (2007-098)□ Farm Portion (2007-099)□ Farm Portion (2007-100) <p>Scale: 1:1 000 000</p> <p>Coordinate System: Geographic WGS84</p> <p>GIBB</p> <p>PROPOSED ZRD MINING RIGHT APPLICATION</p>	<p>National Department of Agriculture, 2002: Final Report to Directorate Agricultural Land Resource Management. Development and application of a land capability classification system for South Africa. (Report GW/A/2000/57 of the Agricultural Research Commission - Institute for Soil, Climate and Water). Pretoria: ARC.</p> <p>* Appropriate for applying at a scale of 1:1 000 000 to 250 000.</p>

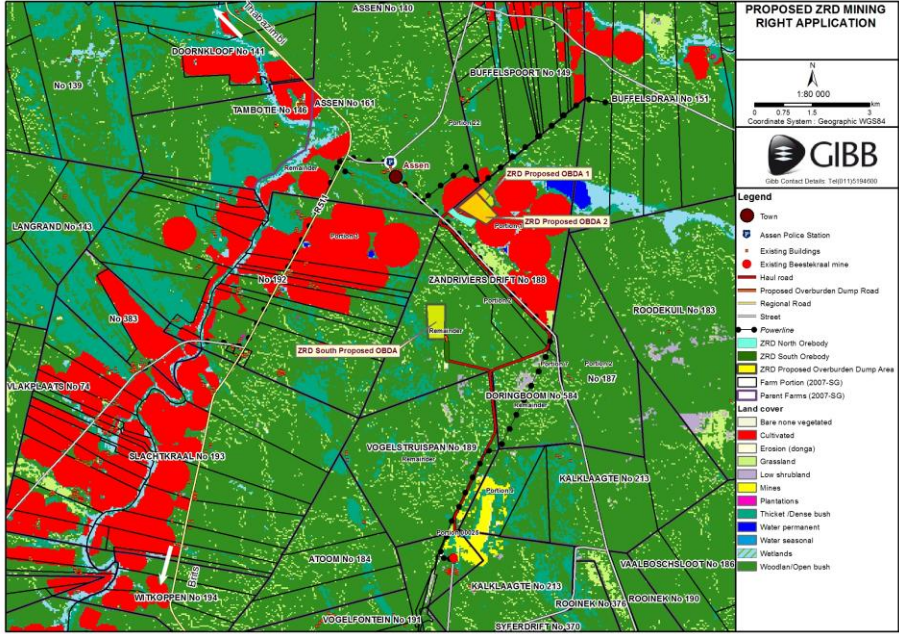
INDICATORS	SITE DETAILS	SOURCE
Land capability	 <p>The map displays a mining right application area with various land parcels and roads. Key features include: <ul style="list-style-type: none"> Land Capability: Color-coded areas representing different levels of agricultural suitability. Blue indicates 'Able land - moderate to severe limitations (Classes III and IV)', green indicates 'Grazing and forestry land (Classes V, VI and VII)', and red indicates 'Land not suitable for agriculture (Class VIII)'. Roads: A network of roads including regional roads (e.g., R101, R102), haul roads, and streets. Farm Names: Numerous farm names are labeled, such as ASSEN No 140, TAMBOTIE No 145, LANGRAND No 143, and ZRD Proposed OBDA 1 & 2. Infrastructure: Towns, police stations, and existing buildings are marked. Legend: A detailed legend on the right side of the map explains the symbols and colors used. </p>	<p>National Department of Agriculture, 2002: Final Report to Directorate Agricultural Land Resource Management. Development and application of a land capability classification system for South Africa. (Report GW/A/2000/57 of the Agricultural Research Commission - Institute for Soil, Climate and Water). Pretoria: ARC.</p> <p>* Appropriate for applying at a scale of 1:1 000 000 to 250 000.</p>
Aviation infrastructure	NONE	<p>Department of Rural Development & Land Reform. Chief Directorate: Surveys & Mapping. 2009: Avian Infrastructure. City of Cape Town: CDSM.</p> <p>* Appropriate for applying at a scale of 1:50 000.</p>
Medical facilities	NONE	<p>Municipal Demarcation Board 2003, Municipalities. Pretoria: MDB.</p> <p>* Appropriate for applying at a scale of 1:50 000.</p>

