

OUR CONSERVATION STORY

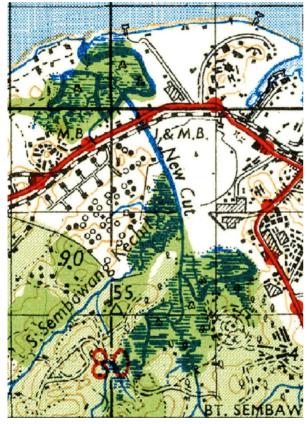


by Nature Society Singapore

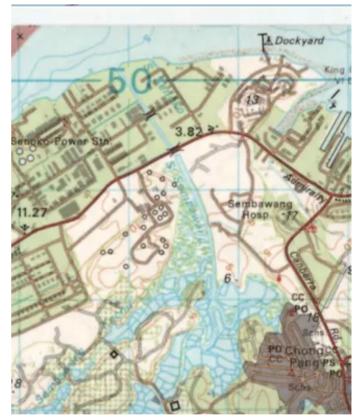


Pre-development

In Franklin and Jackson's Plan of Singapore (1830), Senoko was referred to as the "River Simko" or Sungei Senoko in Malay. What is known as Sungei Sembawang today is a result of the merging of Sungei Sembawang and Sungei Senoko. In the 1920s, a long canal, called the "New Cut" brought the two rivers together. Later in 1970s, the swamps around Sungei Senoko was reclaimed to create an industrial area. Sungei Senoko was also canalized and straightened and was then known as Sungei Sembawang, although mouth of the river is that of Sungei Senoko. In 1985-1986, canalisation of Sungei Sembawang further destroyed the remaining mangroves.¹



Sungei Senoko in the 1945 map of Singapore (Source: https://libmaps.nus.edu.sg/)



Sungei Senoko in the 1987 map of Singapore (Source: https://libmaps.nus.edu.sg/)

On 10 January 1990, it was reported that Jurong Town Corporation (JTC) would be building factories at Senoko South.



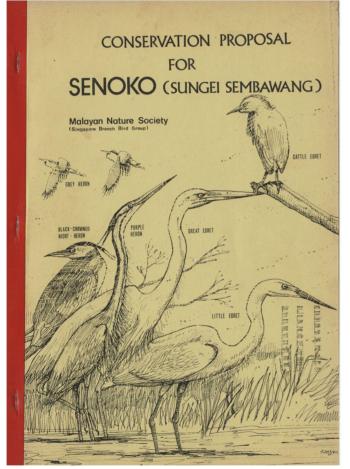
The Business Times, 20 January 1990 (Source: NewspaperSG)

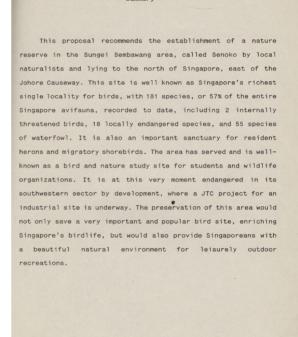


The Conservation Proposal

Conservation Proposal for Senoko (Sungei Sembawang) was written and published in 1990. It was published by Mr Lim Kim Seng (Bird Group), illustrated by Mr Sutari bin Supari, in consultation with Prof P.N Avadhani (Singapore Branch Chairman), Mr Clive Briffett (Bird Group Chairman), Mr Richard Hale, Dr Ho Hua Chew, Mr Lim Kim Keang (Bird Group Secretary), Dr Rexon Ngim, Mr R. Subharaj, and Mr Sutari bin Supari.

The habitats in Senoko included mangrove, brackish and freshwater ponds, grassland, reedbeds, scrub, secondary forest, orchard, riverine vegetation and rubber plantation. Various habitats provided different types of food source to support different life forms.





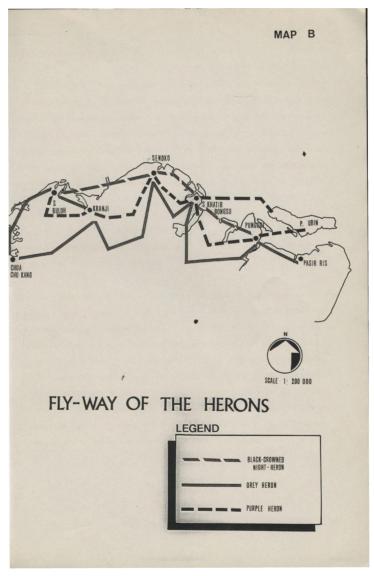
Conservation Proposal for Senoko (Sungei Sembawang), published in 1990 (Source: Nature Society Singapore)



Key Conservation Factors

Senoko is well known as Singapore's richest single locality for birds. 181 species, which was 57% of the entire Singapore's avifauna then, were recorded. Of these, 2 nationally threatened birds, 18 locally endangered species and 55 species of waterfowls were amongst the list. It is important for resident herons and migratory shorebirds.

Lying in between Sungei Buloh/Kranji and Pasir Ris, Grey Herons, Purple Herons, Black-crowned Night-herons were sighted to be using Senoko as a stop-over between these sites. Senoko also served to reduce the load of each site for feeding and roosting.

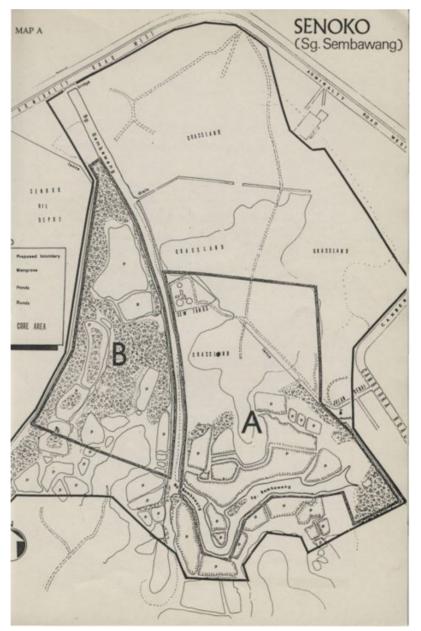


Flyway of the Herons (Source: Nature Society Singapore)



Proposed Nature Reserve

Area A has the largest pond and concentration of birds. It has been proposed to have hides to allow visitors to view the birds. Area B consists of mangrove and secondary forest. While part of the mangrove was already destroyed by reclamation, the remaining mangrove was still substantial and viable for birds as a roosting and breeding ground. Other parts of the proposal includes a buffer zone and amenities such as visitor centre and car park.



Proposed nature reserve (Source: Nature Society Singapore)



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Stakeholder Engagements

On 3 October 1990, the Conservation Proposal was sent to then-Minister BG Lee Hsien Loong of Ministry of Trade and Industry (MTI) and then-Minister Mr S. Dhanabalan of Ministry of National Development (MND), to appeal to stop the reclamation along the mangrove and forest wedge.

