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TYPICAL ENVIRONMENTAL RELATED PROJECTS UNDERTAKEN BY SMHB AND ASSOCIATED FIRMS

* updated March 2023

Scheme	Description	Duration/ Completion Year
1. Widening of Kuala Lumpur – Karak Highway from Gombak Toll Plaza to Bentong Toll Plaza: Environmental & Social Impact Screening for Value Management Requirement	Environmental & Social Impact Screening	2022
2. Subang Airport Master Plan – IEE & SIA	Initial Environmental Evaluation & Social Impact Assessment	2021
3. Petaling Jaya Dispersal Link	Environmental and Social Impact Screening	2019
4. Proposed Expansion of Container Terminal CT1-CT19 and its Associated Works at Westport Pulau Indah, Selangor	Environmental impact assessment and social Impact Assessment consultancy services for Conceptual Master Planning.	2018-2019
5. Kajian Kemungkinan Pembinaan Baraj Sungai Bernam Untuk Bekalan Air Bagan Datuk, Perak	Environmental study.	2018
6. Upper Terauini Hydroelectric Plant Project, Municipality of Terauini, Province of Isabella, Philippines.	Review of environmental impact assessment report prepared by local team.	2017
7. Upgrading of Batu Ferringhi Treatment Plant	Preliminary environmental impact assessment	2014
8. Kajian Penyediaan Pelan Pengurusan Lembangan Sungai Bersepadu (IRBM) Lembangan Sungai Selangor (2015-2020)	Environmental study.	2014
9. Langat Sewerage Project (LSP), Selangor	Preliminary environmental impact assessment	2013
10. Proposed Seluyut Dam and Water Supply to Pengerang Integrated Petrochemical Complex	Environmental impact assessment and environmental management plan	2013 – 2014
11. Johor Barrage Project	Environmental study.	2012
12. Raising of Bekok Dam	Environmental study.	2012
13. Alternative Water Supply to KLIA – Sg. Labu Off-river Storage and Associated Works	Environmental management plan and environmental monitoring and audit.	2011
14. Cherating Mainland Coastal Tourism Development, Kuantan, Pahang	Environmental study.	2010



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15. Johor Water Resources Study, Johor	Environmental study.	2010
16. Drainage and Storm water Management Blueprint for Iskandar Malaysia, Johor	Environmental study.	2010
17. Study and Design for the Rehabilitation of Sg. Linggi, Negeri Sembilan	Environmental study.	2010
18. Central Spine Package 5 – Raub to Bentong, Pahang	Preliminary environmental impact assessment, environmental management plan and preliminary erosion and sediment control plan.	2009
19. Feasibility Study for Mersing to Kg. Sedili Besar New Coastal Road, Johor	Environmental management plan.	2009
20. Teriang Water Supply Scheme, Negeri Sembilan	Environmental management plan.	2008 – 2011
21. Feasibility Study and Preliminary EIA for Kota Belud Dam, Sabah	Environmental impact assessment (Review Consultant).	2008 – 2009
22. Water Supply Master Plan Study, Pulau Pinang	Environmental study.	2008 – 2009
23. Langat 2 Water Supply Scheme, Phase 1, Selangor	Preliminary environmental impact assessment, environmental management plan and environmental monitoring and audit.	2008 , ongoing construction
24. Pahang-Selangor Raw Water Transfer Project	Preparation of an Environmental management plan for the access roads, and construction of a 44.6 km long water transfer tunnel. Advisory input for monitoring works during construction stage.	2007 – 2011
25. Water Resources Study for Megasteel, Banting, Selangor	SMHB was engaged by Megasteel to conduct water resources study which includes water quality assessment of Sg. Langat and ex-mining ponds.	2007 – 2008
26. Detailed Environmental Impact Assessment (DEIA) for a Proposed Sanitary Landfill in Kuala Langat, Selangor	Located at Mukim Tg. Dua Belas in the District of Kuala Langat, Selangor Darul Ehsan. The landfill is projected to receive about 1,000 ton/day of municipal wastes.	2007
27. Beaufort Water Supply Scheme Phase 2 – Submarine Pipeline, Sabah	Environmental Impact Assessment for the laying of 23.5 km of 750 mm diameter submarine pipeline from mainland Sabah to the Labuan Island.	2007
28. Sungai Teriang Dam and Raw Water Transfer Facilities from Sungai Teriang basin to Sungai Linggi Basin in Negeri Sembilan	Preliminary and detailed environmental impact assessment for access roads, a dam with storage capacity of 62 x 10 m ⁶ , 12.5 km tunnel and 40 km of large diameter pipeline.	2006 – 2007
29. Water Resources Development in the State of Selangor and WP Kuala Lumpur and Putrajaya – Sg.	The project involves diversion of flow from Sg. Langat to wetlands and ex-mining ponds west of Dengkil, owned by KPSB, for water supply. The	2006 – 2007