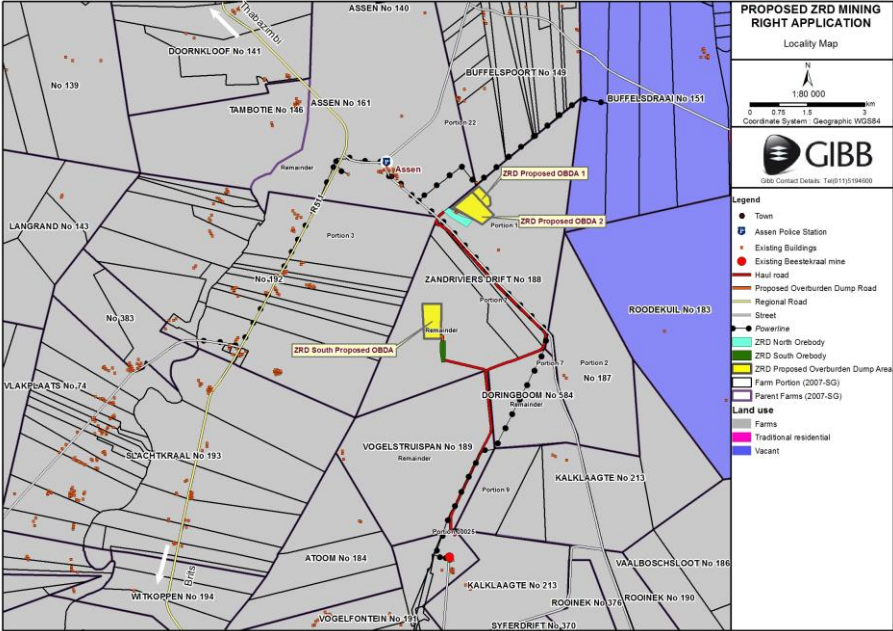
INDICATORS	SITE DETAILS	SOURCE
Educational facilities		<p>Municipal Demarcation Board 2003, Municipalities. Pretoria: MDB.</p> <p>* Appropriate for applying at a scale of 1:50 000.</p>
Heritage sites & Cultural sites	NONE	<p>Department of Environmental Affairs and Tourism 2001, ENPAT. Pretoria: DEAT</p> <p>* Appropriate for applying at a scale of 1:250 000.</p>
Conserved areas or Biosphere Reserves	NONE	<p>Department of Environmental Affairs and Tourism 2001, ENPAT. Pretoria: DEAT.</p> <p>* Appropriate for applying at a scale of 1:250 000.</p>

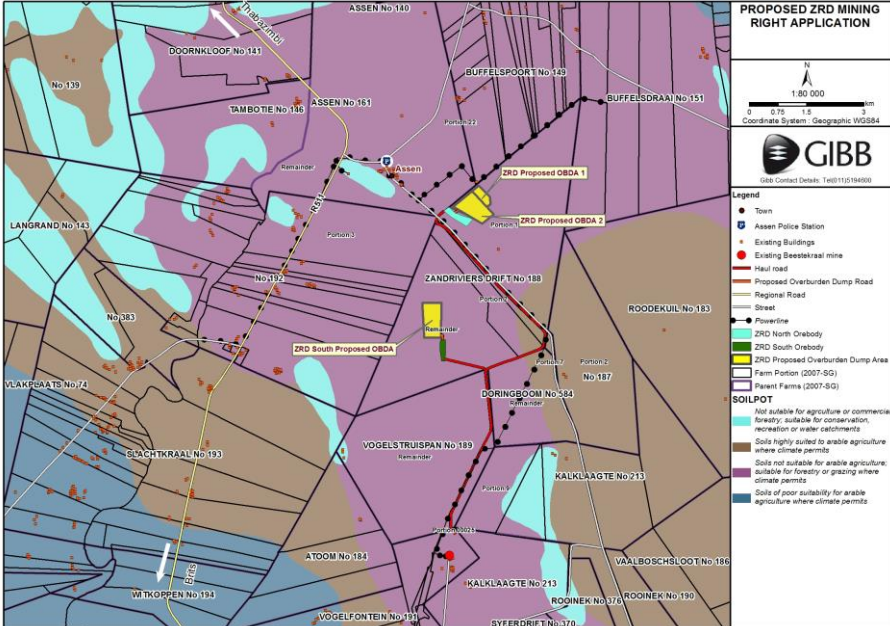
INDICATORS	SITE DETAILS	SOURCE
Protected areas		Department: of Environmental Affairs:2016
National Parks	NONE	Department: of Environmental Affairs:2016
National Protected Area Expansion Strategy Focus Areas	NONE	South African National Botanical Institute 2010. NPAES. Cape Town: SANBI. * Appropriate for applying at a scale of 1:250 000