MALAYAN NATURE SOCIETY

(Singapore Branch) c/o Department of Botany, National University of Singapore, Lower Kent Ridge Road, Singapore 0511.

BG (RES) Lee Hsien Loong Minister of Trade and Industry Ministry of Trade and Industry

3 October 1990

Dear Minister,

Ref: Conservation Proposal for Senoko

Enclosed is a copy of our Conservation Proposal for Senoko submitted for your consideration. The site is highly important for the densitfy and variety as well the many rarities of birdlife that it harbours. It is right now endangered by a JTC project in its south-western sector. We appeal to you to halt the reclamation going in the northern direction, along the mangrove and forest wedge on the western side of Sungei Sembawang, to allow a reprieve for this proposal to be properly assessed. We are keen to provide you or your representative with a guided tour of the area if required.

We look forward to your decision. Thank you.

Yours sincerely,

Ho Hua Chew [Te1:7726098(o)/4571196(h)] Co-ordinator, Bird Conservation Committee Malayan Nature Society (Singapore Branch) cc:

> First Deputy Prime Minister Minister of National Development Ambassador-at-Large JTC, URA, HDB

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(Singapore Branch) c/o Department of Botany, National University of Singapore, Lower Kent Ridge Road, Singapore 0511,

Mr. S. Dhanabalan Minister of National Development Ministry of National Development

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Dr. Ho Hua Chew [Tel:7726098(0)/4571196(h)] Co-ordinator, Bird Conservation Committee Malayan Nature Society (Singapore Branch) cc:

> First Deputy Prime Minister Minister of Trade and Industry Ambassador-at-Large JTC, URA, HDB, PRD

Cover letters from MNSSB, enclosing the conservation proposal to MTI and MND (Source: Nature Society Singapore)



On 12 December 1990, MTI responded and indicated that Area A was still largely undeveloped and that "the Government is supportive of your proposal to preserve this as a bird sanctuary". It was also believed that birds in Area B had migrated to Area A.

MTI 35/1-001 Pt 3



FAX: 3209260

Dr Ho Hua Chew Coordinator, Bird Conservation Committee Malayan Nature Society (Singapore Branch)

Dear Dr Ho

CONSERVATION OF SENOKO AREA AS BIRD SANCTUARY

Thank you for your letter to the Minister for Trade and Industry dated 1. 3 Oct 90 proposing that the Senoko area around Sungei Sembawang be preserved as a bird sanctuary. We have referred your letter to the Ministries of National Development and the Environment.

2. The area delineated in your proposal was divided into Areas A and B on the eastern and western banks of Sungei Sembawang respectively. Area A, the larger site, remains undeveloped. The Government is supportive of your proposal to preserve this as a bird sanctuary. We will give you a fuller response after our study is completed.

Area B, the smaller site on the western bank of Sungei Sembawang, has already been substantially cleared by JTC for its industrial development. Jurong Bird Park's officers have investigated and found that there were no signs of nesting birds in the area. They think that any birds feeding within this area are likely to have migrated to the neighbouring undeveloped Area A. In light of this, Government has decided to proceed with the development of this area for industry. However, Jurong Bird Park will be advising Jurong Town Corporation on how to minimise interference to birds in the affected and neighbouring areas.

4. I thank you for bringing this matter to our attention.

Yours faithfully,

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LAT SECK KHUI DEPUTY SECRETARY for PERMANENT SECRETARY MINISTRY OF TRADE AND INDUSTRY



Letter from MTI to MNSSB (Source: Nature Society Singapore)

MINISTRY OF TRADE & INDUSTRY 8 Shenton Way #48.01 Treasury Building Singapore 0106 REPUBLIC OF SINGAPORE Telephone: 2259911 Cable Add: TRADE INDUSTRY, SINGAPORE Telex: MTI RS24702

MINISTRY OF TRADE & INDUSTRY



On 6 March 1991, MNSSB thanked MTI for considering the proposal and provided an updated survey of Area B. MNSSB also proposed to convene a meeting to discuss further.

a star the set and a set of the MALAYAN NATURE SOCIETY (Singapore Branch) c/o Department of Botany, National University of Singapore, Lower Kent Ridge Road, Singapore 0511. B.G. Lee Hsien Loong Minister of Trade and Industry 8 Shenton Way #48-01 Treasury Building 6 March 1991 Singapore Dear Minister, Conservation of Area B of Senoko as Bird Sanctuary Thank you for your letter of Dec 21, 1990, informing our Society that JTC will be proceeding with its development in Core Area B (as demarcated in the sketch-map in our Proposal submitted earlier). We would like, however, to make an appeal to you to preserve whatever is left of Area B for the following considerations: 1. Despite the fact that 30% to 40% of Area B is already reclaimed, a large part of the original mangroves as well as the palm forest, which is rare in Singapore, is still untouched. 2. The MNS Bird Group has made an updated survey of Area B and had recorded a total of 53 species of birds using the area, a significant number of which are birds that are dependent on the mangrove habitat for survival. This does not exhaust all that can be found within this locality. 3. A significant number of species that are found feeding in Area A resort to the mangroves in Area B for roosting, such as the Black-crowned Night Heron, a group of which has taken refuge here after the disturbance (fogging) of their heronry at Yishun/Khatib last year. 4. There are 7 endangered species recorded within Area B and these are: the Magpie Robin, the Straw-headed Bulbul, the Plain Sunbird, the Ruddy Kingfisher, the Mangrove Whistler, the Copper-throated Sunbird and the White-chested Babbler. 9 5. In the mangrove that remains, a pair of the rare White-chested Babbler was recorded in our updated survey. Another pair was recorded in the palm forest prior to the survey. This makes Area B ornithologically important for at least two pairs of this rare species have its residence here. We would like to thank you for giving us your consideration and would appreciate it if we could meet with your Ministry to discuss this matter further. Thank you. CC: Prime Minister Minister of National Development Minister of Environment JTC, URA Yours faithfully, kon. Ho Hua Chew Chairman MNS Conservation Committee Letter from MNSSB to MTI (Source: Nature Society Singapore)



Stakeholder Engagements

<u>Jurong Town Corporation (JTC) engagement</u>: In a meeting on June 1991 with JTC, Nature Society (Singapore) (NSS) expressed concerns regarding JTC's plan for a pipeline running running through the area along Sungei Sembawang. It was stressed that the pipeline should run along the western edge of the mangrove (what we have labelled as Core Area B in the Conservation Proposal) to the west of the Sungei Sembawang and it was agreed.

