

JASNI YAAKUB

Pegawai Penyelidik Kanan

Institut Alam Sekitar dan Pembangunan (LESTARI)

Pusat Penyelidikan: Sains Governans Kelestarian
Bidang Pengkhususan Penyelidikan:

- Governans untuk pembangunan mampan dan kelestarian
- Kelestarian sumber tabii (sumber geologi, air, mineral dan guna tanah)
- Kawasan Sensitif Alam Sekitar
- Geologi dan hidrogeologi

Penyelidikan berkaitan pembangunan mampan dan kelestarian yang telah dijalankan. Disenaraikan di bawah beberapa aspek utama ke arah sasaran pembangunan mampan.



- Sains dan Governans untuk Pembangunan Lestari (UKM-XX-05-FGRS0005-2006), Kementerian Pengajian Tinggi.
- Sains dan Governans Kelestarian: Pembangunan Kerangka Integratif (XX-009-2003).
- Dasar Kawasan Sensitif Alam (KSAS) Selangor, Jabatan Perancang Bandar dan Desa, State of Selangor.
- Pelaksanaan Agenda 21 Tempatan di Majlis Daerah Kuala Selangor, Jabatan Perancangan Bandar dan Desa Selangor, Kerajaan Negeri Selangor.
- Pelaksanaan Agenda 21 Tempatan di Majlis Bandaraya Shah Alam, Jabatan Perancangan Bandar dan Desa Selangor, Kerajaan Negeri Selangor.
- Strategi Pembangunan Mampan dan Agenda 21 Selangor, Jabatan Perancangan Bandar dan Desa Selangor, Kerajaan Negeri Selangor.
- Agenda 21 Selangor (Pelan Tindakan Pelaksanaan), Jabatan Perancangan Bandar dan Desa (JPBD) Selangor, Kerajaan Negeri Selangor.
- Prospect for Multifunctionality of Irrigated Cultivation in Malaysia, ERGS /1/2011/SS/UKM/03/2.



- Kajian keberkesanan pelaksanaan Agenda 21 Tempatan di negeri Selangor dalam mencapai sasaran pembangunan lestari (SDGs), Jabatan Perancangan Bandar dan Desa Selangor, 2017.
- Groundwater sustainability assessment for the Proposed Integrated Sustainable Living (ISL) Development of Iskandar Malaysia, Johor Darul Takzim, Johor Corporation, 2018-20.
- Impacts of climate change to groundwater conditions in coastal aquifer of Kuala Selangor, a student research conducted for fulfilling of the requirement for the Degree of MSc., 2015-2016.
- Establishment of Sustainability Science Demonstration Pilot Project on Restoring and Managing Langkat River, Malaysia for Future, UNESCO.
- Hydrogeology and groundwater sustainability at the proposed area for steel mills industry plant at Samalaju Industrial Estate, Bintulu, Sarawak, Chemsain Konsultant Sdn Bhd
- Sustainability of groundwater resources at the proposed sand mining operation areas in the Langkat River Basin (Megasteel Industrial area, Banting, Bukit Changgang and Tanjung Duabelas), Kumpulan Semesta, State of Selangor, 2013-2015.
- Sustainability of groundwater resources in Sandakan: Potential impacts of the proposed land use development in the environmentally sensitive area of Ulu Sibuga, Jabatan Bekalan Air Sandakan, 2014.
- Kajian Status Pembangunan Pulau-Pulau dan Kesannya kepada Alam Sekitar (XX-02-2009), Kementerian Sumber Asli dan Alam Sekitar.
- Groundwater Ecosystem: The Impact of Groundwater Abstraction to Land Stability in Langkat Basin (04-01-02-SF0377), Kementerian Sains, Teknologi dan Inovasi (MOSTI).
- Water Quality of Langkat River Basin, Japan Society for the Promotion of Science (JSPS) – Asian CORE Program (ACP), Group 2, 2012-16.
- Stability Analyses (Geomechanics, Geophysics and Hydrogeology) and Remedial Measures of the Access Tunnel for the TNB Hydropower Tunnel, Sg. Piah, Perak, TNB Research, 2012 –13. Sedimentation Monitoring Program for the Putrajaya Lakes and Wetlands: Sedimentation Monitoring and Assessment, Perbadanan Putrajaya, 2012-15.
- Hydrogeology of the Langkat Basin: Surface Water and Groundwater Interactions (08-02-02-0015EA247), MOSTI.
- Kajian Kesihatan Ekosistem Luas Lembangan Langkat (MATREM).