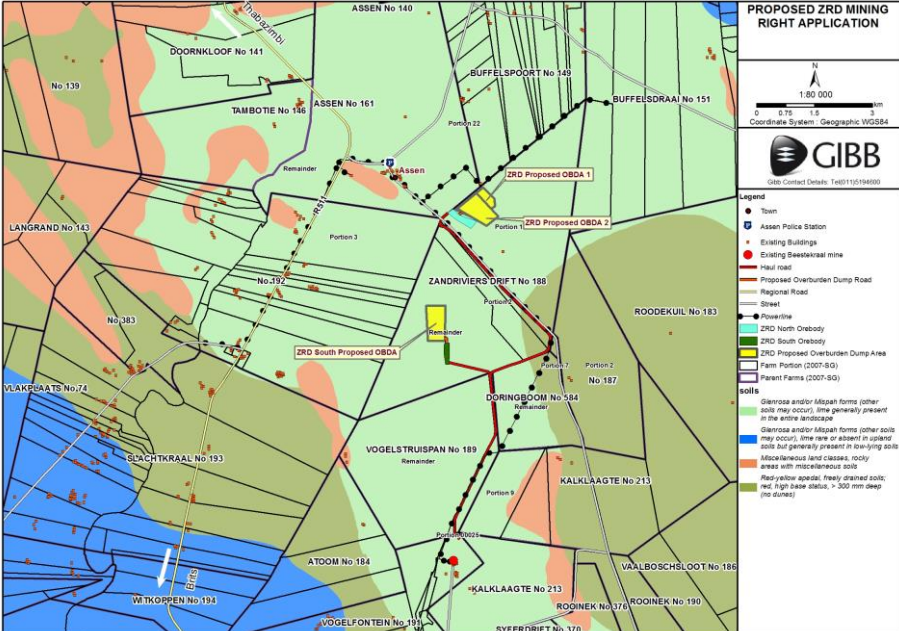
INDICATORS	SITE DETAILS	SOURCE
Vegmap		<p>South African National Botanical Institute. 2012: Vegetation Atlas of South Africa, Lesotho and Swaziland: VEGMAP. Cape Town: SANBI.</p>
Low & Rebelo: biomes & vegetation types	Savannah	<p>Low, A.B. & Rebelo,A.G. (edit.) 1996, Vegetation of South Africa, Lesotho and Swaziland. Pretoria: DEAT.</p> <p>* Appropriate for applying at a scale of 1:250 000.</p>
Acocks veld types	Mixed bushveld	<p>Acocks, J.P.H. 1988. Veld Types of South Africa. Mem. Bot. Surv. S. Afr. No. 57.</p> <p>* Appropriate for applying at a scale of 1:250 000.</p>
Flora	NONE	<p>Department of Environmental Affairs and Tourism 2001, ENPAT. Pretoria: DEAT</p> <p>* Appropriate for applying at a scale of 1:250 000.</p>
Fauna	SPECIAL HABITAT LOCATION	<p>Department of Environmental Affairs and Tourism 2001, ENPAT. Pretoria: DEAT.</p> <p>* Appropriate for applying at a scale of 1:250 000.</p>

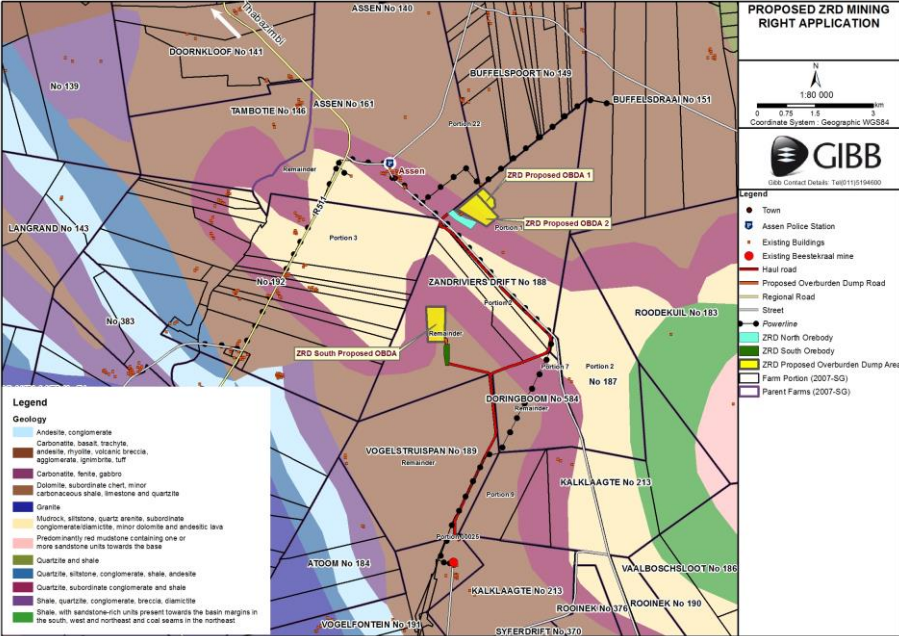
INDICATORS	SITE DETAILS	SOURCE
Powerlines		<p>ESKOM, 2004. ESKOM Distribution and Transmission lines. Johannesburg: ESKOM.</p> <p>* Appropriate for applying at a scale of 1:50 000.</p>