<u>Urban Redevelopment Agency (URA) engagement:</u> In a meeting on 9 July 1991, regarding the tentative housing plan for the area, it was highlighted that the developments should avoid the core areas to the east (Area A) and west (Area B) of Sg Sembawang.

Restricted 17 July 1991 Malayan Nature Society (Singapore Branch) Conservation Committee: Progress Report 2 1. Bukit Timah Reserve The Telecom building on top is already rearing above the tree-top level. A letter drafted by Clive on this matter was sent to NPB at the early stage of its construction. Unfortunately, members came to know about this development only after the building was constructed. According to NPB, the site is outside the boundary of the Reserve. The visitor centre at the gate is almost completed. 2. Central Catchment Area It is established through a reliable source that the total amount of land area involved in the Golf Course Project at Lower Peirce is 123.8 hectares. Clive is finalising the draft of the letter to MND. SBC has expressed an interest in doing a feature on golf

3. Senoko

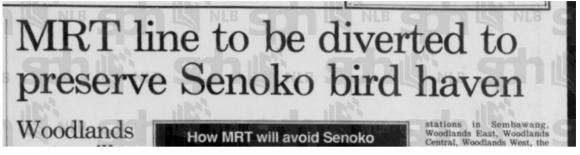
The Chairman of JTC was shown around Senoko on a Sunday in June 1991. Evelyn Lim-Eng, Clive Briffett and R. Subharaj were present. The Chairman was impressed according to some members. A meeting was held on 9 July 1991 with Mr. Wong Chiew Yii of URA concerning Senoko, during which it was learnt that the remaining part of area B together with a portion of land already reclaimed to the south plus the pond area in A inclusive of a narrow stretch along the eastern side of Sungei Sembawang will be preserved. Please see map attached. There is a plan for the pipeline to be constructed along the western boundary of area B. This is yet to be finalised by URA with the other authorities concerned. An HDB estate with 27,000 units is planned for the grassland and parkland falling outside the proposed area. Mr. Wong has requested a written statement of the Committee's position on the URA proposal unveiled. The HDB Plan may be initiated in 5 years time. MNS members present: Ho Hua Chew and Lim Kim Keang.

MNSSB Conservation Committee progress report on 17 July 1991 (Source: Nature Society Singapore)



Stakeholder Engagements

<u>SMRT Corporation engagement</u>: In June 1991, the SMRT also announced in The Straits Times that the new MRT line would be diverted to to avoid intrusion into the core nature areas proposed.



The Straits Times, 20 June 1991 (Source: NewspaperSG)

<u>URA's Masterplan: Living the Next Lap</u>: In September 1991, Senoko was also designated as a nature park/bird sanctuary



Request to Manage Senoko

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A request to manage Senoko was sent to Mr S. Dhanabalan, then-Minister of National Development, on 13 July 1992.

The Nature Society (Singapore)

Registered Address Clo Botany Dept, National University of Singapore Lower Kent Ridge Road, Singapore 0511

Mr. S. Dhanabalan Minister of National Development Singapore 13 July 1992

Dear Mr. Dhanabalan,

Ref: A Request for NSS to Manage Senoko

From the URA Master Plan (Living the Next Lap) exhibited in 1991, we understand that several of the nature sites designated in our Master Plan are earnarked for wildlife parks or sanctuaries, such as Senoko, Khatib Bongsu, Kranji Marshes, Mandai Mangroves, parts of Pulau Ubin, etc. We would like to request that our Society be given an opportunity to manage Senoko.

Our Society has grown and become more mature and established, with a membership of about 1400 to date. There are also now a bigger pool of active and dedicated members who would like to get involved in a more committed way to nature conservation. We are at this stage ready and prepared to take on a heavier burden of responsibility for nature conservation than we have hitherto ventured. We see our possible involvement in wildlife management as an important stage in our endeavour to conserve as well as to promote in a deeper and broader way an appreciative awareness for nature in Singapore.

So far we have submitted, apart from the Sungei Buloh proposal, to your Ministry detailed conservation proposal for the following important sites: Marina South, Senoko, Khatib Bongsu, Kranji Marshes, Kent Ridge and Pulau Ubin. We would like to show our commitment to these proposals by volunteering to manage Senoko for a start. We are offering our services because we believe that we are in a good position to venture into wildlife management, having obtained the necessary field knowledge and experience over many years.

If given the opportunity, we will carry out the following plans:

1. To cover the cost of management, we will start a Nature Conservancy Fund through a series of fund-raising campaigns and activities, such as bidr race, donation drive, etc. This will be an on-going affair. Sources at home and abroad will be tapped, at this stage, we have reliable feedback that many companies, local as well as multi-national, are keen to donate for the cause of nature conservation, especially if the project is concrete and viable. In Hong Kong, for example, a bird race could raise a million or more for the cause of conservation. We believe that this can also be achieved for Singapore. 2. We will mount a management system to be run by full-time wardens. The emphasis will be on local participation. These wardens are to be professionally trained. Foreign wildlife management professionals from relevant countries will be consulted.

 Facilities, such as visitor centre, hide, trail, etc., will be developed to make visits to the site more attractive.

4. Educational programmes and activities for school children as well as the larger public, such as talks, slide-shows and guided tours, will be initiated on a regular basis.

5. Research projects on the various aspects of the ecology and natural history of the area will be carried out. The emphasis will be on participation by students and staff of the junior colleges and tertiary institutions.

6. We will publish a series of guide books and pamphlets on Senoko as well as the other areas earmarked for wildlife parks or sanctuaries in the URA Master Plan.

The plans outlined here are intended to be carried out in stages, depending of course upon the level of success in our drive for funding.

We will be happy to provide a detailed management plan for Senoko, if what we have propose here is agreeable to you.

Thank you.

Yours sincerely,

how

Dr. Ho Hua Chew Chairman, Conservation Committee. Tel. 7726098 (office) Fax. 7779514

CC: CEO, URA Patron

Letter to request for NSS to manage Senoko was sent to Mr S. Dhanabalan, then-Minister of National Development (Source: Nature Society Singapore)



On 6 Oct 1992, then-Minister of National Development, Richard Hu, replied and offered 23 hectares to be managed by NSS.