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Scheme	Description	Duration/ Completion Year
Langat-Tg. Dua Belas Ponds Scheme	scope of works includes water supply quality analysis of Sg. Langat and associated ponds.	
30. Water Resources Study of Sg. Batu Pahat Basin, Johor	Study the problem relating to water quality (pollution and low pH) in the Sg. Batu Pahat system and recommend improvement measures.	2005 – 2006
31. Environmental Impact Assessment and Environmental Management Plan for a Proposed Township Development in Kuantan	Environmental impact assessment for a proposed township in Kuantan, Pahang which will be developed within a land area of 1,500 acres, wholly within a palm oil plantation and surrounded by other palm oil estates as well as the Bukit Galing Forest Reserve.	2005
32. Sg. Bakong Water Quality Study, Miri, Sarawak	Water quality assessment of Sg. Bakong due to increasing oil palm plantation activities at the upper catchment of the river.	2004 – 2006
33. Sludge Treatment Facilities for Sungai Langat and Cheras Treatment Plant	Environmental consideration of the options for sludge treatment.	2003
34. Melaka River Rehabilitation and Beautification Project	Environmental impact assessment for rehabilitation works of Melaka River.	2002
35. Sungai Selangor Water Supply Scheme Phase 3	Feasibility study of sludge disposal on land and environmental impact assessment study for sludge landfill.	2001
36. Water Treatment Plant operated by SAJ Holdings Sdn Bhd	Water quality assessment at Sungai Bekok Intake and Storage Lagoon.	2000
37. Scheduled Waste Management Centre, Port Dickson, Negeri Sembilan	Environmental impact assessment of a proposed landfill within the WMC site.	1999
38. Sungai Selangor Water Supply Scheme Phase 3	Environmental impact assessment of the Sungai Selangor Water Supply Scheme Phase 3 comprising Sungai Selangor dam, treatment works, road realignment and associated works.	1999
39. Dungun Water Supply Project, Terengganu	Environmental assessment of water supply scheme for the Kerteh Integrated Petrochemical Complex. The project comprises a banded storage, water treatment works and pipeline.	1998
40. Shah Alam to Bandar Baru Batu Arang Trunk Road (Phase 1)	Environmental assessment of a proposed road which partly passes through the lowland forest of Bukit Cherakah, involving some construction on, and cutting through high angle slopes due to local topography.	1997
41. Greater Kuantan Water Supply Project Phase 2	Environmental impact assessment of Chereh dam, treatment works, pipelines and associated works.	1997
42. National Water Resources Study (2000-2050)	Environmental assessment of major projects identified in the master plan.	1997