INDICATORS	SITE DETAILS	SOURCE
Land cover	 <p>The map displays a mining area with various land cover indicators. Key features include: <ul style="list-style-type: none"> Proposed ZRD Mining Right Application: Indicated by a red outline. Legend: <ul style="list-style-type: none"> Land cover: Bare none vegetated (white), Cultivated (red), Erosion (donga) (yellow), Grassland (green), Low shrubland (light green), Mines (yellow), Plantations (pink), Thicket/Dense bush (dark green), Water permanent (blue), Water seasonal (light blue), Wetlands (light green), Woodland/Open bush (dark green). Infrastructure: Town (black dot), Assen Police Station (blue square), Existing Buildings (red dot), Existing Beestekraal mine (red dot), Haul road (red line), Proposed Overburden Dump Road (red line), Regional Road (orange line), Street (black line), Powerline (black line), ZRD North Orebody (red line), ZRD South Orebody (red line), ZRD Proposed Overburden Dump Area (red line), Farm Portion (2007-SG) (white line), Farm Portion (2007-SG) (white line). Labels: DOORNKLOOF No 111, TAMBOTIE No 112, ASSEN No 101, BUFFELSPLOOT No 113, BUFFELSDRAAI No 151, ZRD Proposed OBDA 1, ZRD Proposed OBDA 2, SANDRIVIERSDORP No 103, ROODEKUIL No 113, DORINGBLOOM No 104, KALKLAAGTE No 213, VAALBOSCHSLOOT No 186, KALKLAAGTE No 213, ROOINEK No 190, ROOINEK No 190, EYERBRIJ No 170, VOGELFONTEIN No 101, ATOOM No 104, VOGELS TRUIESPAN No 103, SLACHTKRAAL No 193, WITKOPPEN No 194, VLAKEAATS No 91, No 103, No 102, No 101, No 100, No 101, No 102, No 103, No 104, No 105, No 106, No 107, No 108, No 109, No 110, No 111, No 112, No 113, No 114, No 115, No 116, No 117, No 118, No 119, No 120, No 121, No 122, No 123, No 124, No 125, No 126, No 127, No 128, No 129, No 130, No 131, No 132, No 133, No 134, No 135, No 136, No 137, No 138, No 139, No 140, No 141, No 142, No 143, No 144, No 145, No 146, No 147, No 148, No 149, No 150, No 151, No 152, No 153, No 154, No 155, No 156, No 157, No 158, No 159, No 160, No 161, No 162, No 163, No 164, No 165, No 166, No 167, No 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918, No 919, No 920, No 921, No 922, No 923, No 924, No 925, No 926, No 927, No 928, No 929, No 930, No 931, No 932, No 933, No 934, No 935, No 936, No 937, No 938, No 939, No 940, No 941, No 942, No 943, No 944, No 945, No 946, No 947, No 948, No 949, No 950, No 951, No 952, No 953, No 954, No 955, No 956, No 957, No 958, No 959, No 960, No 961, No 962, No 963, No 964, No 965, No 966, No 967, No 968, No 969, No 970, No 971, No 972, No 973, No 974, No 975, No 976, No 977, No 978, No 979, No 980, No 981, No 982, No 983, No 984, No 985, No 986, No 987, No 988, No 989, No 990, No 991, No 992, No 993, No 994, No 995, No 996, No 997, No 998, No 999, No 1000. </p>	<p>Satellite Application Center, 2000. Landcover. Pretoria: SAC.</p> <p>* Appropriate for applying at a scale of 1:50 000.</p>

INDICATORS	SITE DETAILS	SOURCE
Land use		Department of Environmental Affairs and Tourism 2001, ENPAT. Pretoria: DEAT. * Appropriate for applying at a scale of 1:250 000.