Ministry of National Development S Maxwell Read 72/12200 Town: Block MND Complex Singapore DI05 RePUBLIC OF Singapore Telephone No. 2221211 Telex: NATDEV RS 34309 Facesmile: 3228254	2 CONFIDENTIAL
Your Ref: <u>CONFIDENTIAL</u> Our Ref: ND 311/19-8 Vol 3 DID: 3226202 FAX: 3226272 6 Oct 92	3 As you are aware, PRD is currently developing the Sungei Buloh Bird Sanctuary. The PRD's managing agent, the Jurong Bird Park, has started liaising with NSS and other institutions and individuals on a proposed volunteer guides service. We look forward to NSS' participation, such as encouraging its members to serve as volunteer guides to conduct tours for the bird sanctuary.
Dr Ho Hua Chew Chairman Conservation Committee The Nature Society (Singapore) c/o Botany Department National University of Singapore Lower Kent Ridge Road Singapore 0511 Dear Dr Ho	Yours sincerely HO CHEOK SUN DEPUTY SECRETARY/DIRECTOR (INFRASTRUCTURE) for PERMANENT SECRETARY (NATIONAL DEVELOPME: ")
A REQUEST FOR NSS TO MANAGE SENORO NATURE SITE Please refer to your letter of 13 Jul 92 to Mr S Dhanabalan, on NSS' proposal to develop and manage a nature site at Senoko as a bird sanctuary.	cc Dr Chua Sian Eng Commissioner, Iarks & Recreation CEO & CP, URA (Attn: Mr Wong Chiew Yii)
2 The Urban Redevelopment Authority has informed us that it is currently working out the landuse plans for the Senoko area. Your Society would be pleased to know that the plan includes keeping some 23 ha of the Senoko nature area as nature area within a town park. This site consists of large ponds and patches of mangrove swamps. However, the boundary of the proposed park has not been finalised. We have taken note of NSS' offer to manage the nature site as a bird sanctuary and have asked the Parks & Recreation pepartment (PRD) to keep in touch with you, at a later date, when the boundary for the nature site is finalised.	ésî:1528-yezoko
CONFIDENTIAL SECOND	CONFIDENTIAL.

Letter to request for NSS to manage Senoko was sent to Mr S. Dhanabalan, then-Minister of National Development (Source: Nature Society Singapore)

Subsequently, a separate discussion was held to re-look at the boundaries to cover the more important habitats to make sure the right boundaries are included. Dr Ho Hua Chew led a guided walk with Park Recreation Department (PRD) staff to identify the important boundaries in Senoko in January 1993. However, the discussion went cold for one year. During this year, there was also a change of minister for MND.



The Singapore Green Plan - Action Programmes 1993

However, in the release of this SGP in November 1993, it was noted that Senoko was left out as a nature site.



Nature sites marked in the Singapore Green Plan 1992 (Source: The Singapore Green Plan - Action Programmes)

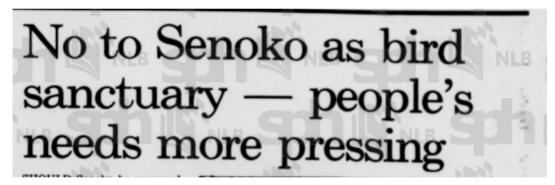


News Came

On 18 Mar 1994, during the Budget debate, then-Acting Minister of National Development, Lim Hng Hiang shared:

'If we were to keep 168 hectares of land for a bird habitat, it would mean taking away housing for 17,000 housing units. So if the Nature Society of Singapore can give me a petition to take out 17,000 applications of upgraders from my waiting list, then we will keep the Senoko land and keep it for the birds. But with the pressing needs of Singaporeans, I think Singaporean's needs come before birds.'²

On 19 Mar 1994, Straits Times reported that Senoko will be cleared for industrial development and public housing.



The Straits Times, 19 March 1994 (Source: NewspaperSG)



After the announcement on parliament, a series of letters were published in The Straits Times between NSS and the Ministry of National Development (MND). In this correspondence, Dr Ho urged that preserving some part of the Senoko marshes would avoid having to 'recreate' nature later and to keep at one pond as a transitional refuge until the nearby parks are made more suitable for birds. MND corresponded and emphasised that it was a deliberate decision made after balancing the overall national land-use needs. It was also commented that Senoko was largely not natural based on its history. Dr Ho then called for a compromise to have 'one large, integrated green area at the proposed nature park, instead of small and scattered, non-ecological green areas.

Nature can co-exist with development

Letter by Dr Ho Hua Chew of Nature Society (Singapore) on The Straits Times, 28 March 1994 (Source: NewspaperSG)

Nature conservation: Govt taking balanced approach

Letter by Ms Rubinah Karyeo for Permanent Secretary, Ministry of National Development on The Straits Times, 13 April 1994 (Source: NewspaperSG)

Growth and nature conservation: Why can't there be compromise?

Letter by Dr Ho Hua Chew of Nature Society (Singapore) on The Straits Times, 19 April 1994 (Source: NewspaperSG)



Forming the Friends of Senoko

On 24 May 1994, Friends of Senoko was formed. While most were members of NSS, this group was formed out of personal capacity.

Many high profile public figures and professional, such as law professor Lye Lin Heng, architect Robert Powell, playwright Kuo Pao Kun, urban specialist Malone-Lee Lai Choo, NUS lecturer Lily Kong, artist Susie Lingham, NMP Kanwaljit Soin, lecturer and author Ivan Polunin, biology professor Peter Ng, law professor Koh Kheng Lian, architect Tay Kheng Soon, winner of 1994 Woman of the Year award and chairman of the National Book Development Council Mrs Hedwig Anuar etc, were recruited as representatives/supporters of the 'The Friends of Senoko'.

ſ	Jan -
	Friends of Senoko
-	Declaration of Commitment as Representatives
1	We, the undersigned, agree to the following:
	1. We agree to be representatives of the Friends of Senoko.
	We agree that the signatures in support of the appeal are to be sought from friends, sympathisers, supporters and any members of the public.
	3. We agree that the appeal with the supporting signatures is to be sent to the Minister of National Development with copies to the Prime Minister and perhaps the President.
2	4. We agree that the appeal is to be made public through the relevant mass media when it is submitted to the Minister of National Development. The total number of signatures obtained is also to be made public.
	5. We agree that our names in our personal capacity can be cited to promote the appeal to any potential signatories (e.g. cited in promotional leaflets).
	6. We agree that our names in our personal capacity can be cited in the covering letter of the appeal to be sent to the relevant authorities. (Representatives may of course withdraw from such
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Declaration of commitment as the Friends of Senoko (Source: Nature Society Singapore)





Falling in love with

16 Nature Watch /April-Jone 10

The news that Senoko — a premier birdwatching site - would not be preserved as a nature reserve was met with disbelief by Singapore birdwatchers, not least among them LIM KIM SENG. This engineer recalls the first visit be and his brother made to the area more than 18 years ago.