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Scheme	Description	Duration/ Completion Year
43. Jus Dam, Melaka	Environmental impact assessment of Jus dam and its associated works.	1997
44. Kelantan Flood Mitigation Project	Detailed environmental impact assessment of flood mitigation options involving the construction of two dams upstream of Sungai Kelantan.	1996
45. Interstate Raw Water Transfer Schemes	Environmental Assessment of proposed interstate transfer schemes including Pahang to Selangor raw water transfer scheme.	1996
46. Environmental Monitoring for Malaysian Integrated Scheduled Waste Management Centre, Negeri Sembilan	Environmental monitoring involving physical and biological components of the environment to ensure the effectiveness of the mitigating measures implemented by the operator.	1996 – 2002
47. Sunrise Genting Hill Resort	Environmental impact assessment of the development of a 10 storey, 100 rooms hotel and a 2 x 11 storey apartment buildings.	1995
48. Singapore – Suzhou Industrial Township Water Supply and Wastewater Project	Preliminary environmental study for the development of a water supply scheme and wastewater treatment facilities for a township located at Jiangsu Province, China.	1995
49. Ulu Melaka Dam at Pulau Langkawi	Environmental impact assessment of the development of an earthfill dam as part of the Pulau Langkawi water supply scheme.	1994
50. Johor Water Resources Planning and Development	Preliminary environmental appraisal of the water resources development options to assist in the selection process of potential water supply schemes which include multi-purpose reservoirs and intakes.	1994
51. Teluk Bahang Dam and Associated Works	Preliminary environmental impact assessment for the development of an earthfill dam and its appurtenances.	1994
52. Murum Hydroelectric Project	Environmental impact assessment study for the implementation of the proposed Murum Hydroelectric Power Project in Sarawak.	1994
53. Kranji Sewage Treatment Works – Odour Study	Comprehensive odour study for the upgrading of the Kranji Sewage Treatment Works, Singapore.	1993
54. Sarawak Clinker Plant and Quarry	Environmental impact assessment study for the proposed development of a clinker plant at 2 site options and a quarry occupying 520 ha of land in the Gunung Bah hills in Sarawak.	1993
55. Environmental Management Study of Sungai Sintok and Sungai Badak Basins	Commissioning of an environmental audit of the past, present and future developments in the basins of Sungai Sintok and Sungai Badak, Kedah.	1993
56. Pulai and Teluk Chempedak Sanitary Landfill Sites	Preliminary environmental impact assessment of 2 proposed sanitary landfill sites to be sited on	1993



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Scheme	Description	Duration/ Completion Year
	Pangkor Island in Perak and Pulau in the district of Baling, Kedah.	
57. Carlsberg Brewery Effluent Impact Study	An impact study of the effluent discharge on the downstream receiving waters of Carlsberg Brewery Malaysia Berhad.	1993
58. Development of Criteria and Standards for Water Quality – Phase III	A study for the Department of Environment on the improvement, modification and strengthening of the existing industrial effluent standards which included the assessment of compliance and non-compliance of selected industries.	1993
59. Pahang Water Resources Planning and Development	Preliminary environmental appraisal of the water resources development options for the State of Pahang to assist in the selection of potential water supply schemes.	1993
60. Petrochemical Storage Terminal Hazard and Risk Study of Acrylonitrile Storage	A quantitative risk analysis of a new storage and associated facilities for Acrylonitrile, a toxic and hazardous chemical used in the plastics industry.	1993
61. Pulau Langkawi Water Resources Study	Preliminary environmental appraisal of the water resources development options for Pulau Langkawi.	1992
62. Jerneh Field Pipeline Hydrotest Discharge Environmental Monitoring	An environmental monitoring programme to determine impacts of the submarine gas and condensate pipeline hydrotest discharge on the marine environment.	1992
63. Malaysian Integrated Scheduled Wastes Collection, Treatment and Disposal Project	Environmental impact assessment of the development of a centralized scheduled wastes treatment facility comprising a treatment plant, high temperature incinerator, secure landfill repository, and waste transfer stations.	1991
64. Semarang-Surakarta Urban Development Project	Environmental impact assessment studies of projects involving infrastructure improvements in various sectors for Semarang and Surakarta in Indonesia.	1991
65. Johor River Waterworks Alum Sludge Treatment and Disposal Facilities	A comprehensive study and evaluation of the waterworks alum sludge pretreatment, dewatering and disposal facilities.	1991
66. Kota Kinabalu Water Supply Extension Scheme – Stage II	Environmental impact assessment of the construction of a dam across Sungai Babagon, a new treatment plant, a 9 km long trunk pipeline and a booster pumping station.	1991
67. Seligi Field Marine Environmental Monitoring Programme	A 4-year marine water and sediment monitoring programme to determine the environmental impacts of the drilling activities and operations of the Seligi Oil Field on the marine environment.	1991
68. Linggiu Reservoir Project	A study to determine the impacts of the construction and operations of the water supply dam and reservoir on the environment.	1990