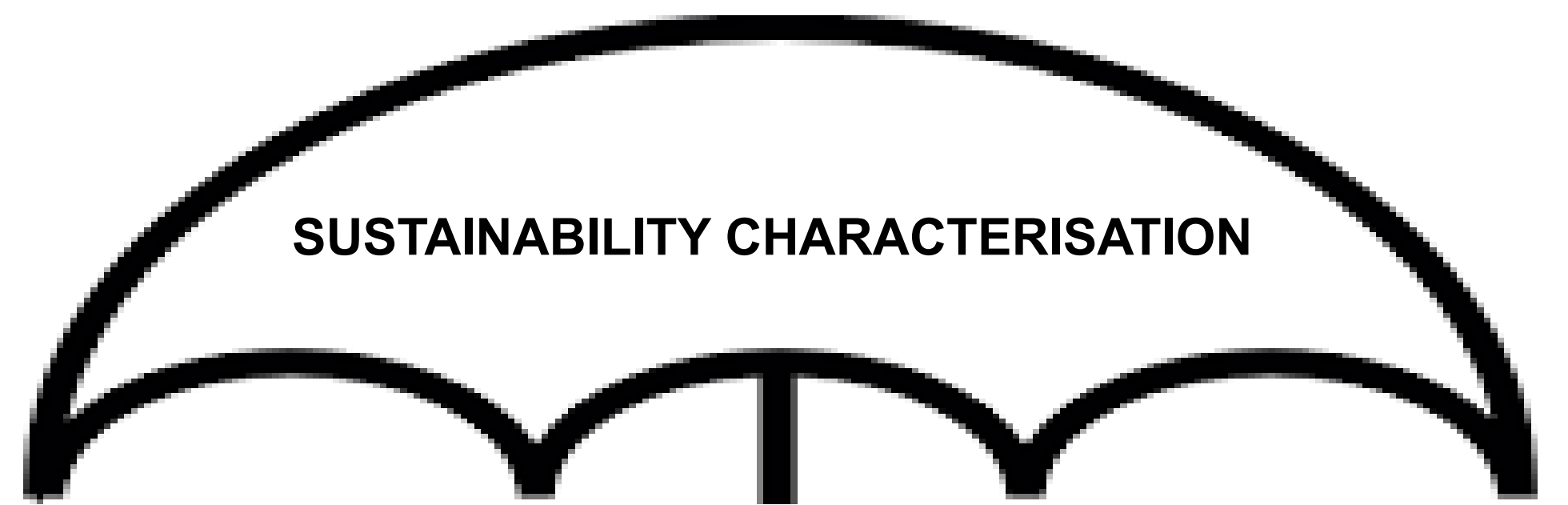
- Penyediaan Opsyen Strategi Pembangunan Lestari Wilayah (PPLW), HICOE XX-02-2012.
- Kajian Pelan Pengurusan Langkawi Geopark, XX-01-2011, Lembaga Pembangunan Langkawi LADA, 2011-12.
- Geoindikator Pengurusan Bandar Mampan Pembangunan Penunjuk Pembangunan Mampan di Malaysia: Sokongan Strategik dan Teknikal .
- Management Plan for Langkawi Geopark PPLG 2012-2010, Langkawi Development Authority (LADA), 2011.
- Indicators for Sustainable Development, EPU, Kementerian Kewangan Malaysia.
- Pembentukan Halatuju Pembangunan Lestari Sumber Hutan dan Air negeri Pahang, (HICOE XX-03-2012).
- Pemantauan dan Pelaporan Pelaksanaan Agenda 21 Tempatan di Selangor, JPBD Selangor.
- Penyediaan Garis Panduan Perancangan dan Pengurusan Kawasan Sensitif Alam Sekitar (KSAS) dalam Perancangan Guna Tanah di Selangor, JPBD Selangor.
- Panduan Perancangan dan Pelaksanaan Agenda 21 Negeri Selangor (Agensi Kerajaan Negeri), Jabatan Perancangan Bandar dan Desa (JPBD) Selangor.
- Penyediaan Dokumen Perancangan Pembangunan di Kawasan Sensitif Alam Sekitar Perbukitan dan Tanah Tinggi Selangor, Jabatan Perancang Bandar dan Desa (JPBD), Selangor.