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ove-lineo build search uge brackish ponds. In Chuah and I soon regre ig in shorts. The dense gro -hollies with their prickly sp



clump of Nipab Palm stands in the centre of th ing, its fruit, attap chi, is edib

18 Nature Watch /April-June 1994

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 a. Common Sandpiper.
 We turned back at the end of the bund, which was marked by a clump of nipah. It was getting warms and we were soaked with perspiration. I was not bothered despite getting my feet all muddy and scatched by sea-holies.
 I could tell thar my bracher was eniop-ing hinself throoughly too. Our bird last for the day was 30 species.
 This was the beginning of my 18-year romance with Senook and her wonderful birds. My bracher and 1 went to Senoko regulariy after that November morning, sometimes with our schoolmates, bracher and coussins but mostly on our own.

ACUND THE PONDS Serokio in the late '70s was made up of a aerise of brackish praxm ponds surrounded by maure man-groves, mostly apr-api and buna-buna, which also ochet the upper reaches of the Sungei Senbawang. This core was bordered by culti-vation, mostly coconut groves and fruit orchards, to the vest of the river. South of the ponds were some fresh-like the Soon Hock and other grass



nigrant Marsb Sandpiper origina from Central Asia

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Nature Watch /April-June 1994 19

Nature Watch on Senoko, dated April - June 1994 (Source: Nature Society Singapore)



grew to 78 in 1977; 162 in 1986 until passage mi 192 today. It includes 20 locally en-dangered birds and two internation-ally threatened species — the Chinese Egret and Asian Dowitcher.

NG FINDS

ch that we visited nonth to monito irds. We made r n in the early ye tg records of our isitor re regula ilonor in Singa-ularly. Usu-on a dead ed he

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of the Grey rons gradually led us to be be breeding for

y could be breeding for in Singapore. , we found out later, was water marsh habitat cre-mming of the Kranji and and to mbe memoria

st rivers to make reservoirs, another seven years before our first Purple Heron's nest, o. By this time, I had also d that these herons were a flight route straggling the coastline, stratching from Goast to Changi, to feed, breed. I realised that pro-f the sites in this "northern vould be vital to the long-vital of the large herons in ".

e copes, giving the to out many seals featured in our study. Son Caye. ed to know which shorebieds enoke and for how long We KISA AND HISS ENCOUNTERS Senoko is also memorable to in other ways. In 1979, while tran

20 Nature Watch /A

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THE CHANGING FACE OF forest was cleared for concrete bank River flow was obstructed for a yea

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1983: Mangrove area at the back

SEN(



NATURE'S CHILD

Mid-1987: Senoko has the greatest number of whistling-ducks ever recorded in Singapore, with the biggest flock of 107 recorded in June. Spotsmen also made the discovery and preved on the ducks with their shor-guns. By August, the ducks were gone. Late 1987: Dam reopened.

Swamphen, paintedsnipe and crakes disappeared, replaced by gerets, sand-pipers and plovers, birds of the man-groves and brackish ponds. The man-groves took a much longer time to recover.

1990: 1 wrote a conservation

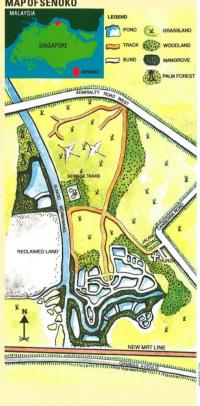
19900: 1 twote a conservation proposal for Senoka in view of its blid diversity, unparalleled in Singapore, its viable mangrove ecosystem and intar riverine forest. The total area proposed was 120 ha. The landmark Master Plan for the Gonservation of Nature in Singapore rated Senoko as one of the 'five-stat' sites in Singapore. The Urban Redevelopment Authority, the chief land-use planner, embraced it in its concept Plan.

Conceptratin. 1991: The Mass Rapid Transit's proposed norhern line was changed to avoid cutting through Senoko. A proposal was thrown up for NSS to manage Senoko Nature Reserve. Most of the western section of the Sungei Senohowang was cleared to make way for Woodlands Industrial Park. Apart from the loss of cover, the cleanarce also frightered off the birds feeding at the ponds and led to severe ension of topsoil and heavy siluation in the river.

1992: Building of a highway (Gambas Avenue) and the northern MRT line on Senoko's southern pe-njphery affected bird population and diversity.

1993: The Government announced that Senoko would not be one of the 19 nature areas in Singapore. — *Lim Kim Seng*





Nature Watch on Senoko, dated April - June 1994 (Source: Nature Society Singapore)

Dristaceans and other small invertebrates exposed in the organic rich mud of mangrove swamps during low tide are food for many birds

1983: Mangrove area at the back of the minir ponds, near the easer bank of the river, cleared and the river, cleared and the river, cleared and the river, cleared and the river area for many services of the river easer back. But these back but these backs and the birds came back. But these backs are different from the original ones. The large herons came back. But these reads the back back these backs are different from the original ones. The large herons came back. But these reads the back back these area for an exceeded by the second the back back these reads the reads the back back these reads the reads

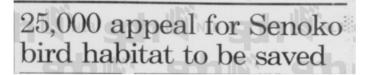
River flow was obstructed for a year. Denied any replenisitment by the river and aided by a dry spell, the brackish ponds dried up within three months, killing all aquatic organisms. In the hot sun, the exposed pond-beds became dry and hard enough to walk on.



The Petition

The Friends of Senoko conducted and coordinated a petition on a national level. The petition called for 70 hectares, or 40% of the 168 hectares of Senoko to be kept as a nature park.

The petition obtained more than 25,000 signatures to retain Senoko as a bird sanctuary. Volunteers went to public park, shopping area, libraries, months were spent to get the physical signatures. A copy was also sent to the Prime Minister Office. A collection of 25,000 signatures was regarded as a tremendous collection. It was indicative of a very significantly strong support for nature conservation at that time, given that the campaign was conducted on the ground without the aid of the social/digital media.



The Straits Times, 22 October 1994 (Source: NewspaperSG)

ferd to NSS members

Save Senoko Signature Campaign

Dear NSS Member.

A group of people, comprising some NSS members in their own personal capacity together with some members of other NGOs and the public, has mounted a signature campaign to save the core areas of Senoko, as proposed by the Nature Society. This is in response to the invitation announced in Parliament by the Minister of National Development (The Straits Times, March 19, 1994).

Senoko as you know is a 5-star site in the Nature Society's Master Plan and is also designated a "nature park" cum "bird sanctuary" in the URA Master Plan. It is the richest bird site in Singapore in terms of the number of species recorded. It has also a viable patch of riverine palm forest, the last of its kind outside the Central Catchment Area. The area has been a popular venue for excursions for the Nature Society and members of the public since the early 70s.

We are appealing to the relevant authorities to preserve about 70 hectares of the original habitat, constituting only about 40 of the original Nature Society's proposal. This would be a compromise and integration between nature and development at Senoko.