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69. Sungai Selangor Water Supply Scheme – Sungai Buloh Dam	Assessment of the environmental impacts of the development of an impounding reservoir, a water intake structure and a water treatment works.	1990
70. Pasir Gudang Environmental Impact Assessment	Preliminary environmental impact assessment of the development of an extension to the industrial complex in Pasir Gudang, Johor.	1990
71. Krian River Basin Flood Mitigation and Agricultural Development Projects	Environmental impact assessment for projects consisting of swamp reclamation, agricultural developments, dredging works, improvement of canal, construction of dam and pump house.	1990
72. Tissue Paper Factory De-inking Plant Wastewater Treatment	Feasibility study, treatability tests and detailed design for the upgrading of wastewater treatment facilities required to meet the Department of Environment, Standard B requirements.	1990
73. Development of Centralized Pig Farms in Penang and Melaka	A comprehensive study for the wastewater management of the centralized pig farming areas (PFAs) involving design and costing for the PFAs and associated infrastructures.	1990
74. Development of Criteria and Standards for Water Quality – Phase II	A study for the Department of Environment for the formulation of a quality assurance programme for water quality monitoring and the development of a river classification system for Malaysia.	1990
75. Pharmaceutical Factory Wastewater Treatment	A study to investigate the existing wastewater generation sources in the factory and means of upgrading the collection, treatment and disposal of wastewater.	1990
76. Development of Criteria and Standards for Air Quality	A study for the Department of Environment on the development of criteria and standards for air quality to promulgate a set of ambient air quality criteria and standards suitable for application in Malaysia.	1989
77. Gypsum Waste Treatment and Environmental Monitoring	Environmental advice and assistance on the safe disposal of solid and liquid waste at a new landfill site in Kemaman, Terengganu.	1988
78. Sungai Brunei Estuary Water Quality and Pollution Study	A comprehensive study on the existing water quality and relative ecosystems of the Sungai Brunei and examination of the possible effects of the future pollution control strategies.	1987
79. Rubber Manufacturing Wastewater Treatment	A study on the wastewater treatment system of processed rubber effluent and recommendations of alternative schemes for the treatment of the effluent.	1985
80. Electronics Industry Wastewater Management	A study for the industrial waste management programme for the Mostek plants in Penang and Kota Bharu and the identification of the available treatment options.	1984

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Scheme	Description	Duration/ Completion Year
81. Johor River Water Resources Study	Environmental impact statement of the development of impounding reservoirs and barrages in Sungai Johor.	1984
82. Jeniang Transfer Scheme	A study of the probable environmental and socio impacts of the construction of a diversion barrage, Naok reservoir and transfer system on the region.	1983
83. Healthcare and Beauty Products Wastewater Treatment	A study to investigate the quality, treatability and biodegradability of the factory effluent.	1982
84. Scott Paper Effluent Impact Study	A study of the possible impacts due to effluent discharge on the downstream water resources of Sungai Sembrong.	1982
85. Latex Wastewater Treatment	A study to determine the feasibility of treating wastewater from the Revertex concentrated latex factory in order to comply with the Department of Environment effluent standard.	1982
86. Muar River Basin Study	Preliminary assessment of the environmental impacts of the various water resources development projects in the Muar River Basin.	1981
87. Latex Waste Treatment	A study on the wastewater treatment works which includes an oxidation ditch and settling tank system.	1978