- Geological and hydrogeological study for the proposed clay mining operation at Bistari Jaya, Selangor, EQM Ventures Sdn Bhd.
- Geological and hydrogeological study for the proposed sand mining operation at Bukit Jenuk, Dengkil, Selangor, SEMESTA Sdn Bhd, State of Selangor.
- Geological and hydrogeological study for the proposed tin and sand mining operation at HORAS 3000 Project, Bistari Jaya, Selangor, KL Larut Sdn Bhd, UKM Pakarunding.
- Geological and hydrogeological study for EIA of the Proposed Sand Mining Operation of Mara Majumas Mines at Bukit Changgang, Sepang, Selangor, State of Selangor.
- Hydrogeological Study and Groundwater Flow Modelling for EIA of the Proposed Sand Mining Operation at Lot PT 5626, Mukim of Bistari Jaya, Kuala Selangor, EQM Sdn Bhd.
- Hydrogeological Study and Groundwater Flow Modelling for EIA of the Proposed Sand Mining Operation at Mara Majumas Mines (Phase II), Bukit Changgang, Mukim Sepang, Selangor, State of Selangor.
- Hydrogeological Assessment for DEIA of the Proposed Landfill Site at Lahat, Perak, Perbadanan Sisa Pepejal Malaysia, ASMA Sdn Bhd.
- Geological and Hydrogeological Studies for the Proposed Sand Mining Operation at Kundang, Selangor, EQM Sdn Bhd.
- Geological and Hydrogeological Studies for the Proposed Landfill Site of KEJORA area, Kota Tinggi, Johor, Univ. Malaysia Terengganu, Minconsult Sdn Bhd, 2016 – 2017.
- Groundwater Flow Modelling for the Proposed Sand Mining Operation at Bistari Jaya area, Kumpulan SEMESTA Sdn Bhd (Kerajaan Selangor), melalui Anuar Mining, Quarrying and Environmental Management Sdn Bhd, 2014.
- Hydrogeological Study and Groundwater Modelling for the Proposed KPTC Malaysia Integrated Refinery and Petrochemical Development in Pengerang, Johor, 2013.
- Geology, hydrogeology and groundwater model for DEIA of the Proposed KPTC Malaysia Integrated Refinery and Petrochemical Development in Pengerang, Johore, 2013.
- Kajian EIA bagi permohonan perlombongan pasir di kawasan Rancangan Tanah Belia (RTB) Bukit Changgang, Mukim Tanjung Dua Belas, Kuala Langkat, Kumpulan Semesta Bhd, 2013.
- Hydrogeological Study and Groundwater Modelling for DEIA of the Proposed Sanitary and Secured Landfills for the Implementation of an Integrated Waste Management System (IWMS) in Bintulu Samalaju Industrial Park, Bintulu (SCORE).
- Geology, hydrogeology and groundwater model for DEIA of the Proposed KPTC Malaysia Integrated Refinery and Petrochemical Development in Pengerang, Johor.
- Penilaian kesan alam sekitar (EIA) bagi cadangan operasi perlombongan pasir di kawasan Rancangan Tanah Belia (RTB) Bukit Changgang, Mukim Tanjung Dua Belas, Kuala Langkat: Hydrogeologi dan model air bawah tanah.
- Hydrogeology and groundwater modelling for the Proposed Sand Mining Operation at Mara Maju Mine, Bukit Changgang, Mukim Sepang, Selangor, Swasta, EQM Sdn Bhd, 2012, Lead Consultant.
- Geological and hydrogeological studies for DEIA of the Proposed Bukit Payung Landfill, Yong Peng, Batu Pahat, Johor, Uni-Technologies Sdn Bhd. UTM, 2011.
- Geological and hydrogeological study for the proposed development of Liwagu Dam, Sabah.