This is the final effort to save Senoko.

You can play your part by collecting signatures from citizens and permanent residents in Singapore on the form attached. The signatures collected will provide vital feedback to the relevant authorities for land-use planning in Senoko and other areas as well.

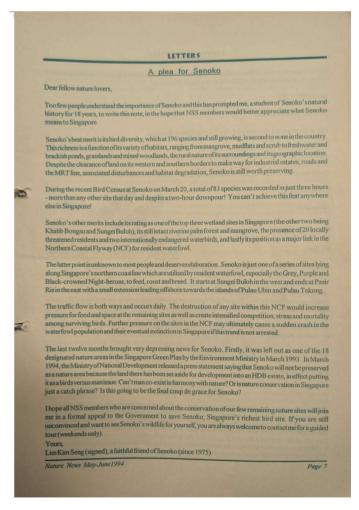
For more information on Senoko, read the article on Senoko in the latest issue of Nature Watch and the past two issues of the Nature News. The article and the accompanying beautiful photos in Nature Watch are most helpful for the purpose of getting your signatures.

We look forward to your support. Save Senoko!

Yours sincerely,

Co-ordinators

Ho Hua Chew Betty L. Khoo Evelyn Lim-Eng Lim Kim Keang Lim Kim Seng Koh Kheng Lian Amy Tsang



Plea and letters to save Senoko were sent to NSS members, dated May - June 1994 (Source: Nature Society Singapore)

It is also unfortunate that the NSS' copy of the petition cannot be found.



Outcome of Petition

On 24 October 1994, it was announced in The Straits Times that while the petition was being under studied, chances of conserving senoko were low. Nominated Member of Parliament Kanwaljit Soin urged policymakers to consider both the needs of the environment and the economic development. She also argued that the 70 hectares site requested would only support 5,000 flats, and not the 17,000 flats given by MND.



On the same day, NSS also received a letter from the Prime Minister Office, stating that it was not possible to accede to the request to conserve Senoko.

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egraphic Address: "PRIME MINISTER'S OFFICE "PRIME MINISTER'S OFFICE ISTANA ANNEXE ghore No. 7375133 EXACT A POR F				
reference: quote:	PM 14/90		Dr Ho Hua Chew for Co-Ordinators "Friends of Senoko"	
	24 October 1994			
	for Co Ordinates		They include Sungei Buloh Nature Park, a wetland area used by birds, which was opened end last year. However, it is not possible to keep Senoko as well. The area is required for development of Sembawang New Town to meet our housing needs.	
	The Prime Minister accede to the request. Dear Dr Ho		4 The Prime Minister regrets that it is not possible to accede to the request.	
	AN APPEAL TO SAVE THE CO AS A NATURE PARK	RE AREAS OF SENOKO dated 10 October 1994.	Yours sincerely Wong CHOOI SEN SECRETARY TO PRIME MINISTER	
	Development has to take a bal economic needs of the country do not have the luxury of a lar island of only 641 km ² with a	oncept Plan, the Ministry of National anced perspective of the socio- . Unlike many other countries, we ge expanse of land. We are a small very high population density. We plan our landuse to satisfy all our		
	identified areas for nature cons Green Plan, 19 nature areas, v	oes not mean that we have not ervation. Under the Singapore hich represent a significant s in Singapore, have been identified.		
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Letter from the Prime Minister Office, dated 24 October 1994 (Source: Nature Society Singapore)



On 12 November 1994, it was officially announced that the petition was being rejected by the ministry, citing that conserving the 70 hectares would mean the loss of 6,000 flats and 20 hectares of industrial land. The MND spokesperson also explained that the decision was made after consulting a work group made up of representatives from both public and private sectors.



NSS launched an appeal to keep Senoko over the next few months, but to not much avail.



Dr Ho's letter to The Straits Times as a Friend of Senoko, 16 November 1994 (Source: NewspaperSG)



Last Bid of Appeal

A letter was also written to the Istana on 21 November 1994, enclosing the petition containing 25,000 signatures, after "the invitation of the acting MND Minister". It also mentioned that preserving Senoko would be an important contribution to the 1992 UN Biodiversity Convention of Nature and Natural Resources. It appealed for landfill work to be stopped and offered to conduct a site visit to showcase the value of the place.



The President of Singapore The Istana

THE DOUGH THE LUNAPOPE SOL BOOM

21st November 1994

Dear Mr. President,

Reference: An Appeal to Save the Core Areas of the Senoko Bird Sanctuary as a Nature Park

We, the friends of Senoko, hereby appeal to you as the head of the nation to save the core areas of the Senoko Bird Sanctuary as a nature park. Enclosed is the document containing 25000 signatures together with the list of representatives.

As you can see from this document, an appeal on this matter was earlier made to the Prime Minister, but it was not acceded to by him. The letter stating the Prime Minister's position is attached.

The support given by 25000 people from all walks of life for a bird sanctuary is a highly significant event. Nature conservation is no longer just the concern of a special interest group, but of the people at large.

group, but of the people at large. The 25000 signatures are a response to the invitation of the Acting MND Minister that if he can be given a "petition to take 17000 applications of upgraders from (his) waiting list, then we will keep the Senoko land and keep it for the birds" (The Straits Times, 19th March 1994). This was a firm promise by the Minister. Since only a few thousand potential upgraders would be affected by preserving the core areas, (as stated by the Environment Minister, Mr. Mah Bow Tan in The Straits Times', dated 6th November 1994), the situation is surely not dire. "Whatever plan that is to be finalised will only be implemented "over the next 5 to 10 years", as stated by the MND Acting Minister (in The Straits Times, 24th October 1994).

We are not happy that there is no **Development Guide Plan** feedback and dialogue session for such a controversial area, as there was for Simpang and other areas. We would like to see more openness about the plan for this area. We are also not happy that there is no Environmental Impact Assessment for an area so wellknown for its high wildlife value. Here in fact is a challenge for planners to arrive at a more optimum plan that will cater to a broader range of legitimate needs. Plans and proposals from non-government architects and land-use planners should be invited so that a wider net is cast for ideas and perspective to resolve the issue.