INDICATORS	SITE DETAILS	SOURCE
Soil potential	 <p>The map displays the proposed ZRD Mining Right Application area, overlaid on a cadastral map of farm portions. The map includes various geographical features and infrastructure. Key elements include:</p> <ul style="list-style-type: none"> Proposed ZRD Mining Right Application: Indicated by a black dashed line. Soil Potential Legend: <ul style="list-style-type: none"> Not suitable for agriculture or commercial forestry; suitable for conservation, recreation or water catchments (light blue). Soils highly suited to enable agriculture where climate permits (light green). Soils not suitable for enable agriculture; suitable for forestry or grazing where climate permits (dark green). Soils of poor suitability for enable agriculture where climate permits (dark blue). Other Features: Towns (Assen), Police Station, Existing Buildings, Existing Beesbeteraal mine, Haul road, Proposed Overburden Dump Road, Regional Road, Street, Powerline, ZRD North Orebody, ZRD South Orebody, ZRD Proposed Overburden Dump Area, Farm Portion (2007-SG), Parent Farms (2007-SG). 	<p>Department of Environmental Affairs and Tourism 2001, ENPAT. Pretoria: DEAT.</p> <p>* Appropriate for applying at a scale of 1:250 000.</p>

INDICATORS	SITE DETAILS	SOURCE
Soils	 <p>PROPOSED ZRD MINING RIGHT APPLICATION</p> <p>Scale: 1:80 000 Coordinate System: Geographic WGS84</p> <p>GIBB Globe Contact Details: Tel:011 5158600</p> <p>Legend</p> <ul style="list-style-type: none"> • Town • Assen Police Station • Existing Buildings • Existing Sweetwater mine • Road • Proposed Overburden Dump Road • Regional Road • Street • Powerline • ZRD North Orebody • ZRD South Orebody • ZRD Proposed Overburden Dump Area • Town Portion (2007-SG) • Parent Farms (2007-SG) <p>soils</p> <ul style="list-style-type: none"> • Glenrosa and/or Mpana forms (other soils may occur, time generally present in the entire landscape) • Glenrosa and/or Mpana forms (other soils may occur, time new or absent in upland soils but generally present in low-lying soils) • Miscellaneous land classes, rocky areas with miscellaneous soils • Red-yellow apedal, freely drained soils; red, light brown silts, > 300 mm deep (no dunes) 	<p>Department of Environmental Affairs and Tourism 2001, ENPAT. Pretoria: DEAT.</p> <p>* Appropriate for applying at a scale of 1:250 000.</p>

INDICATORS	SITE DETAILS	SOURCE
Geology	 <p>Legend</p> <p>Geology</p> <ul style="list-style-type: none"> Andesite, conglomerate Carbonate, basalt, trachyte Andesite, mylonite, volcanic breccia, agglomerate, ignimbrite, tuff Carbonate, ferrite, gabbro Dolomite, subordinate chert, minor carbonaceous shale, limestone and quartzite Gneiss Mudrock, siltstone, quartz arenite, subordinate conglomerate/diamictite, minor dolomite and andesitic lava Preponderantly red mudstone containing one or more sandstone units towards the base Quartzite and shale Quartzite, siltstone, conglomerate, shale, andesite Quartzite, subordinate conglomerate and shale Shale, quartzite, conglomerate, breccia, diamictite Shale, with sandstone-rich units present towards the basin margins in the south, west and northeast and coal seams in the northeast <p>Legend</p> <ul style="list-style-type: none"> Town Assen Police Station Existing Buildings Existing Beestekraal mine Haul road Proposed Overburden Dump Road Regional Road Street Powerline ZRD North Orebody ZRD South Orebody ZRD Proposed Overburden Dump Area Farm Portion (2007-SG) Parent Farms (2007-SG) 	<p>Department of Environmental Affairs and Tourism 2001, ENPAT. Pretoria: DEAT.</p> <p>* Appropriate for applying at a scale of 1:250 000.</p>
North West Critical Biodiversity Areas		<p>North West Department of Agriculture, Conservation & Environment, 2008: North West Critical Biodiversity Areas: DRAFT. Mmabato: NWDACE.</p> <p>* Appropriate for applying at a scale of 1:250 000.</p>