- Integrated environmentally sensitive areas (ESA's) of the Langkat River Basin, Sub-study for Establishment of Sustainability Science Demonstration Pilot Project on Restoring and Managing Langkat River, Malaysia, UNESCO, 2015-2016.
- Environmentally sensitive areas (ESA's) in catchment of Tasik Chini, sub-study for Strategic Implementation Plan for Tasik Chini Rizab Biosfera and Tasik Chini State Park, East Coast Economic Region Development Council (ECERDC), 2010-2012.
- Penyediaan Dokumen Perancangan Pembangunan di Kawasan Sensitif Alam Sekitar Perbukitan dan Tanah Tinggi Selangor, Jabatan Perancang Bandar dan Desa (JPBD), Selangor.
- Environmentally Sensitive Area of Ulu Sibuga: Groundwater sustainability Hydrogeological Assessment of Sandakan Area: Potential Impacts of the Proposed Land Use Development in Environmentally Sensitive Area of Ulu Sibuga.
- Kawasan Sensitif Alam Sekitar negeri Kedah dan Pahang (sub-kajian kepada Kajian Penyediaan Opsyen Strategi Pembangunan Lestari Wilayah (PPLW), HICOE XX-02-2012.
- Kajian Penyelidikan Pelan Tindakan Perancangan dan Pengurusan Kawasan Sensitif Alam Sekitar (KSAS) dalam Perancangan Guna Tanah, (XX-03-2008), JPBD Semenanjung Malaysia.
- Pelan Tindakan Perancangan dan Pengurusan Kawasan Sensitif Alam Sekitar, JPBD Semenanjung Malaysia.
- Kawasan Sensitif Alam Sekitar Bersepadu: Kajian Kes Kuala Langkat, JPBD Semenanjung Malaysia.
- Environmentally sensitive areas concerning water bodies and aquifer in the Langkat River Basin, a research proposed for fulfilling of the requirement for the Degree of PhD.



- Potential Groundwater Resource for the Proposed Industrial Development Area in Sedenak, Johor, Darul Takzim, Pusat Geokejutereraan Tropika (GEOTROPIK) , UTM Johor Bahru. 2018-19.
- Hydrogeological study for the proposed tin and sand mining operation at the Hybrid Off River Augmentation Storage (HORAS) 3000 project area, Bestari Jaya, Selangor, KL Larut Sdn Bhd, 2017.
- Hydrogeological study for the development of groundwater recharge pond at the proposed land use development in the environmentally sensitive area of Ulu Sibuga, Sandakan, Sabah, 2015-16.
- Hydrogeological study and groundwater modelling for the proposed Hybrid Off River Augmentation Storage (HORAS), Bistari Jaya, Selangor, Kumpulan Semesta, State of Selangor, 2014-15.
- Hydrogeological study for the Proposed High Speed Railway (HSR), Minconsult Sdn Bhd, MyHSR
- Hydrogeological study for the Proposed Nenggiri Hydroelectric Dam, Nenggiri, Kelantan, Tenaga Nasional Berhad, UKM Pakarunding.
- Geological and hydrogeological study for the proposed tin and sand mining operation at HORAS 3000 Project (2nd Section), Bistari Jaya, Selangor, State of Selangor.
- Geological and hydrogeological study for the Proposed Gas Power Plant at Pulau Indah, Klang, TADMAX, Gunung-Ganang Corporation.
- Hydrogeological study for the Proposed Oil Palm Plantation Development in Mukim Tembeling, Jerantut, Pahang, Tabung Haji Plantation Agro Management.
- Hydrogeological study for the Proposed Oil Palm Plantation Development in Mukim Bebar, Pekan, Pahang Yayasan Pahang Plantation Holdings, Wiranda (M) Sdn Bhd.
- Hydrogeological study and groundwater modelling for the proposed Hybrid Off River Augmentation Storage (HORAS) at Bistari Jaya, Selangor, Kumpulan Semesta, State of Selangor, 2014-2015.
- Geological and hydrogeological studies for the Radionuclide Impact Assessment (RIA) of the Proposed TOHO Titanium Plant Samalaju Industrial Estate, Bintulu, Sarawak, Asia Lab Sdn Bhd, 2012.
- Kajian Geologi dan Hidrogeologi Tapak Bangunan Agensi Angkasa Negara di Sungai Lang, Banting, Selangor, Agensi Angkasa Negara dan Jabatan Mineral dan Geosains Malaysia.
- Hydrogeology and soil study for the proposed Rapid Transit System of Johor Bahru – Woodlands, AECOM (M) Sdn Bhd.
- Hydrogeology and groundwater modelling for the proposed Integrated Waste Management System (IWMS) for Samalaju Industrial Park Bintulu, Sarawak, Chemsain Konsultant Sdn Bhd
- Geology of the proposed area for transmission line of Pulau Indah – Olak Lempit, Banting, Selangor, TADMAX, Gunung-Ganang Corporation.
- Geological study for the Proposed Bintang-Blue Valley (Cameron Highlands) TNB Transmission Line, TNRD TNB.