Contrary to the claim that it was "never a traditional nature area", Senoko was already a venue for birdwatching

excursions for the Nature Society and members of the public as early as the 70s. The core areas of the sanctuary, consisting mainly of tidal ponds and the original coastal vegetation, are more or less untouched by reclamation.

more or less untouched by reclamation. Senoko is one of the top three remaining migratory wadingbird sites in Singapore. Preserving it would be an important contribution to the 1992 UN Bio-Diversity Convention and the 1995 Asean Agreement on the Conservation of Nature and Natural Resources (see Article 13 of the document attached), to both of which Singapore is a signatory. Through reclamation, the feeding grounds for these migratory waders are now drastically curtailed. Sungei Buloh and Khatib Bongsu, both protected wading-bird sites, comes to only about 120 hectares, which is about 4 % of the estimated total of 3000 hectares for protected "nature areas" ---an allocation shockingly below that given to the belukar habitat, which is of far less wildlife diversity. It is sad and ironical that Senoko be completely sacrificed when many areas of far less, etc., are protected as "nature areas" instead.

It is not sound conservation policy but or trust all your eggs in one basket. If the preservation of Senoko hinges upon whether it is the only place for this or that species, it will be probably too late for the species involved. Rabitat loss is the greatest threat to the extinction of species. A further reduction to the already much diminished welland habitat will critically affect many threatened species. Also, with the reclamation of the rural areas, even what were once common resident species are becoming threatened.

There is also an interesting remnant of the coastal forest, consisting of palms, pandanus, rengas, mangroves, etc.

Senoko is not only for the birds --- it has scientificeducational, aesthetic, cultural and recreational value. Many signatories have expressed the following sentiments and reasons for their support:

 Given that housing and employment needs are no longer pressing, more could be done to conserve our natural environment.

Given that nature appreciation is a growing trend here as well as in other countries, the demand for more nature areas will increase in the future.

3. Senoko can also serves as a green lung and alternative area for recreation of a quieter sort, such as contemplation, peaceful exercise, quiet stroll, etc. It also provides a sense of space for all Singaporeans. Public parks will not do as they are usually very crowed and noisy on week-ends.

4. The landscape of ponds, mangroves and woods at Senoko has scenic value and adds to the overall beauty of the Singapore's physical environment. This rural landscape is getting rare as development speeds up.

Pages 1 and 2 of the letter from Friends of Senoko to Istana on 21 November 1994 (Source: Nature Society Singapore)

Our Conservation Story Senoko



5. Preserving Senoko with the traditional aqua-culture ponds and activity serves also to keep intact a part of our cultural heritage. From a broader perspective, the resettled farmers' roots to the land and to the nation would not then be completely erased. Some representatives have frequently encountered ex-farmers and their families visiting or having picnics at their abandoned farmlands on Sundays. These people have sentimental ties to the rural landscape and would also, together with other Singaporeans, appreciate that some of these places be preserved.

The diversity of needs that Senoko can promote, now and in the future, are important enough to demand its immediate protection before it is too late. Senoko will contribute significantly to making Singapore a model green city.

At the moment, land-fill work is encroaching rapidly the core areas of the sanctuary. We would like to request that the land-fill work be stopped while this appeal is under your consideration.

We will happy to show you the sights at Senoko so that you can have a better picture of the value of the sanctuary.

Thank you.

- -

Yours sincerely,
Aton.
Ho Hua Chew
f."The Friends of Senoko"
Co-ordinators Ho Hua Chew (Tel. 7726098)
Evelyn Eng-Lim Koh Kheng Lian (Tel. 7723607)
Betty L. Khoo
Lim Kim Keang
Lim Kim Seng
Tan Hang Chong Amy Tsang
Sunny Yeo
builty 100

Mailing Address: c/o 11 Marigold Drive Singapore 2057

Attachments to this letter:

- Copy of Signature Document with 25000 Signatures.
 Letter from the Prime Minister.
 Conservation Proposal for Senoko (Malayan Nature Society, S'pore Branch).
 The Nature Society's Feedback on the Singapore Green Plan.
 Asean Agreement on the Conservation of Nature and Natural Resources.
 The Straits Times' Reports for 24th Oct. 1994 & 6th Nov.1994

Page 3 of the letter from Friends of Senoko to Istana on 21 November 1994 (Source: Nature Society Singapore)



On 12 December 1994, the Istana replied, stating that they were unable to accede to the request made.

Istana 27/02/007



ISTANA SINGAPORE

12 December 94

Dr Ho Hua Chew f. "Friends of Senoko" 11 Marigold Drive Singapore 2057

Dear Dr Ho



AN APPEAL TO SAVE THE CORE AREAS OF SENOKO AS A NATURE PARK

I refer to your letter dated 21 Nov 94 to the President.

2. Under the Green Plan, the Government has set aside 19 nature areas covering 5% of the land area of Singapore for nature conservation. Considering our limited land, this is significant testimony to the Government's commitment to nature and biodiversity in Singapore. The 19 nature areas represent a good cross-section of the natural habitats of Singapore. They include Sungei Buloh and Khatib Bongsu, which are wetland areas similar to Senoko.

3. The need for housing now may not be as acute as it was 30 years ago but it is still a pressing need for our people. There are more that 100,000 applicants waiting for an HDB flat and about 50% are first-timers. We cannot dismiss the housing needs of these families.

4. It would be nice if Senoko could be conserved, in addition to Sungei Buloh and Khatib Bongsu. Unfortunately, Singapore's limited land does not allow this luxury. The Government needs to develop Sembawang New Town on the site to meet out housing needs.

5. The President regrets that it is not possible to accede to the request.

Yours sincerely

C CHONG LIVE HUAT for PRINCIPAL PRIVATE SECRETARY TO THE PRESIDENT

Reply from the Istana on 12 December 1994 (Source: Nature Society Singapore)



A letter was also written by the Friends of Senoko to the Prime Minister Office on 14 December 1994.

BG (Res.) Lee Hsien Loong Deputy Prime Minister and Minister of Trade and Industry

14 December 1994

Dear BG (Res.) Lee,

Reference: An Appeal to Save 20 Hectares of Senoko On JTC Land See the sketch-map attached.

"The Friends of Senoko"

We are appealing to you as the Minister of Trade and Industry to save about 20 hectares of Senoko as a nature park.

This portion of Senoko is on the western side of Sungei Sembawang and comes under the purview of Jurong Town Corporation.

The Ministry of National Development has announced that the eastern portion of the Senoko bird sanctuary will be developed for housing. We understand the need for housing, but it would be rather sad that all of Senoko, a valuable part of our natural and cultural heritage, has to be sacrificed for development.

We are making this appeal to you under the following considerations:

The area is relatively small and would not be such dent to industrial development if it were to be preserved as a nature park. Our government's task of creating an external wing to our economy should also in a small way be directed at saving some of our natural heritage.

2. Employment needs for Singaporeans are more or less solved. This is indicated by the job-hopping trends and shortage of local workers. Preserving the 20 hectares referred to above as a nature park would benefit more Singaporeans than developing it into factories, which have to be filled up to a large extent with foreigners.

3. Preserving it as a nature park would also provide the future residents of the area with a green lung. All that is required to make the place accessible to the residents on the eastern side is to construct a bridge across Sungei Sembwang. MND has referred to the Sembwang Park as the green lung for the residents of Sembwang New Town (The Straits Times, December 11, 1994). But this hardly adequate, being only about 12.5 hectares in extent. This park is currently serving the residents in the northern Sembwang area and is already very crowded on weekends.

4. The area is beautiful and would provide a scenic backdrop to the BDB flats that are going to be built on the eastern side. Residents in the area would appreciate it to see a chunk of beautiful greenery left intact in their neighbourhood.

5. We envisage the nature park here on the model of Pasir Ris Park where a chunk of mangroves is left intact within a public park, providing a source of fascination to park users. Here, there is a large tidal pond where you can see migating wading birds. Behind this is a stretch of mangroves, and behind this, an interesting stretch of the original coastal forest —— the last of its kind along the northern coast. This coastal forest is substantial and consists mainly of a variety of palms. An educational botanic walk could be set up here.

We hope you will consider our appeal kindly. Before you make up your mind about the matter, please have a look at the place. Here we will be happy to show you around. Let us know.

Yours sincerely. Mus.

Ho Hua Chew f. "The Friends of Senoko"

Co-ordinators Ho Hua Chew Evelyn Eng-Lim (Contact: Tel. 7412036/Fax.74110871) Koh Kheng Lian Betty L. Khoo Lim Kim Keang Lim Kim Seng Tan Hang Chong Amy Tsang Sunny Yeo

Mailing Address: c/o K.K.Lim, 177 Jalan Loyang Besar, S'pore 1750

cc: Prime Minister Minister of National Development JTC

Letter from Friends of Senoko to Prime Minister Office on 14 December 1994 (Source: Nature Society Singapore)



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A reply was received from MTI on 12 January 1995, stating the land area being required for employment needs.

MTI 19/1-01 12 Jan 95



MINISTRY OF TRADE & INDUSTRY 8 Shenton Way 448-01 Tressury Building Singapore UIO 5 NIGAPORE Telephone: 2259011 Cable Add: TRADE INDUSTRY, SINGAPORE Teler: MIL 183/102

Mr Ho Hua Chew "The Friends of Senoko" c/o K.K. Lim 177 Jalan Loyang Besar Singapore 1750

Dear Mr Ho

APPEAL TO SAVE 20 HECTARES OF SENOKO ON JTC LAND

1. I refer to your letter dated 14 Dec 94 appealing to the Deputy Prime Minister to save 20 ha of bird habitat at Senoko from industrial development.

2. The Ministry of Trade and Industry has looked into your appeal with JTC. However, we regret to inform you that it is not possible to conserve the 20 ha as a nature park.

3. Demand for industrial land and factories in Singapore is very high on the back of strong economic growth. In fact, JTC has to expedite the infrastructural development at Senoko as many companies are waiting to take up land and factories there. The detailed design of the roads and other infrastructural facilities and factories have already been completed. The proposed conservation will also affect the planned regional road linking Seletar Expressway to Admiralty Road West and along which our new water pipes from Johor will be laid.

4. As you know, land in Singapore is limited. There is therefore a need to balance land use amongst competing needs such as industrial, commercial, housing and recreational. This is taken into account when the URA draws up its land use Concept Plan. If JTC gives up the 20 ha Senoko site, it will have to find a replacement site elsewhere to meet the long term projected needs for industrial land. This means that some other needs, such as housing, may have to be sacrificed.

5. The Government understands the need for nature conservation. That is why habitats in Sungei Buloh and Khatib Bongsu similar to the one in Senoko have been conserved. In the Senoko/Sembawang area, adequate park land has been set aside to meet the recreational needs of future residents. There is the existing 12.5 ha Sembawang Park. In the near future, there will also be a regional park in Woodlands.

6. The employment needs of Singaporeans may have been more or less satisfied. However, we need to sustain this level of employment as companies move towards higher value-added production, which are less labour intensive. The manufacturing sector in Singapore has been and will continue to be a core engine of economic growth. To sustain if not improve our economic growth, which will benefit the whole nation, we will need to keep the sector's share of Singapore's Gross Domestic Product and employment at more than 25%. This means that we will need to have, amongst other things, an adequate supply of industrial facilities to undertake manufacturing activities. This is particularly so in the face of strong regional competition for investment.

7. We hope that Friends of Senoko understands the difficulty of conserving the 20 ha Senoko site in view of the need to balance nature conservation with competing needs like industrial development in land scarce Singapore.

Yours sincerely

Choo Whatt Bin for Permanent Secretary

Reply, from MTI, to the 14 December 1994 letter to PMO (Source: Nature Society Singapore)



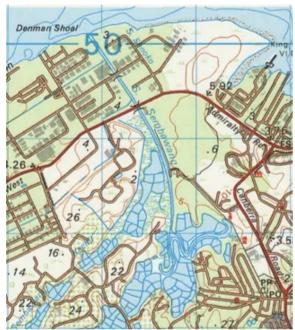


Outcome

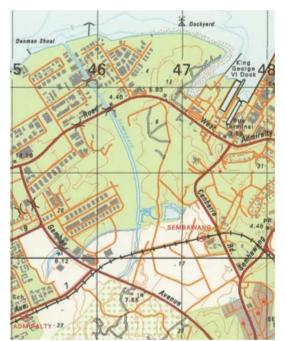
On 11 December 1994, it was announced that Senoko will be filled and leveled. While each neighbourhood would be provided a park, no parts of Senoko would be retained. Additionally, MND maintained that "Senoko was never a green lung Senoko bird sanctuary to be levelled soon

New Sembawang estates will be built there The Straits Times, 11 December 1994 (Source: NewspaperSG)

to begin with and that most of the bird species there are also found in Sungei Buloh and Khatib Bongsu, two areas which the Government has conserved. Mr Lim Kim Seng, one of the authors of the Conservation Proposal, expected up to 13% of Singapore's birdlife could be lost with the clearance of Senoko.



Senoko in the 1993 map of Singapore before clearance (Source: https://libmaps.nus.edu.sg/)



Senoko in the 1998 map of Singapore after clearance (Source: https://libmaps.nus.edu.sg/)

Senoko Today

Today, Senoko is now Woodlands East Industrial on the west of Sungei Sembawang, and Sembawang housing estate to the east of the river. The only natural space left is the Sembawang Park connector along Sungei Sembawang.

A physical petition, held over the course of a few months, that resulted in a compilation of 25,000 signatures highlighted an increasing concern for nature conservation amongst Singaporeans. While Senoko may have been lost, this campaign had been successful in waking up the need for nature amongst Singaporeans.